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1977

PVN-005-Urban-Field Notes-1977

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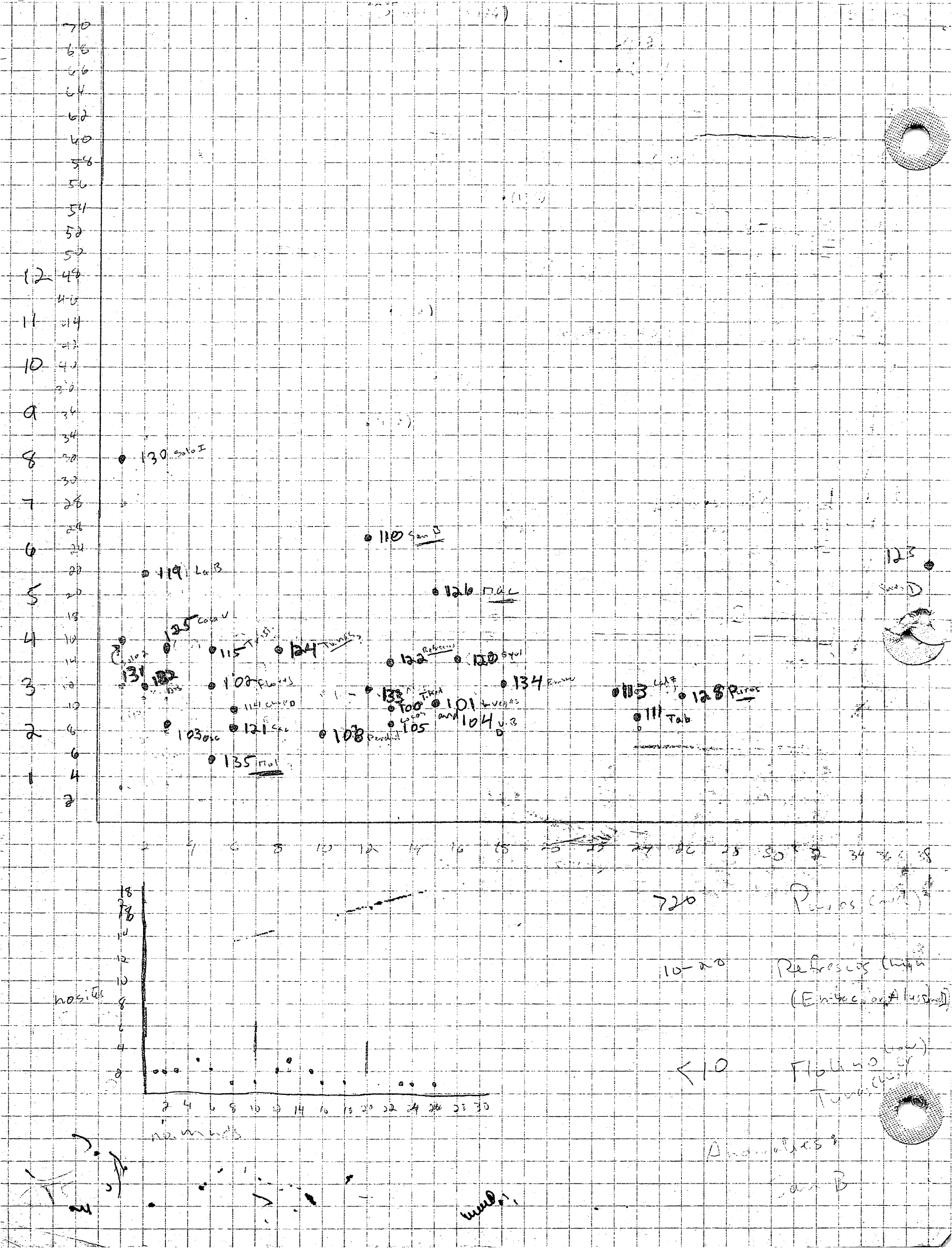
SITE OP II LOC N77-5-1

+	√ Tres Piedras	100	✓	OK
+	√ Las Vegas + Buena Vista	101	✓	OK
+	√ [redacted] Las Flores	102	✓	OK
+	– Oscuridad	103	✓	ok - foot only [illegible]
+	√ Vaca Brava	104	✓	ok - car & / Municipal
+	√ [redacted] Los Cocos	105	✓	OK by foot car?
+	√ Montezuma Grande	106		ok - car/Municipal
No	El Papayo	107	no	[redacted] car car
+	[redacted] Los Perdidos	108	✓	ok: [redacted]
No	Quebrada Tostada	109	no	d ?
+	√ San Bartolo	110	✓	OK - car & / Municipal
+	√ [redacted] Tabaquero	111	✓	various
? +	? [redacted] El Regadillo	112	no	OK
+	Calzada Escondida	113	✓	OK
+	El Chaparral	114	✓	car
+	La Tristeza	115	✓	car - w/highway
+	√ La Jamaica	116	✓	OK
J	La Seguia	117	no	by foot?
J	La Champa	118	no	by foot
+	√ La Bomba	119	✓	foot
+	√ Guaiacural	120	✓	car & foot
+	El Cacao	121	✓	car
+	√ Los Pefiscos	122		car
+	Santo Domingo	123		foot/car
+	√ Las Tunas	124	✓	car + foot combined
+	√ Casa Vieja	125	✓	car [illegible]
+	√ Macondo	126	✓	car
J	Abajo Bartolo	127	no	foot
+	Los Puertos	128	✓	car
free	[redacted] Los Perdidos Jutiapa	129	no	[redacted]
+	Solo de M I	130	✓	large mnd
+	Solo de M II	131	✓	small mnd
+	Dos de M	132	✓	—
+	[redacted] Alus I	133	✓	Alus
+	Alus II	134	✓	Embarcadero
3	+ Alus III	135		El Rotundo

4 foot low

1 car thing

1-4	5-9	10-14	15-19	20-24	25-30	>30
HHI	IIII	HHI	IIII	II	II	I
6	4	6	4	2	2	1


130 Soho I
110 Sam D
119 Lab B
126 Mac
125 Coffee
115 Tables
124 Tunes
122 Rebecca's
120 Gym
131
102
108 Flowers
134
133
Too Thin
101 Lunches
and
104 V.B
105 Cocoa
103 Bic
121 Sea
108 Pencils
135 Mail
113 Lake
128 Mirror
111 Tab
720
10-20
<10
Flowers
Tunes
Pencils
Lunches
Sam D

N 79-5-2

Valle de Naco

code	name	previous designations
HCR2	Tres Piedras	52
HCR3/A	Las Vegas. + Buena Vista (not a renaming—2 Fs numbers)	53
HCR4	Los Cocos	54
HCR5	~~Buena Vista~~ Las Flores (naming BV's number)	~~"lookout mound"/63~~
HCR6	Oscuridad site mistaken for Tres Piedras (7 VII)	Tres Piedras/60
HCR7	Vaca Brava	61/"cow mound"
HCR8	site nr. Naco-Chamelecón confluence ~~La Champa~~	66
HCR9	~~Montañas~~ Monte Grandes	64
HCR10	El Papayo	67
HCR11	~~[illegible] La Mora~~ debtad nr. giveaway Los Perdidos	Quebrada Tostada"/65
HCR12	Quebrada Tostada (SICP)	69
HCR13	San Bartolo	
HCR14	Guayaval	
HCR15	El cacao	
HCR16	Santo Domingo	
HCR17	Las Tunas	
HCR18	Casa Vieja	
HCR19	Macondo (former La Mora/QTost 225)	
HCR20	Los Puros	
~~HCR21~~	~~Los Perdidos~~	Bartolo Abajo
HCR22	Primero Solo de M	I
HCR23	segundo Solo de M	II
HCR24	Dos de M	
HCR25	La Champa	

code	name	previous designations
~~San Luis~~ deleted		
HSB2		55
HSB3	El Regadillo : general surface	56
HSB3/A	: upper slopes + hilltop	"56 arriba"
HSB3-M1	: mound 1	"mound S of SP-1"
[redacted]	[redacted]	"mound SE of SP-1"
HSB3-1	: area of SP1	"SP1-surrounding" / "cache"
HSB3-1-1	: SP1-L1 (including surface)	
HSB3-1-2	: SP1-L2	
⋮	⋮	
HSB3-1-8	: SP1-L8	"spill from pocket" / "fall from wall"
~~HSB3-1x~~	~~: SP1 extension - misc. unattributable to level~~	
HSB3-1X-1	: SP1 extension - L1	
⋮	⋮	
HSB3-1X-3	: SP1 extension - L3	
HSB3-2-1	: SP2-L1 (including surface)	
⋮	⋮	
~~HSB3~~-2-8	: SP2-L8	
HSB3-B-1	: Vault-L1	
⋮	⋮	
HSB3-B-3	: Vault-L3	
HSB4/I	La Sierra I : general surface	57I
HSB4/I-M1	: mound 1	57I-field 1-mound 1 (1.2)
⋮	⋮	
[redacted]-M20	: mound 20	57I-field 1-mound 20
[redacted]-M21	: mound 21	57I-field 2-mound 1 (2.5, 2.7)
⋮	⋮	
[redacted]-M32	: mound 32	57I-field 2-mound 12
HSB4/I/1	: area of SP1	
HSB4/I/1-1	: SP1-L1 (including surface)	
⋮	⋮	
HSB4/I/1-9	: SP1-L9	
HSB4/I/1-9a	: SP1-L9 carbon +	
-9b	: " "	
-9c	: " "	
-9d	: " "	

code	name	previous designations
HSB4/I/1-10	La Sierra I: SP1-L10	
-10a	: SP1-L10: 116cm carbon + assoc. sherds	
-10b	: " : carbon	
-10c	: " : carbon	
HSB4/I/1-11	: SP1-L11	
-11a	: SP1-L11: carbon	
-11b	: " "	
-11c	: " "	
HSB4/I/1-12	: SP1-L12	
12a	: " : carbon	
12b	: " : carbon	
HSB4/I/1-13	: SP1-L13	
HSB4/I/1-14	: SP1-L14	
HSB4/I/1-15	: SP1-L15	
-15a	: " : carbon	
-15b	: " : "	
-15c	: " : "	
-15d	: " : "	
-15e	: " : "	
HSB4/I/1-16	: SP1-L16	
⋮	⋮	
HSB4/I/1-23	: SP1-L23	
HSB4/I/2-1	: SP2-L1 (including surface)	
⋮	⋮	
HSB4/I/2-4	: SP2-L4	
-4a	: SP2-L4, carbon + sherds	
-4b	: " , "	
-4c	: " , "	
-4d	: " , carbon	
-4e	: " , "	
-4f	: " , "	
..B4/I/2-5	: SP2-L5	
-5a	: " , carbon	
-5b	: " , "	
HSB4/I/2-6	: SP2-L6	
HSB4/I/2-7	: SP2-L7	

code	name / description	previous designations
HSB4/I/3-1	La Sierra I: SP3-L1 (includes surface)	[redacted]
⋮	⋮	
HSB4/I/3-10	La Sierra I: SP3-L10	
HSB4/II	La Sierra II: general surface	57 II
HSB4/II-M1	: mound 1	
⋮	⋮	
[redacted]-M15	: mound 15	
HSB4/III	La Sierra III: general surface	57 III
HSB4/III-HPA	: huaqueros' pit A	57 III Looters' pit A; solid earth; horiz. stratig.; talus
HPB	: huaqueros' pit B	57 III Looters' pit B; pit w/ vertical walls
HPC	: huaqueros' pit C	57 III Looters' pit C; right angle trenches; hot dog pit
HPD	: huaqueros' pit D	57 III Looters pit 3; scarped pit S of central plaza
HPE	: huaqueros' pit E	57 III Looters' pit 1
HPF	: huaqueros' pit F	57 III Looters pit 2
HSB4/IV	La Sierra IV	57 IV
HSB4/V	La Sierra V	57 V
HSB5 / M15 M1 M15-HP A, B	~~Calzada Escondida~~ Descalzada	"Repolillo 2" / 62
HSB6	El Chaparral A-only 1/3 - mounds E of 1st El Ch site	58
HSB7	La Tristeza	59 [59F1; 7299 U5]
HSB8	La Segoria ~~[illegible]~~ site on SB bank of R. Naco about opposite Montañas Grandes. 68	
HSB 9	La Jamaica	
HSB 10	La Bomba	
HSB 11	Los Refrescos	HSB 14 ~~Encarcadora~~ (Alus II)
~~HSB 12~~	~~Escondido~~	HSB 15 El Mogno (Alus III)
HSB 13	~~Tres Calzada~~ Militar	
	Alusaratora (Alus II	

Valle de Naco: miscellaneous

possible sites -- scattered surface artifacts, sites not properly surveyed or localized

code	name (previous designation)
HSBA	lumped survey square shards, (7197-U8)
HCRA	Manchaguala stream bed
~~HCRB~~	~~site seen but not surveyed, 7 VII 75, downstream from Tres Piedras~~
HCRB	misc. mounds on Rancho Manacal (A-Manacal F1; B-Manacal F2)
HCRC	lumped survey square shards, (7703-U7)

↓

Solo de Manaca I and II

Dos de Manacal

code	name	previous designations
H~~S~~B/CR1	Naco : general surface	51
HSB/CR1/A	: group on SB side	51A - F5
HSB/CR1/B	: group on SB side	51A - 53
HSB/CR1/C	: SKP's centro	"site NE of Naco"
HSB/CR1/D	: NE group	"riverbank concentration of sherds E"
HSB/CR1/E	: SB bank sherd conc.	"site B (Naco)"
HSB/CR1/F	: large mounds on SB bank	"new site SW of Naco"
HSB/CR1/G	:	"group of ~6 mounds across highway from Naco"
HSB/CR1/H	: group 5 of carretera	"Naco NE (Las Tinas)"
HSB/CR1/I	: NE area (Quebrada las Tinas)	
(HSB/CR1/M2+14	: mounds 2 & 14, road cut)	

Survey Lot Summary

Op #	Lot	Description
123A	- 1	Washout from Santo Domingo site onto road leading to Lofradia
123A	- 2	From ~~mound~~ Eastern mound at Santo Domingo material washing out of mound
122A	- 1	Los Refrescos, general surface material
121A	- 1	El Cacao, general surface material
116A	- 1	La Jamaica, general surface material
101A	- 1	Las Vegas, general surface, collected 1975 and 1979
126A	- 1	Macondo, general surface
105A	- 1	Los Cocos, general surface
104A	- 1	Vaca Brava, general surface Str. 1
104A	- 2	Vaca Brava, general surface, wash near grp C
107A	- 1	Los Puros gen. surf.
123B	1 thru	Test trench B
123C	1 thru	Str. trench
123D	1	Str. S. portion trench
123E	1 & 2	Str summit portion trench
106A	1	Monte Grande, Looter's pit near Str. 2 E
106A	2	Monte Grande, [illegible] Str. 12
120A	-	Los Pericos [illegible]

9 Jun 77
1 5

N77-5-31

Tracing Agua Sucia to Chamelecon:

Path to east of highway, across ridge with houses, path trends SE for c. 200 m, then turns to 140° for c. 60 m downhill. Agua Sucia runs along S base of hill, course is 75°.

Stream wanders, but bends (at unspecified point) to azimuth of 115°

Following stream c. 150 m. along 115°, encounter bend, azimuth 45°; stream well confined between 2–4 m high banks

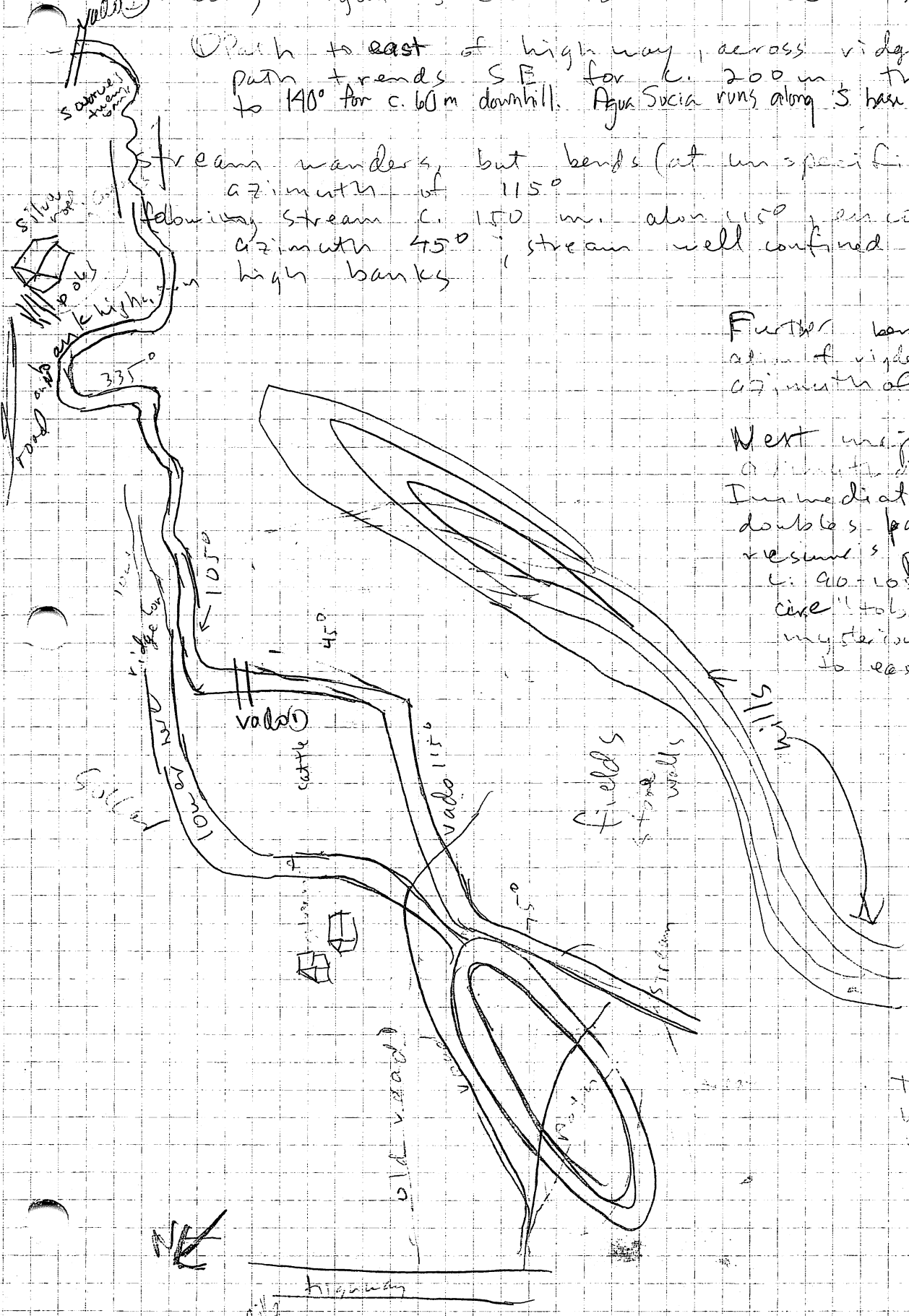
Further bend at ridge (path on side of ridge (houses)) at azimuth of 105°

Next major bend puts [illegible]

Immediately after river doubles back on self, resuming previous azimuth c. 90–105° – NE of bare cone "tobacco" barns and mysterious poles, on road to east of Regadillo.

After S bend, the north end of large hills, stream does [illegible] in meadow between hills & general azimuth is 115°

At road ⑦ Sucia [illegible] There is an old bridge not in use, and a dirt road, but no water



not to scale

9 Junio 1977

5

Geological notes: the ridge over which we walked from the highway to the stream seems composed of a composite / conglomerate limestone - inclusions were clearly visible - similar to that at El Regadillo; But an unusual feature exists: areas of 0.5 m² or more covered with small particles of what must be mica, arranged in small drifts on the surface, and looking like piles of fish scales and sequins. N. origin for these could be determined. As long as the stream ran near to the ridge the limestone-like rock was visible. In addition, it seems to comprise the ridge to the south of the stream ("fields and stone walls" on sketch map). The banks of the stream are quite deeply cut, and the low volume of water currently observable indicates that the course of the Agua Sucia has been well defined for some time. An interesting and inexplicable feature is the disappearance of the water about 1/2 to 3/5 of the way from highway to Chamelecon. Henderson has speculated that alluvium is deep enough that the stream cannot flow freely; observation lends some credence to the idea. As the area of stoney ridges is left, the amount of silt in the stream bed and adjacent banks increases, and the water flow decreases. The floor of the water course remains damp even near the La Sierra hacienda houses, but 2 yrs previously, during the drought, I cannot recall any dampness there, and Don Francisco complained of how the stream ran freely until 5 or 6 years before.

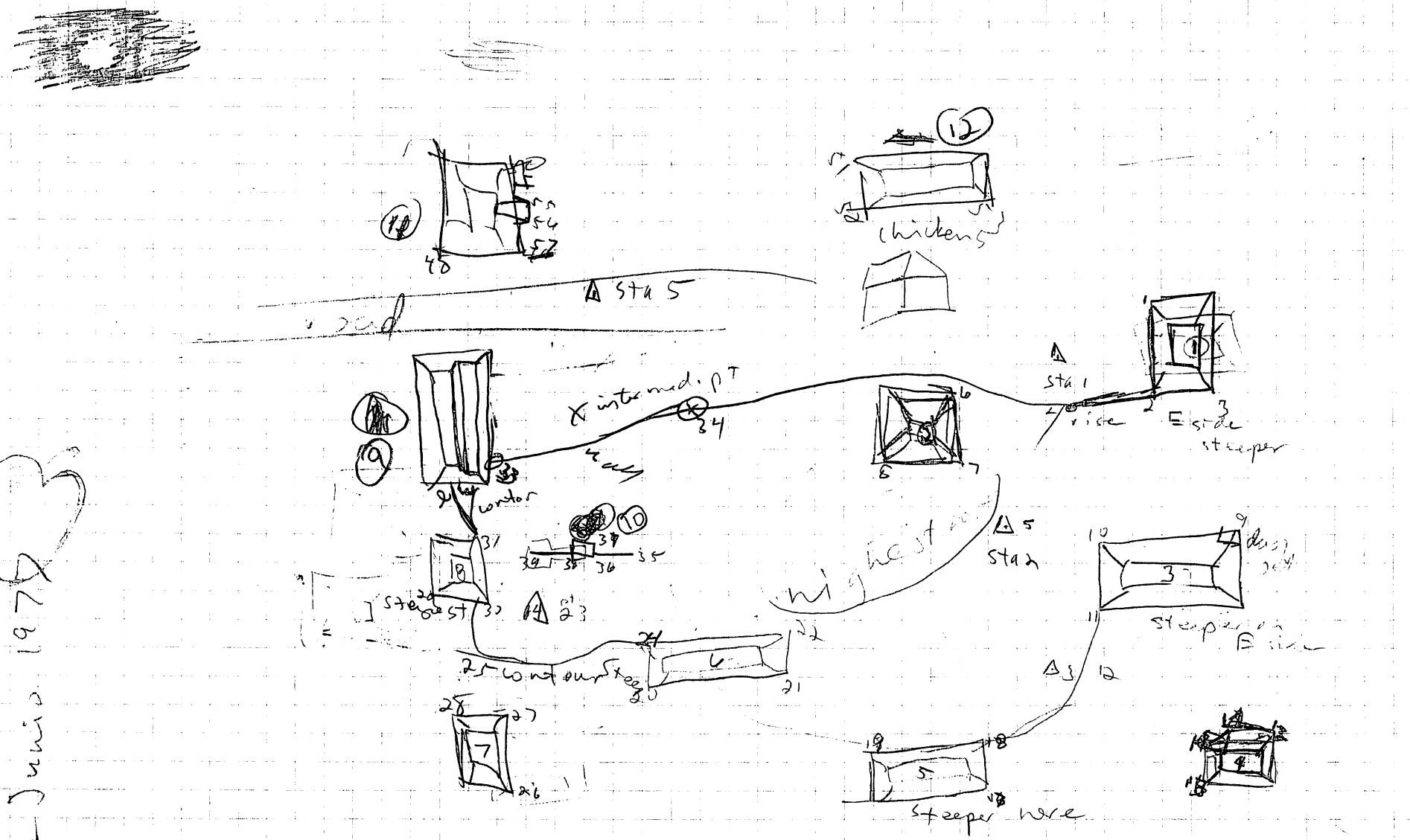
Despite an error in not continuing the sketch map and azimuth readings, I believe we can conclude that the Agua Sucia's present course is the same as that on the 1:50000 map. We had been unable to locate its confluence with the Chamelecon because the map had led us to look for a running stream. But in keeping with most streams in the valley, the active flow stops about half-way from the foothills to the Chamelecon. This is probably due to a combination of factors: increasing desication, heavy silt loads from previous years, and/or some sort of geological activity resulting in a rise of the Chamelecon area of the valley

10 de Junio 1977 [15] [21]

San Bartolo — mapping data — OP110 — N77-13

	Point		Dist.	Est. Hgt.	Ind.
1-	M① SW corner	N 23°30' W	10.84	1.75	✓
2-	" SE corner	N 81° E	2.60	"	✓
3-	M① NE corner (inset)	N 61°30' E	12.70	"	✓
4-	Point on rock bench at M1 SE	S 2° E	2.30	0.30	✓
5-	Fr/sta. 1 to Sta. 2	S 20°30' E	23.20	—	✓
6-	M② NW corner	N 51°30' W	14.90	3.0	✓
7-	" NE corner	N 56° W	3.55	"	✓
8-	" SE corner	S 55° W	14.60	"	✓
9-	M③ NW corner (dug out & reconstructed)	N 30° E	22.90	2.75	✓
10-	" SW	N 88° E	1.95	"	✓
11-	" SE steeper on E side	S 66° E	16.70	"	✓
12-	Fr/sta ② to Sta ③	S 37°30' E	25.30	down .5 ft	✓
13-	M④ NW corner	N 40° E	25.60	2.25	✓
14-	" bend in W face	N 44° E	13.70	"	✓
15-	" SW corner	N 70°30' E	8.0	"	✓
16-	" SE corner	S 81°30' E	15.95	"	✓
17-	M⑤ NE corner steeper on E	S 25°30' E	15.40	2.25	✓
18-	" NW corner nat. contour runs thru	S 90°30' W	7.0	"	✓
19-	" SW corner slightly lower than W corner	S 32° W	22.90	"	✓
20-	M⑥ SE corner - steeper on S side	S 5° W	31.20	2.25	✓
21-	" NE corner 2 mon W sides over grown	S 76°30' W	13.80	"	✓
22-	" NW corner = shallowest corner	N 80°30' W	20.80	"	✓
23-	Sta ④ to sta ⑤	S 40° W	30.00	"	✓
24-	Pt on faced contour at M⑥	S 17°30' E	9.85	0.60	✓
25-	corner of faced contour	S 16°30' W	16.45	"	✓
26-	M⑦ NE corner steeper on E very shallow	S 7° E	30.45	1.75 on E	
27-	" NW corner footers pit mid	S 11°30' W	19.50	1.40 on W	
28-	" north side	S 26°30' W	27.20	✓	
29-	M⑧ SE corner steepest E side	S 44°30' W	26.20	3.0	
30-	" NE corner	S 43° W	12.25	✓	
31-	" NW corner	N 85° W	17.50	✓	
32-	Contour hill to M⑨	N 76° W	20.90	0.50	✓
33-	Wall & M⑨, N side of (optional wall)	N 50°30' W	20.60	0.50 here	
34-	Pt. N. on Wall	N 12° W	25.20	"	✓
35-	W. N end in plaza (.80-1.00 wide)	N 11°30' E	10.65	0.30	
36-	W and structure (M.10)	N 70°30' W	7.20	"	✓
37-	Str. corner, NW	N 22° W	10.10	0.50	✓
38-	W of Str S. pt	N 32°30' W	6.10	"	✓
39-	Wall S. end pt	N 71°30' W	6.90	"	✓
40-	Sta 4 to intermediate point	N 40°30' W	30.00	"	✓
41-	Sta 5 to Intermed. pt	S 34° E	11.40	"	✓
42-	M⑩ NE corner	S 26°30' E	24.50	2.0 E	
43-	" NE corner terrace	S 19°30' E	21.70	1.50 side	
44-	" NW corner terrace	S 22° W	5.60	1.00 on	
45-	" SW corner	S 34° W	4.60	✓ W	
46-	" SW corner	S 48°30' W	16.85	✓	
47-	M⑪ SE corner	S 72° W	19.30	2.75	
48-	NO NE ~~interpolated~~ corner dry	S 81° W	9.60		
49-					
50-					

51	M 12 SW corner	N	7° 30' W	20.20	✓3.35
52	" SE corner	N	44° E	10.90	✓
53	" NE corner	N	45° E	35.60	✓
54	M 12 NW corner (door)	N	49° 30' W	24.55	✓
55	" NW corner stair (door)	N	49° W	19.80	✓
56	NE corner stair	N	60° W	12.10	
57	replaces 49 NE corner	S	83° W	10.80	


sta 5
road
intermed. pt
sta 1
side
steeper
contour
sta 2
steeper
steeper here
chicken
10 de Junio 1977

Site

Site Loc. No

~~Owner~~ OP #

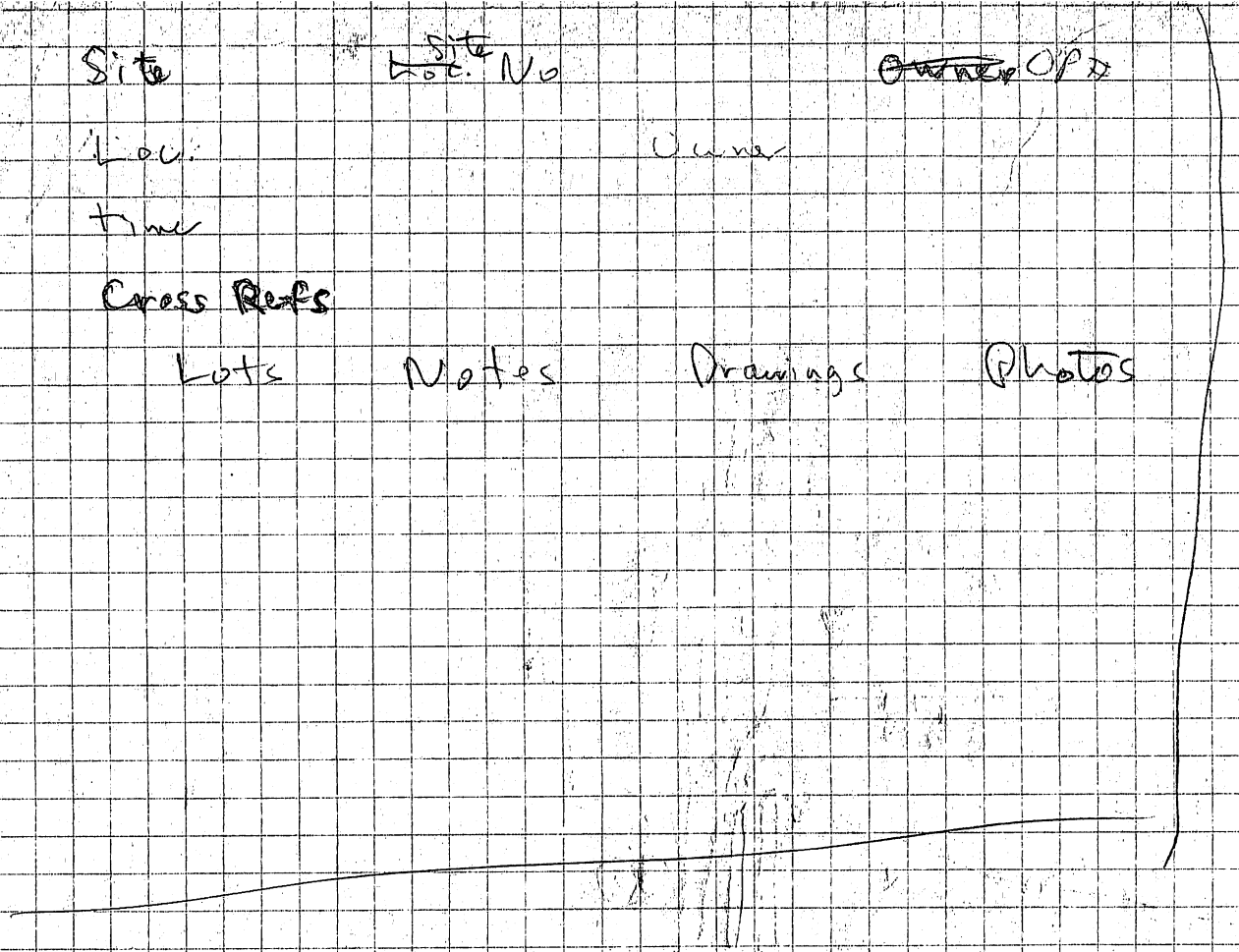
Loc.

Owner

time

Cross Refs

Lots Notes Drawings Photos



10/JUNE/1977

N77-5-15

5 21

SAN BARTOLO

LOCATED ON THE LANDS OF FINCA SAN BARTOLO, SURROUNDING THE CHICKEN HOUSE OF THAT FINCA. (THE FINCA IS NOW, APPARENTLY, OWNED BY A GROUP/COOPERATIVE OF CAMPESINOS.) TO GET THERE - GET OFF THE HIGHWAY AT NACO, FOLLOW THE MAIN ROAD THROUGH NACO, DESCENDING DOWN TOWARDS THE RIO NACO. JUST BEFORE GETTING TO THE RIVER, TURN A SHARP RIGHT, AND PASS THROUGH A WIRE METAL SWING FENCE. PROCEED ALONG THIS ROAD, (DIRT BUT FAIRLY GOOD FOR DRIVING) PASSING THE TABACCO FINCA OF NACO ON A BLUFF ON THE RIGHT. FOLLOWING THIS MAIN ROAD YOU WILL ARRIVE AT ANOTHER SWING, METAL WIRE FENCE, PASS THROUGH IT AND CONTINUE ON THE MAIN ROAD. YOU WILL PASS THROUGH THE ALDEA OF SANTA LUCIA (THERE WILL BE A RATHER PROMINENT PINK SCHOOL HOUSE ON YOUR LEFT.) AFTER WHICH YOU WILL TAKE YOUR FIRST RIGHT - A DIRT ROAD, WIDE ENOUGH FOR THE TRUCK, BUT BARELY, WHICH FOLLOWS THE FOOTHILLS. THIS ROAD IS MARKED BY THE PRESENCE OF TWO POSTS FROM A NOW FENCE-LESS GATE. FOLLOWING THIS ROAD YOU WILL PASS THROUGH ANOTHER GATE (WIRE AND POST) AND BEGIN TO EMERGE OUT INTO A SMALL POCKET VALLEY OFF THE NACO VALLEY. TAKE YOUR NEXT RIGHT AFTER THE GATE AND, WITHIN, c. 200-400m. THE GROUP SHOULD BE VISIBLE TO THE NORTH/NORTHWEST. ONE MORE SHORT RIGHT SHOULD TAKE YOU THERE.

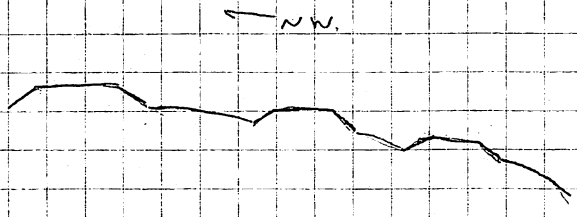
SETTING - LOCATED IN A POCKET VALLEY TO THE NORTH OF THE NACO VALLEY, SAN BARTOLO IS SITUATED ON A RELATIVELY FLAT → GENTLY SLOPING PIECE OF LAND, RIGHT UP AGAINST THE FOOTHILLS. THE RIO SAN BARTOLO IS LOCATED WITHIN c. 200-300m. TO THE NORTH (±) OF THE SITE. THIS CREEK, ACCORDING TO AN INFORMANT, RUNS 'GOOD, CLEAN' WATER AT THIS POINT, THOUGH BY THE TIME IT REACHES THE AREA OF THE HIGHWAY IT IS DRY. THE FOOTHILLS IMMEDIATELY SURROUNDING THIS GROUP SEEM TO BE DOMINATED BY PINE, AND RELATIVELY LOW GRASSES. THE SITE, ITSELF, WAS, AT THE TIME IT WAS MAPPED, COVERED IN HIGH, DENSE 'MONTE' (2nd GROWTH FOREST) AND MILPA. THE MILPA WAS NOW, AND IT WAS THIS, VISIBLE SECTION OF THE SITE WHICH WAS MAPPED (BRUNTON AND TAPE). MOST OF THE FLAT LAND EXTENDING OUT FROM SAN BARTOLO TOWARDS THE S./S.E. (TOWARDS THE CHAMELECON) SEEMS UNDER SOME FORM OF CULTIVATION.

NOTES ON THE SITE - IN ALL, 12 'MOUNDS' WERE MAPPED, ALONG WITH SEVERAL VISIBLE WALL LINES OR TERRACES. A WOMAN, SENT OFF TO SEARCH FOR OTHER STRUCTURES IN THE MONTE, CLAIMED TO HAVE LOCATED 3 MORE 'GRANDES' C. 100-200m. TO THE N.W., ALONG WITH A NUMBER OF SMALLER MOUNDS. HE REPORTED THAT NONE OF THESE MOUNDS WERE AS LARGE AS THOSE MAPPED. TIME DID NOT PERMIT OUR EXAMINING THESE STRUCTURES, AND THE VEGETATION WAS TOO HIGH TO MAP IN THE AREA OFF TO THE S./S.E. OF THE SITE WAS IN HIGH GRASS, AND NO STRUCTURES WERE NOTED IN IT (NOT WALKED, MERELY SCANNED.) THE AREA TO THE WEST OF THE SITE, (CLEARED) SHOWED NO EVIDENCE OF STRUCTURES. THE AREA TO THE N./N.E. WAS IN HIGH MONTE AND WAS NOT INVESTIGATED. A LOCAL INFORMANT SEEMED TO THINK THAT THERE WERE MOUNDS ONLY IN THE ZONE MAPPED AND TO THE NW. - NOT QUESTIONED INTENSIVELY.

A GREAT MANY COBBLES APPEAR ON THE SURFACE OF THE MOUNDS. THE SEVERAL WALL LINES VISIBLE WOULD SEEM TO INDICATE THE EXISTENCE OF THE COBBLE CONSTRUCTION NOTED ELSEWHERE IN THE VALLEY - I.E. ROUGHLY FACED COBBLES FORMING THE WALLS OF STRUCTURES. THE COBBLES WOULD SEEM TO BE MOSTLY OF A SCHISTOSE. NONE THAT, AT LEAST SUBJECTIVELY, THIS SITE WOULD SEEM

To be the most regularly arranged of all those so far visited in this valley. There would seem to be 3 tiers of structures. The lowest tier is to the southeast, and structures seem to mount steadily, gradually, to the northwest. At each of the principal rises, there would seem to be some facing with cobbles or at least part of what seems to be a natural contour. The result would seem to be three flattened levels, each supporting a number of structures, mounting progressively towards the northwest and the foothills. Off to the SE, where the site seems to stop, there would seem to be another drop off towards a somewhat flatter, apparently plaine. Note that the above-noted rises are gradual, these structures are not built largely into a hill side.

No shards or other artifacts were noted on the ground, though much of it was cleared.



Rough, schematic cross-section of San Bartolo.

N77-5-47

13 de Junio 1977

[5] II

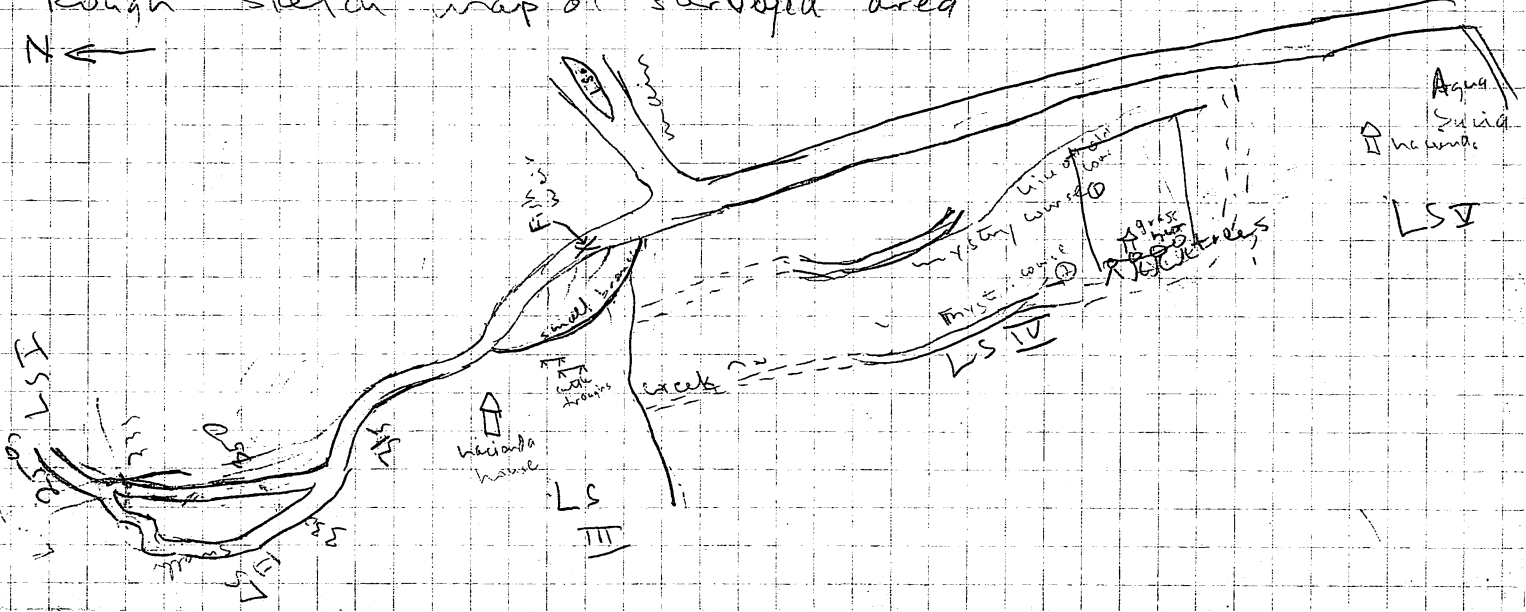
Chamelecon E of field w/ thatched cottage azimuth 335°

250-325 m to north split in river observed.
Left branch, the smaller, maintains 335° orientation
Right branch splits again in c. 150 m, approx azimuth 80°

Left branch after split → bend - az. of 315°

We began at three by following a small stream to the east. Henderson believed that it would turn west and join the channel which runs beside La Sierra I and II. So we turned S to SW looking for old river courses, such as that one by LS IV, which we knew existed. We encountered one, east of LS IV's but west of the river, which had a small amount of stagnant water. (Occasionally one could see the water move, flowing as does the river.) This, however, disappeared, and we could not determine its origin. Turning more easterly along a road coming out of the field near LS V which has a grass hut huddled along a tree line (very distinctive in the midst of so much grass) we encountered the main river course. It is approx. 75 m wide w/ depth undeterminable due to a heavy red-brown silt load. The flow was quite fast, producing noticable noise and surface ripples. Following the stream at the above azimuths, we did not encounter any branches or junctions until the major split recorded above. There, branching west from the left branch in an area of sand and cobbles, which had recently been under water judging from the mud, was a small channel. It seems likely that the stream we originally followed at LS III joins it, since the location is correct, we saw no other confluences, and the small channel had somewhat more water where it meets the river than where it leaves it.

Rough sketch map of surveyed area



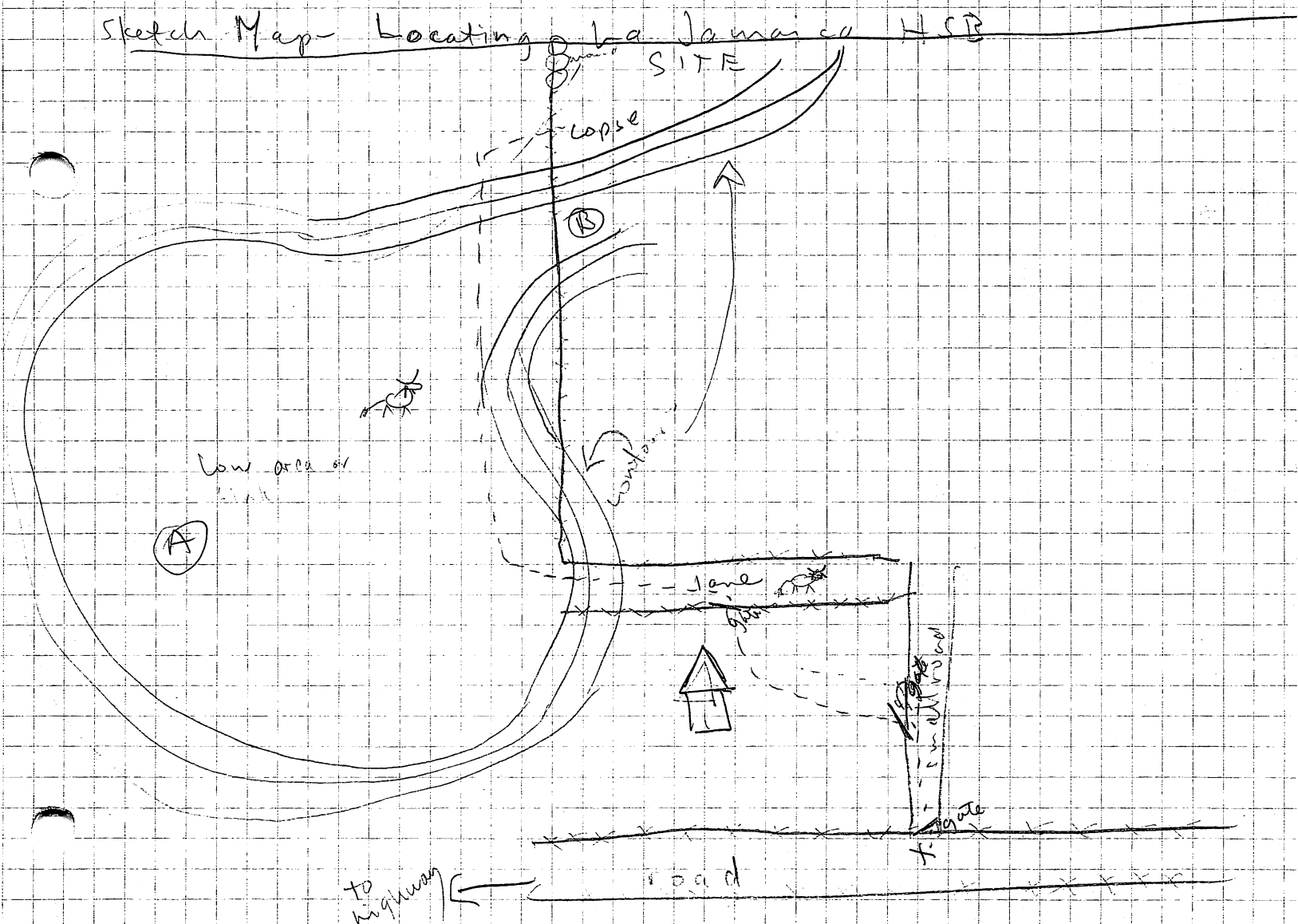
14 de Junio 1977

5

La Jamaica 3N 11G

Ed and I accompanied by Luis Nolasco, visited a site which he calls "La Jamaica", on the Finca La Bomba. FLB is the ranch between the highway and La Sierra. The site is reached by passing through the yard of the hacienda house to the north of the access road. The house is visible, being 1 km from the road, and one enters a gate in the fence bordering the access road to reach it. After going through the yard one enters a lane, often filled with cows, and turns to the west. The lane goes down hill about an 8-10 m drop off. In the drop off, turn North again following a path on the bottom of the gully, then going uphill again. About 30-50 m after regaining the height, look right, to the east, and a copse of scrub by growth will be seen. Cross the fence. Several mounds, low (c. 0.50 m) are on the north, out by the fence, and if one misses the copse the mounds there should be clear.

Sketch Map- Locating La Jamaica HCB

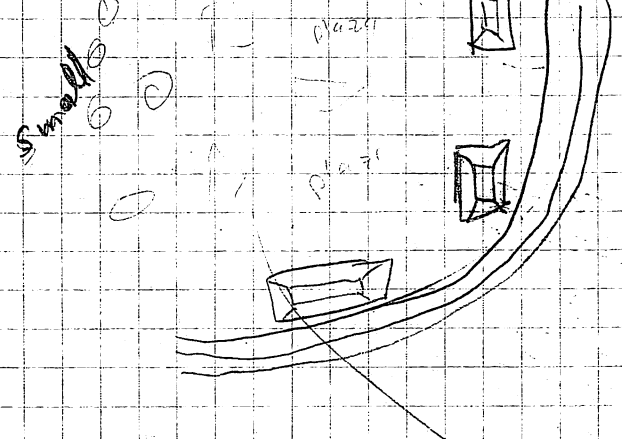


S

The site consists of 20 or more mounds, the largest of which is ca. 2.25-2.50 m, and the lower ones ca. 0.50 m. The construction is stones and dirt; no wall lines were visible. The stones are a combination of scarred cobbles and chunks of porous volcanic rock which is reminiscent of El Regadillo. A few stones were seen around fence posts, but not collected. No artifactual material was observed on the mounds themselves.

The basic layout seems to be 2 plazas, somewhat irregular in shape, with outlying small mounds arranged in no discernable fashion. The site conformed to a contour, with several of the larger mounds built right along the contours. This is in keeping with construction techniques at La Sierra. Also in keeping with La Sierra is the irregularity of the plazas.

Sketch of contours & mounds (schematic)



The vegetation is fairly heavy in the upper area and is always dense underneath through vines and trailing vines. The unwooded areas are in scrubby mounds. The mounds can be seen but the lines are not clear enough to map without bushing. We did not even attempt a sketch map for this reason. The plazas were not even visible one from the other, and many of the low mounds could be located only by walking over them. A full scale map will be made later.

A 29-5-18 A1

The geo-topographic formation indicated on the sketch map (p 58) is quite interesting. It is 8 or 10 m lower than the surrounding area & seems to have been in existence as long as the site since the contours run S and E of the site. It also looks like it might have been a body of water at one time where the contours come together (B on map) the ground is somewhat lower still and the soil is muddy. There is no surface water nearby; according to Luis, the hacienda gets its water from a well. Luis also says that one needs to drill about 150 ft to hit water.

Luis indicated a site on the south side of the road, possibly on La Bomba, which I think might be El Chapotal. This must be checked. He called it Sutiapa.

Also from Luis: the president of the San Bartolo co-op

$$
\begin{array}{r}
0.3\overline{3} \\
290\overline{)9.20} \\
\underline{8\,70} \\
50
\end{array}
$$

$$
\begin{array}{r}
1.\overline{14} \\
28\overline{)24.00} \\
\underline{28} \\
120 \\
\underline{112} \\
8
\end{array}
$$

N77-5-20

14 de Junio 1977

Alejandro "Fodo" Seranio, [illegible] "oven". The co-op is called ANASH (?), an acronym for I don't know what! Lower than San Bartolo there is a site with mounds larger than San Bartolo. It's on the Nano Tabacalera lands, owned by Antonio Paz (who owns so much, along with others of his family). He says he will obtain permission to go see it, although there should be no problem.

This morning I initiated a conversation with John on the topic of site definition. As of now, he has Naco running in an L-shape, with 3 or 4 km on each leg. This seems to me excessive: in particular, the scattered groupings along the hills to the South of Naco seem rather far flung to be agglomerated into one site. By that standard, everything on both sides of the permanent water course on Manacal should be one site. I just about believe that La Sierra I-V hangs together although Ed doesn't - but Naco is spreading too much. Of course, part of my consternation comes from a feeling that John is expanding "his" sites at the expense of "mine".

POINT	℄	DIST	ELEV

15 de Junio 1977

Teaching Mapping

The students and I are back at La Jamaica learning how to map. Things aren't going badly, but as usual one team is a bit more with it than the other. Lucio chapped a few obscure places, but I kept him only for an hour for two reasons: (1) a bit of a todo about which workman I should take; (2) the conviction that the kids should learn to cope with vegetation.

16 de Junio 1977

Photos:

1 Str. 10 frontal platform
2 Str. 10 main mound, part of platform
3 Str. 9 (w/tripod) S to right, 3 behind Str.
4 Str. 5 SW corner

Sherding: Strs. 22, 16, str. 16 area, cattle path in area of Strs. 21 and 22

Lot: 116A-1 - surface collection taken while mapping La Jamaica (mapping is sub-op A)

16 de Junio 1977 ±110 N 77-5-21

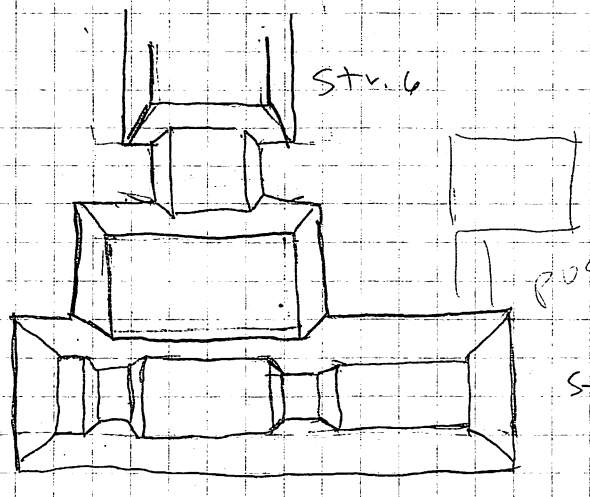
Due to a mishap - a forgotten 30m tape - mapping is less efficient today. Team 1 - Rosemary, Eric, Doug - used the compass and tape first to correct a few problems from yesterday. After that they finished the northern plaza and shot to the southern one. Independent of my decision that Team 2 should concentrate on the western part of the site, To decided to shoot to Str. 12 when they received the tape. T2 (Cynthia, Hall, Sharon) is more experienced in archeology and woodsy things, which, combined with greater attention to detail, makes them a faster more accurate mapping crew. I had decided to ask them to head into the wooded area of the city and was pleased that they decided to do that in advance of my mentioning it. T1 seems to be doing better today, but they aren't as energetic as T2 e.g. the sat around to do the data sheets. But I'm sure they'll be OK with watching and prodding.

There is a good chance that the map will be finished today, which will save time for me. Tomorrow we go to Naco for chert collection and mound reconnaissance. Sat., if this map is all done, we finish it and do the small group by the soda stand. After that I'll probably move N to the Machaquila area. Julio is supposed to ask Luis about the land between Naco and Cobradia on the W side of the highway some of which belongs to a Colonel Garcia. I would like to get permission for the land.

Two more very low, c. 30 cm. mounds were found today, bringing the total to 28. A fairly good-sized group! Strs. 5, 6, and 12 turn out to make a complex set. The sketch shows 12's N apron/platform, the 6-12 saddle and Str. 6. Str. 6 and 5 are also connected, making a closed SW corner to the plaza. But in characteristic fashion there's a mound right off Str. 12, so the plaza isn't unencumbered.

N

Sketch Strs. 6 and 12.



17 de Junio

NTB-5-22

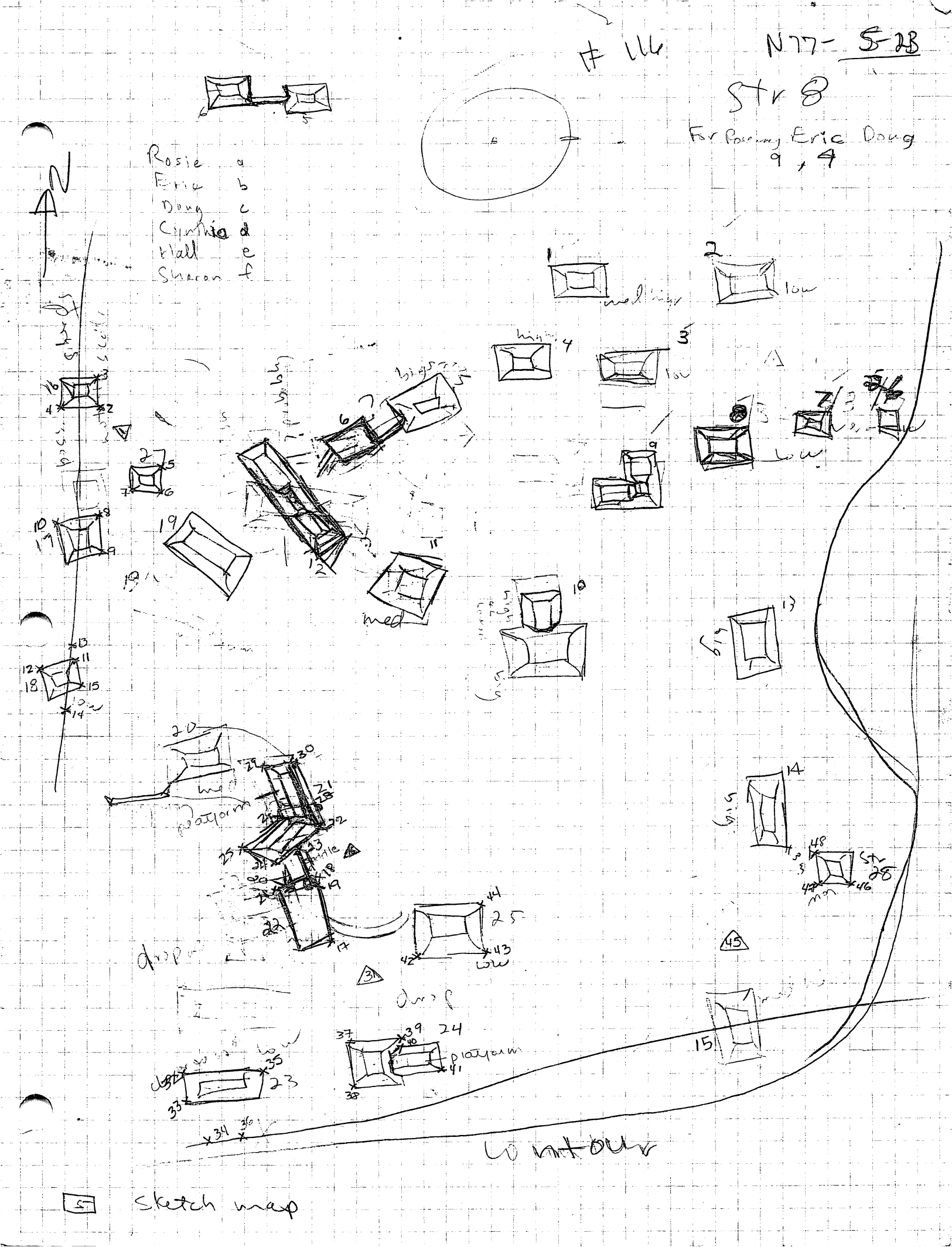
13.14 | to road
9.70 | 42+13m.
3.44

1.48
1.06
1.0
3.54
3.14
3.

9.11 or 8.11

3.78

3.44
1.24
3.78


#116
N77-S28
Str 8
For Pacing Eric Doug
9, 4
Rosie a
Eric b
Doug c
Cynthia d
Hall e
Sharon f
N
1
med high
2
low
3
low
4
high
5
6
7
8
9
low
10
11
med
12
13
14
15
16
17
18
19
20
med
platform
21
22
23
middle
24
platform
25
low
26
27
28
29
30
31
32
33
34
35
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42
43
low
44
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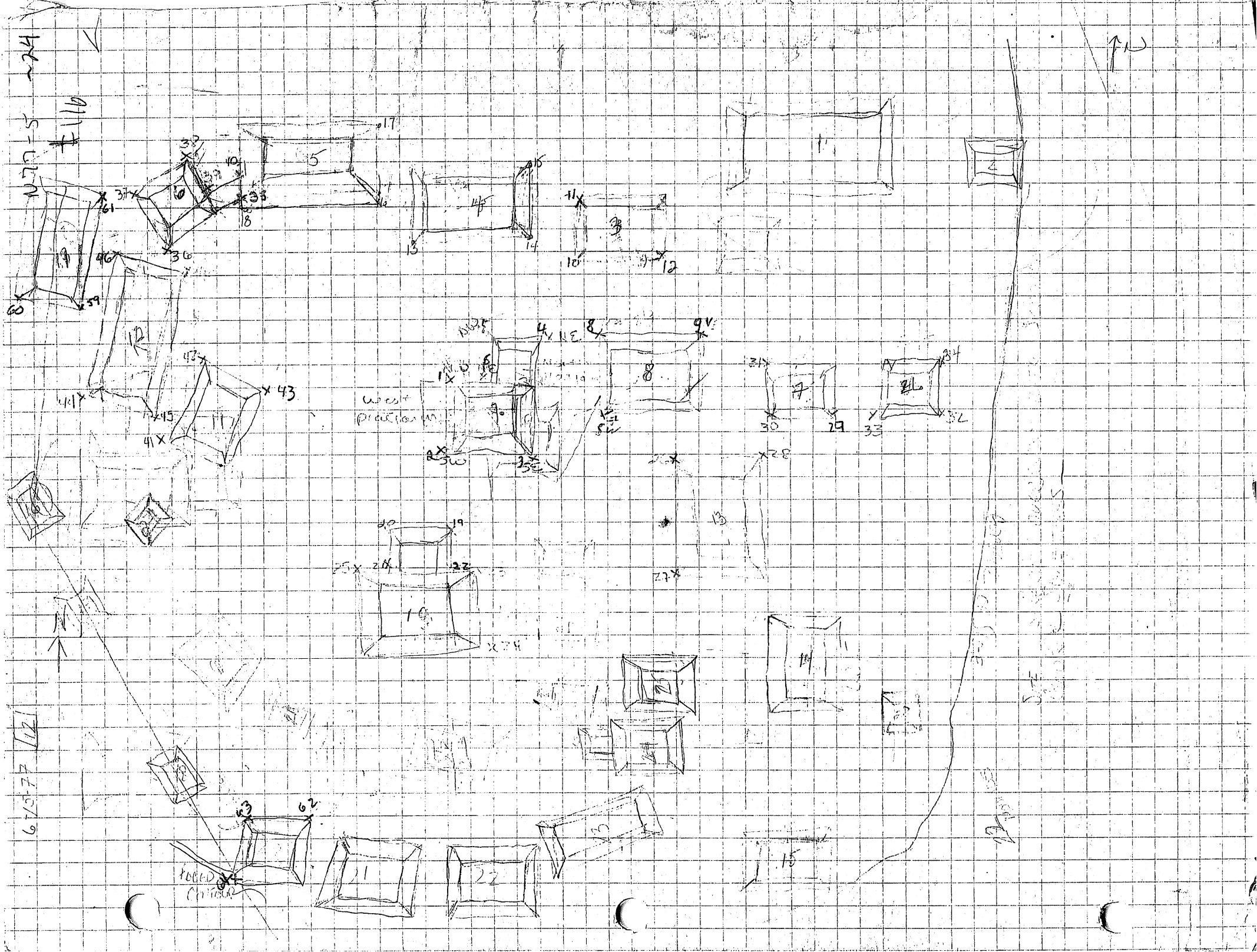
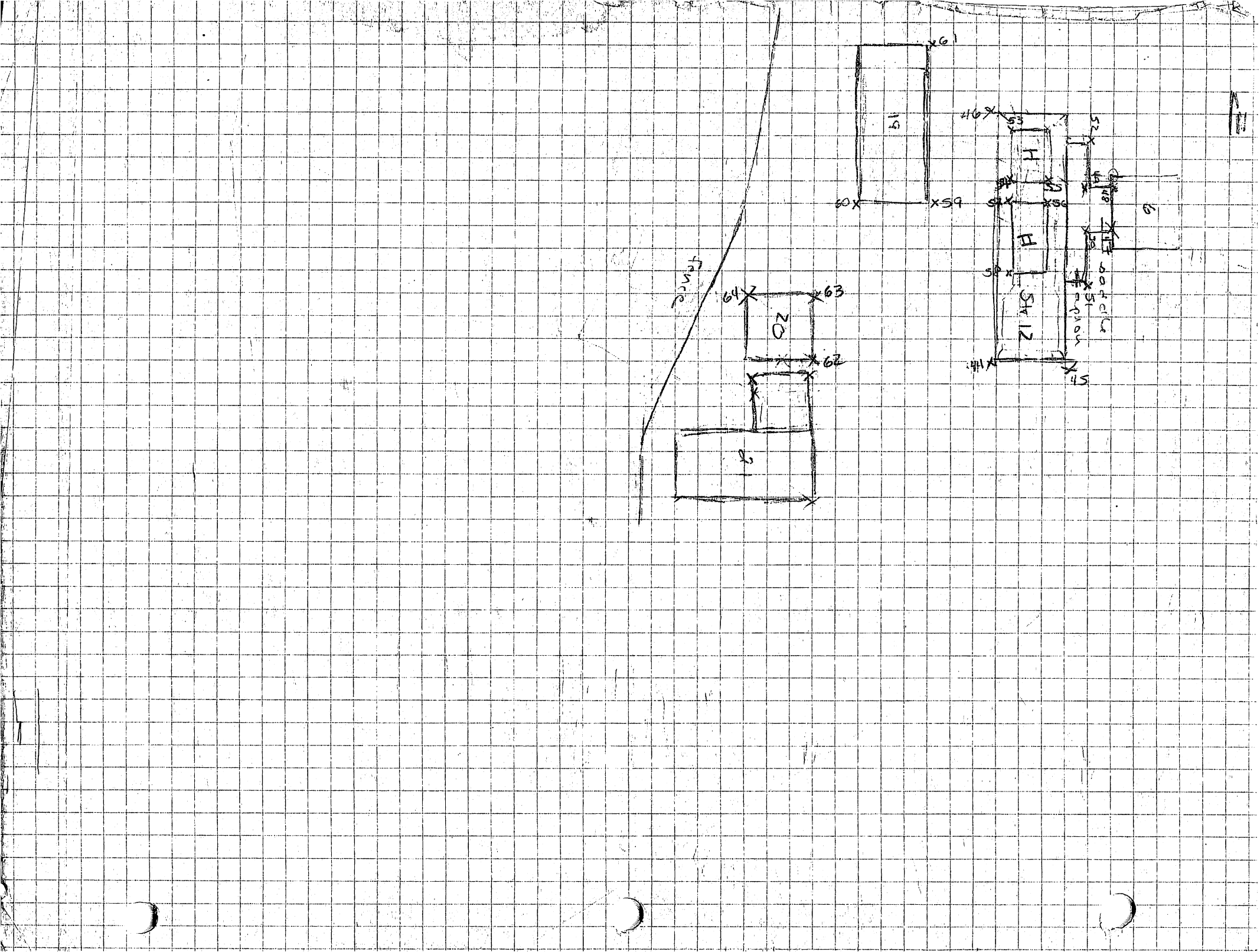
46
47
48
low
Contour
Sketch map


~24
~27-5
#110
wrist position
TOOL CHANGER


61
19
60
59
46
53
52
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55
54
H
56
58
54
12
51
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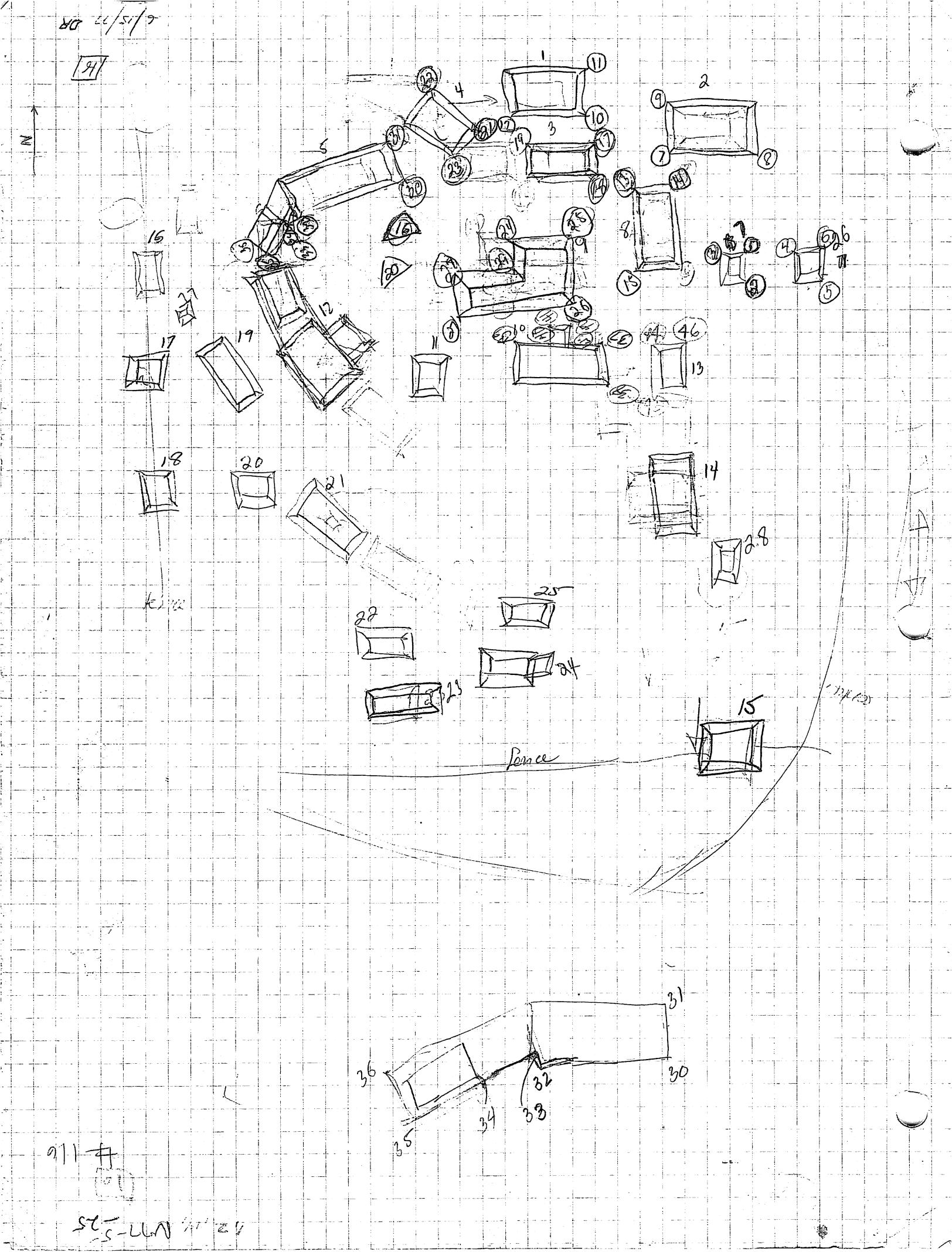
8
6
64
63
62
20
2


N
Fence

	point (station 1)				Δ	quit	#46	N 77-5-26
1	NW corner of W. slope			5.9	255°	6m		1.m.
2	SW " " "			" "	204°	5.8m		
3	SE " " "			" "	80°	3.4m		
4	NE " " N			" "	335°	5.95m		
5	(illegible) " "			" "	309°	6m		
6	NE " W.			" "	205°	3.1m		
7	SW corner	Foot of slope		S.8	35°	5.2m		
8	NW "	Crest		S.8	23°	7.1m		
9	NE "	" " <		" "	42°	11.9m		1.25
10	SW "	W slope		S.3	349°	11.7m		.75
11	NW "	S "		" "	350°	16.3		
12	SE "			" "	13°	12.4m		
13	SW "			S.4	319°	15.2 M		1 METER
14	SE "			" "	342°	12.7 M		
15	NE "			" "	345°	18.5 M		
16	SE "	N & S SLOPES EQUAL		S.5	315°	17.6 M		2 METERS
17	NE "	> GREATER THAN		" "	320°	24.5 M		
18	SW "	< W		" "	290°	19.4 M		
19	NE "	platform		S.10	189°	11.55 M		
20	W "	"		" "	215°	10.3 M		2.5 meters
21	W "	"		" "	219°	16.4 M		1 m (good)
22	E "	"		" "	189°	16.9 M		
23	NE "	structure		" "	180°	19.1 M		
24	SE "	> slope E		" "	191°	30 M		
25	NW "	< platform		" "	228°	16.3 M		
26	NW "	< slope S		S.13	155°	21.85 m		2 meters
27	SW "			" "	157°	34.1 m		
28	NE "			" "	124°	22 m		
29	SE "	< slope W		S.14	100°	20.1 m		.25 meters
30	SW "	> slope E		" "	99°	13.1 m		
31	NW "				79°	14.6 m		
32	SE "	< slope W		S.16	97°	22 m		.25 meters
33	SW "	> slope E		" "	98°	27.1 m		
34	NE "			" "	84°	21.6 m		
(station 2):					249°	30.0 M		

(19, 35, 39, 9)

FROM STATION 1

OTHER GROUP STATION 2 7.5° from STATION 1 20.5 METERS

Data La Jamaica 12 | 14 | 17 | 16 | VI | 77

point		∠	dist	slope
35)	S[illegible] between str 5+6	27°	19.7	1m
36)	SE corner of str. 6	54°	10.7	
37)	NE " " "	348°	12.1	
38)	NW " " "	0°	19.0	
39)	NW corner of corridor between str 5+6	10°	18.9	
40)	NE " " " " " "	17°	20.85	

< slope E ... str 5

41)	SW corner of str. 11	103°	8.9	
42)	NW " " "	52°	7.4	.5m
43)	NE " " "	48°	13.6	

↓ could difficult to define ... because of vegetation

< slope E ; > slope N

44)	SW corner of Str. 12	154°	9.9	
45)	SE " " "	107°	9.9	
46)	NW " " "	300°	17.5	

E side apron round very Tumbled - see book of photos for detail of apron and slope structure - wooden extrapolation was tried

47)	S corner where saddle meets Str 6	4°	10.6	
48)	N " " " " "	352°	12.4	mound 1.5m (Str I)
49)	N " " " apron	346°	12.0	Superstr II 2m
50)	S " " " "	355°	9.3	" " I 2.25m
51)	S " of apron (true corner)	35°	6.9	Apron .5m
52)	N " " " "	336°	14.4	Saddle .25m
53)	NW " of Super Str I on Str 12	303°	11.8	
54)	SW " " " " " "	299°	7.85	
55)	SE " " " " " "	328°	8.7	
56)	NE " " " II " "	333°	4.85	
57)	NW " " " " " "	299°	4.4	
58)	SW " " " " " "	257°	1.2	

> W slope E slope very Tumbled

59)	SE corner of Str. 19	239°	8.85	
60)	SW " " "	230°	16.55	1.25 m
61)	NE " " "	289°	19.2	

< N slope > E slope

62)	[illegible] corner of Str. 20	206°	17.8	
63)	" " "	230°	20.0	1.3 m
64)	" " "	226°	26.7	

< S slope > W slope

Data cont'd La Jamaica [12] [14] [17] 17/V/77

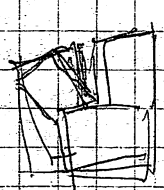
#116

[16]

POINT		∠ (degrees)	dist (meters)	elev
STR 7				
1 NW		166	9.3m	.4m
2 [illegible]		165	12.8m	
3 NW		194	8.5	
26				
str 4: 4 NW		154 ~~197~~°	10.3m	.2m
26		146 ~~184~~°	15.3m	
5 SE		140°	12.4	
6 NE		75°	9.4	
str 2: 7 SW		76°	13.5	.2
8 SE		58°	10.3	
9 NW		334°	11.8	1.2
str 1: 10 SE		338°	19.1	
11 NE		312°	15.6	
12 ~~SW~~		264°	3.41	1.5 west side steeper than east
str 8: 13 NE		209°	6.63	
14 SE		222	15.35	
15 SW		237°	20.55	
16 measuring pt #2		290°	16.30	0.5 west side shallower full elevation near east side
str 3 17 NE		275°	14.55	
18 SE		286°	20.12	
19 NW		253°	19.62	1.1
20 measuring pt #3		325°	7.12	
str 4 21 SE		335°	12.60	
22 NE		311°	8.51	
23 SW		235°	2.28	.75
str 9 24 NW		124°	3.6	
25 NE		146°	7.5	
26 SE		178°	8.59	
27 SW		202°	4.0	
28 [illegible]		225°	3.79	
29 NW		294	13.15	
str 5 30 SE				
31 NE				
32 SW				
33 SE saddle point (s.p.)				
str 6 34 SE corner superstructure				
str 6 35 SW				
36 NW				

DATA SHEET

[10] 6/15/77



+114

point		∠	dist.	clear
str 4	21 SE	322°	5.78	
	22 NE	348°	10.68	
	23 SW	299°	9.53	
str 8	13 NW	52°	3.55	
	14 NE	62°	12.54	
	15 SW	126°	8.38	
str 9	24 NW	241°	2.78	
	25 NE	92°	1.44	.5 main structure
	26 SE	129°	6.86	.3 on "15"
	27 SW	186°	11.3	
	28 NW (QJ)	215°	7.93	
	29 [illegible]	204°	4.16	
str 5	30 SE	302°	12.33	2m
	31 NE	316°	17.5	saddle pt. .5
	32 SW	271°	16.73	6=1m
	33 SE saddle pt.	276°	18.5	
str 6	34 SE corner superstructure	272°	19.5	
	35 SW	258°	25.5	
	36 NW	261°	28.34	
str 7	37 NE	[illegible]	21.90	
	38 SE	[illegible]	27.85	
	39 NW	214°	21.33	
	40 NW JNDENT	202°	19.90	
	41 NW PORCH	[illegible]	15.60	
	42 NE PORCH	188°	[illegible]	
	43 NE INDENT	[illegible]	21.75	
str 13	44 NW	179°	[illegible]	
	45 SW	[illegible]	33.7	
	46 NE	[illegible]	28.9	
	47 [illegible]	[illegible]	[illegible]	to str 3
	48 [illegible]	[illegible]	21.51	
str 14	49 W	99°	3.87	
	50 S	127°	16.22	2.5
	51 N	51°	14.85	
str 15	52 NE	139°	32M	cut by fence line
	53 NW	146°	24.5	
	54 S?	154	33.4	sad pt. due to heavy undergrowth

data sheet 6/16/77 [16]

site Emery HSR9

NTT-5-89

17 de Julio

15 plus all students

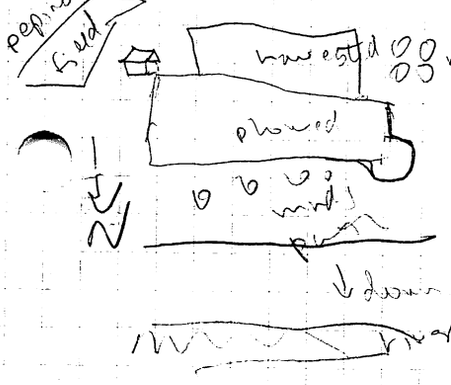
Today's exercise was a herding large fields in an attempt to discern sherd/artifact/rock scatters which could be mapped as destroyed mounds. We were working 2 fields, one a plowed but not planted one c. 125m N-S by 300m E-W in size. The field is near the northern terminus of Naco square by, and is NE of the tobacco barn. On the N side by & over the fence which separates the field from the path on the Rio Naco's high S bank are still extant mounds, which I did not count. The second field, immediately to the S, had just been harvested of tobacco. It is smaller - c. 100m N-S by 180m E-W.

The attempt to reconstruct mounds has been unsuccessful. Only one concentration of sherds, and that only 50 w/i a 5m. radius, was found. The field's rises and falls seem related to topography only. Color differences are related to topography and drainage. Some textural differences were noted - several areas were sandier than the rest. These did not correlate w/ artifact concentrations, and Hutchinson has suggested that the sand is on the higher spots, ridges being more easily transported than clay. Concentration was heavier near mounds

In the second field the artifact concentration was heaviest on the W by some extent mounds, although obsidian seemed uniformly distributed than ceramics. This field produced several times the obsidian found in field ①, despite its smaller size and less complete coverage.

For field ①, we spaced ourselves at 4-furrow intervals, and moved S, regrouped and moved N, etc., accomplishing 8 sweeps in all. The far eastern portion was not walked as the heat was prohibitive. The N-W oddly shaped piece was surveyed by Hutchinson alone. Eric Fensch and Doug Richard did the western 1/4 to 1/3 of field ①, and Urban, Joyce and Petrul did the middle section; The eastern 1/3 was not surveyed.

Sketch of Fields



Artifacts included much obsidian cores, blades, flakes, points, debitage, large flakes; ceramics - sherds, bird head feet, ladle incensario handles, no noticable polychrome, few red sherds, most non-descript except for odd dark gray micaceous paste; nothing else. Distribution, with above exceptions, was uniform.

Conditions were hot - all had problems w/ heat

18 de Junio 1977 [15] [14] Sekerak [16] Richard OP 119 UTM-5v30

Mapping Data Boundary

pt.		angle	dist.	elev TOP
	corner			
str 1	1 SW	283°	12.20	
	2 SE	295°	6.30	2m
	3 NE	337°	12.70	
	4 tree NE str. 2	41°	22.50	
str 2	5 NW	39°	12.90	
	6 SW	78°	6.90	1.75m
	7 SE	88°	12.00	
	palm tree (next to S side str 1)	263°	6.90	

This "site" consists of 2 parallel mounds, each about 5m x 9m at the base and 1.50-1.75 m tall. The site is completely covered in grass, 1m to 1.5 m tall, and a clear view of the mounds was not possible. A few stones were visible, and the construction appears to be the usual river cobble method. The mounds, oriented with their long axes N-S might have had lower outliers; none were visible, but in a few spots in the cattle paths stones and a few very small, c. 1cm x 1cm, sherds could be seen. One rim fragment of a collared olla was found in a fence post c. 180m to the SE towards La Jamaica. The site is located in the second potrero moving East from the highway, on Finca La Bomba. It is approx. 300 m from the highway and 100 m S of the dry but strongly marked stream course. It was discovered while tracing the stream course from La Jamaica to the highway, although Urban had discerned a bump while driving in the general area. The mounds are just barely visible from the highway and La Sierra access road. No water is near by currently, but the pronounced character of the wash suggests that it at one time had water.

STATE OF DELAWARE
DEPARTMENT OF STATE
Division of Historical and Cultural Affairs

EUGENE BUNTING
SECRETARY OF STATE

STATE ARCHAEOLOGIST
HALL OF RECORDS
DOVER, DELAWARE 19901

October 8, 1971

To Whom It May Concern:

I am offering this letter of recommendation for Mr. Edward Shortman who I have known as a student and as a crew member in the field of archaeology for the last year and a half. Mr. Shortman's academic ability is unexcelled, and I must admit that he was one of the top of several students I have taught in the last six years. His performance as a fellow crew member at a number of sites excavated by this agency demonstrated his interest in the field of archaeology and his capabilities as a student of archaeology. I would not hesitate to recommend his employment on any archaeological dig conducted in the world.

Sincerely yours,

Ronald A Thomas

Ronald A. Thomas
State Archaeologist

RAT/dm

NACO LOTS

N77-5-30
bottom

50-1 general surface, all Naco

50-2 plowed field falling into map squares 1H, 1F, 3H, 3F

50-3 N part harvested tobacco field, square 3H

50-4 S pt. harvested tobacco field, square 3F

20 de Junio 1977 — #120 — N77-5-31

5) [114] data recording [116] compass reading

~~Starting off~~ on property of Vicente Duarte, higher ground N of Rio Machaguala a cattle rattle which Lucio says is for milk and beef (Cargo Y gather).

On a small plateau are arrangements of stones one stone high in rectilinear patterns: Our informant says that there were houses here when the dirt/gravel road went along the Machaguala, maybe 30 yrs. ago.

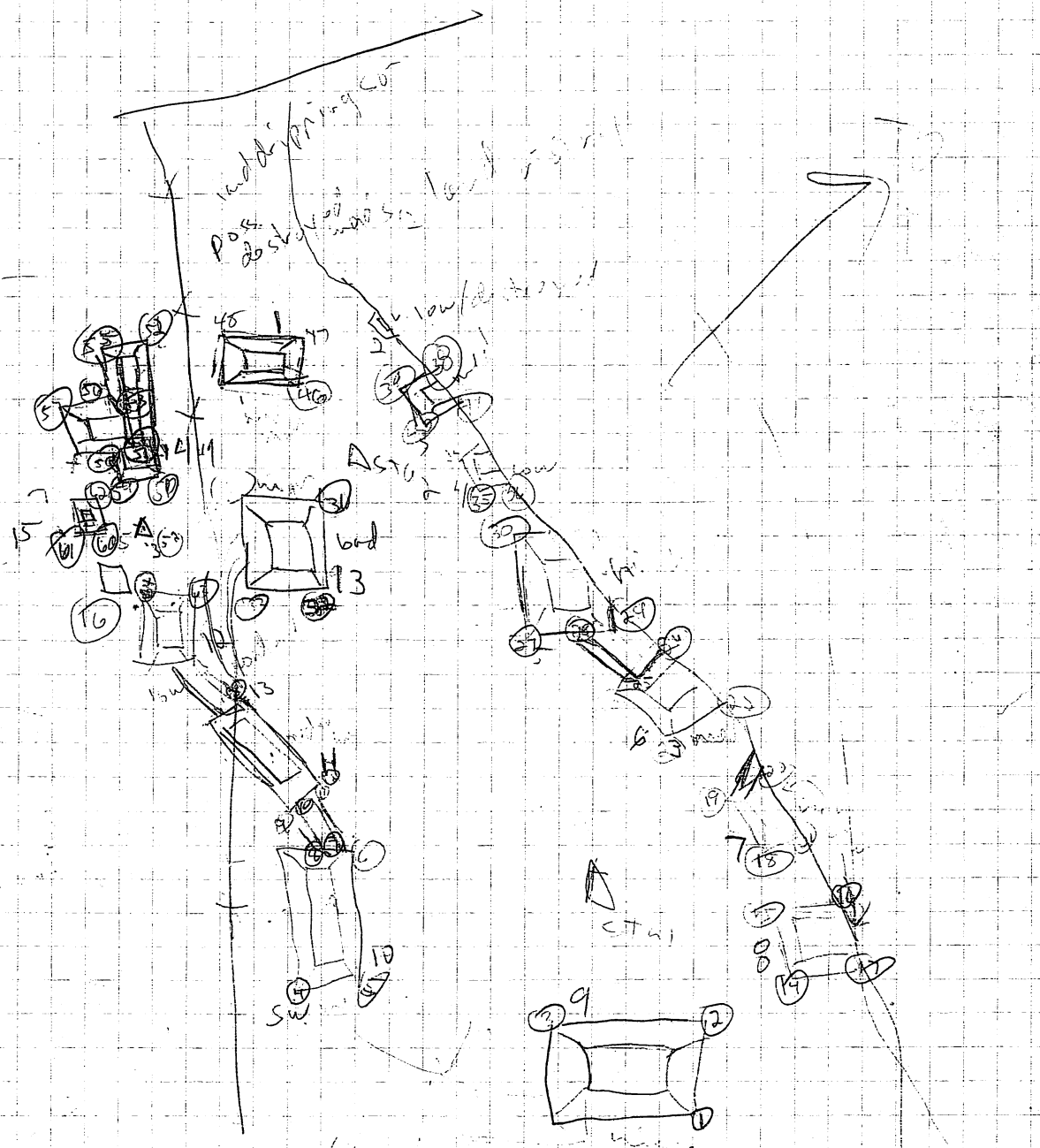
Carlos Arévalo

Data - Guayavial Map

Point	∠	dist	∼	
1) SE corner of Str 9	159°	28m		✓
2) NE corner of Str 9	148°	16.50m	2.75m	✓
3) NW corner of Str 9	194°	14.50m		✓
4) SW corner of Str 10	201°	15.70m		✓
5) SE corner of Str 10 (poor corner)	203°	7.40m	1.5m	✓
6) NE corner of Str 10	237°	8.20m		✓
7) saddle summit + Str 10	236°	11.20m		✓
8) saddle summit + Str 10	235°	13.70m		✓
9) SW corner of Str 11 (poor corner - dump)	240°	16.60m		✓
10) saddle summit + Str 11	241°	14.30m	1m	✓
11) saddle summit + Str 11	243°	11.80m		✓
12) SE corner of Str 11	243°	9.50m		✓
13) Landrises on N side of Str 11 - delineate to declined corner - runs into next structure?				✓
saddle + structure 11 at fence?	282°	17.90m		✓
14) SW corner of Str 8	146°	23.50m		✓
15) NW corner of Str 8	141°	19.10m	.5m	✓
16) NE pt where ground falls off side of Str 8	130°	21.30m		✓
17) pt where ground falls off side of Str 8	132°	25.70m		✓
18) SW corner of Str 7 (is not rectilinear structure!!)	137°	15.80m		✓
19) NW corner of Str 7	135°	12.20m	2.5m	✓
20) NE pt where ground falls off side of Str 7	108°	13.10m		✓
large # of cobbles on contour sides of str 7/8 - fallen or deliberately following contour?				✓
21) SE corner of Str 7	124° 30′	18.50m		✓
22) SE corner of Str 6	98°	12m		✓
23) SW corner of Str 6	125°	5.10m		✓
24) NW corner of Str 6	43°	4.60m		✓
25) saddle summit - no back pt. to str - of str - go to summit	48° 30′	6.50m	1m	✓
26) NE pt. of mound on contour Str 6	56° 30′	10.30m		✓
27) SW corner of Str 5	3° 30′	5.40m		✓
28) saddle summit + Str 5	32°	7.10m		✓
29) SE corner of Str 5	47°	10.90m	2m	✓
30) NW corner of Str 5	353°	16.60m		✓
31) NE corner of Str 13	346°	25.40m		✓
Str 13 inner rock shape - cowpaths across corners etc				✓
32) SE corner of Str 13	333°	13.30m		✓
33) SW corner of Str 13	304° 30′	19.50m	2.25m	✓
34) Station 1 to Station 2	349°	30m		✓

point	∠	dist	elev	
35) SW corner of Str. 4	136°	12.70 m		✓
36) SE corner of Str. 4	128° 30′	15.90 m	∠.5m	✓
37) NW corner of Str. 4	120°	11.20 m		✓
38) NE corner of Str. 3	59°	8.80 m		✓
39) NW corner of Str. 3	24°	2.80 m	.75 m	✓
40) SW corner of Str. 3 - not exact	135°	4.10 m		✓
41) SE corner of Str. 3	98°	10.20 m		✓
42) SE corner of Str. 2	41°	10.60 m	.2 m	✓
43) SW corner of Str. 2	31°	8.0 m		✓
44) NW corner of Str. 2	14°	12 m		✓
45) NE corner of Str. 2	28°	15.50 m		✓
46) SE corner of Str. 1	6°	11.30 m	from N. - 1.8 m	✓
47) NE corner of Str. 1	4° 30′	19.20 m	from S. - 2 m	✓
E side steeper ground slope on W corner ground slope				✓
48) NW corner of Str. 1	335°	21.50 m		✓
49) pt on fence between Str 13 + Str 1	290°	10.60 m		✓
50) Station 2 to Station 3	242°	20.0 m		✓
51) SE corner of the S platform - Str. 14	47°	7.0 m		✓
52) NE corner of the N. platform - Str. 14	5° 30′	18.40 m	center - 1 m	✓
53) NE main structure corner - Str. 14	6° 30′	16.0 m	varies from	✓
54) SE main structure corner - Str. 14	6° 30′	11.70 m	center to ~.6 m	✓
55) NW corner of N. platform - Str. 14	356° 30′	18.60 m		✓
56) N interior corner of main structure and N platforms	356°	16.50 m.		✓
57) NW corner of main structure - str 14	342°	16.80 m		✓
58) S platform north main structure - str. 14	345°	9.40 m		✓
59) SW corner of S platform - poor corner	15° 30′	5.50 m		✓
many corners of this structure difficult to define				✓
60) SE corner of Str. 15 structure in poor condition	245°	3.0 m		✓
61) SW corner of Str. 15	271° 30′	6.20 m	.4 m	✓
62) NE corner of str. 15	348° 30′	3.10 m		✓
63) NE corner of Str. 12	145°	11.50 m	.5 m	✓
64) NW corner of str. 12	174°	10.50 m		✓
covered w/ cactus - estimate corner west of str 12				✓
65) SE corner of str 16	176°	8.70 m	.2 m	✓
66) SW corner of str 16	199° 30′	9.50 m		✓
67) NW corner of str 16 - poorly defined	205° 30′	5.50 m		✓

[5] 20/VII/77 Sketch map - Guayavial #170 [not to scale] N77-532



20 de Junio 1977 cont.

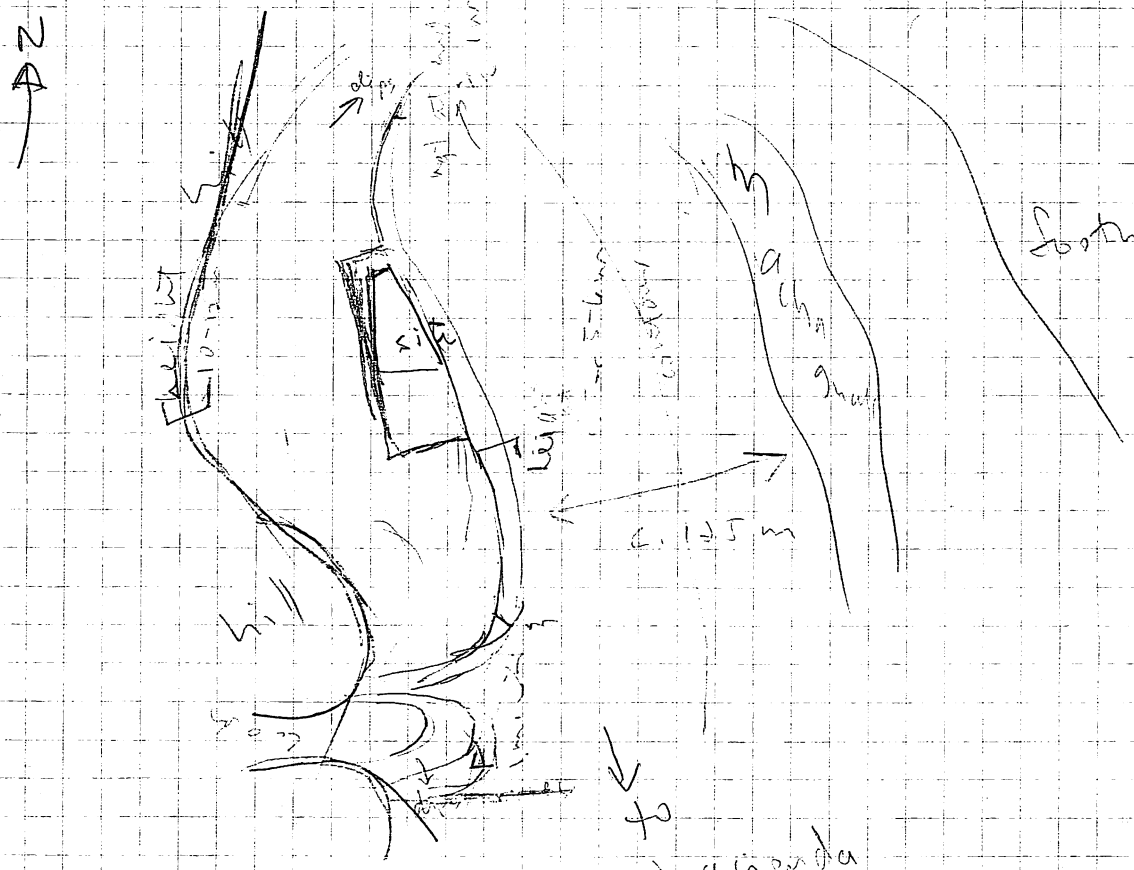
5

120 area

The high path N of the Machagnala proved a bust. We had communications problems w/ Don Lucio who tried to take us up a road into the mountains. So we went back to low ground, and followed the South side of the rio. The 2km or so along Cofradia's E side are not productive; they consist of stream deposits and old courses. The Machagnala is not flowing in the W channel seen on the map, only the E one. About 1-2m higher than the stream are meadows going into Cofradia, but these had no mounds either. Some land on the N side has possibilities - it is high enough, but not above 2000m - but we did not investigate them. Much of the land is can be reached by car, and I plan on doing that tomorrow.

About 8:45 we reached the point NE of Cofradia where the foothills come together, bordering the Machagnala. The land was rising, and we moved up 2 or 3 m above the rio, onto a grass-covered flat area. Another 2 or 3 m above that was a second meadow, leading up to the foothills. Near the hills we discovered a site, called "Las Cabas". "El Negro" is probably the nearer major feature,

Sketch - Guayavial, Machagnala & Hills



20 de Junio

#120 (cont)
asen

but I don't care for that as a name. Tomorrow, if I can elicit the finca name, I'll use that. Also, I must retrace the route to Cofradia w/ the car before recording adequately the way to the site.

The site consists of 16 mounds ranging from 0.20 m to 2.75 m. The site was clear of high vegetation, allowing the small mounds, but work was hampered by cacti

21 de Junio

#3

TO SITE OF GUAYABAL

Road out of Cofradia - 330° to gate; one would continue on same azimuth to "Ladrio" in mountains

to site take red, more traveled route (at 20°) to right 40m from gate, road goes downhill; following road down, after c. 40 m. crosses conglomerate, turns more E w/ steeper slope at bottom road turns N at 355° azimuth

on left (W) is steep rise, on right is grassy meadow

road goes to concrete block hacienda house on right (E) Guayabal

at house road bends more to West, hugging escarpment; goes through (or around) cattle milling pen, made of wood, down to small stream, across it & up to meadow.

go along foothill across meadow at c. 5° - site c. 200 m to N; side is visible over out of the stream bed

~~Finca Cofradia~~

Hacienda Guayabal - name of hacienda w/ site previously called Las Labores, name is changed to Guayabal

N77-5-35

21 de Junio 1977 cont

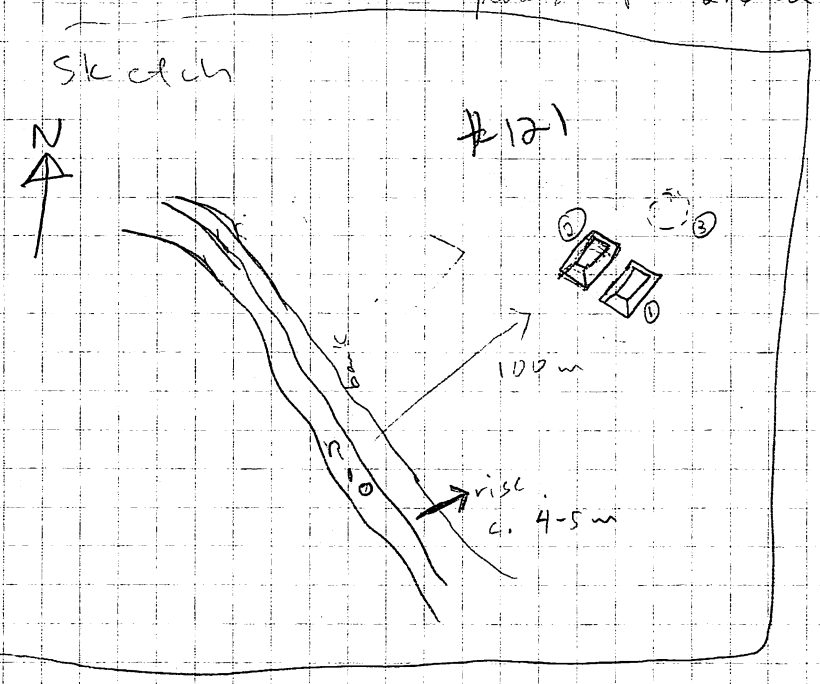
Presidente
Carlos Pineda
Trochez

North side of Machaguala #121 area

Crossed on 1st Vado going NE fr/ highway. High ground looks promising, but campesinos say there are only a few small mounds. We are directed to several. dim ① 5.8 x 5.2 m ② 8 x 5.5 m ③ 2.5 m diameter; 4 m fr/ ② ④ 13.6 across plowed pt. 2.4 m

2 Mounds - dimensions above; were possibly one mound, plowed through the middle; ④ is probably stones from the plowing

Sketch



site named El Cacao after association

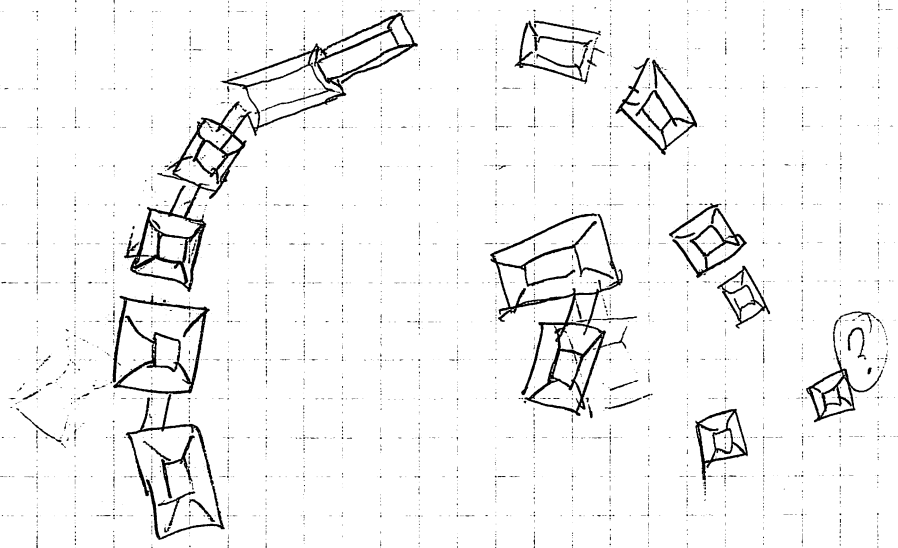
Acentahuite - Cacao Colorado Coffees - campesino group which operates the land here; president's name above, right corner

Field is a dark brown, almost black soil, probably because the soil is naturally dark and has been further darkened by burning. Crops appear to be corn, beans, squash, no cacao despite the name. No sherds found.

The association president promised to get us a guide to a larger site to the E or NW? or N side of the river at any rate. He says that due north of the field everything is "natural". We walked up a hill c. 12 m high, to be shown the nothing. The road which runs through the field goes up the hill, but it is, apparently, little used; the campesinos had corn planted across it. The president is quite talkative and had a long discussion about sites, talking a lot about "Las Tunas". He also told us about Olid. Lucio offered an indigenous theory of site location - the ancients lived close to rivers so that they'd have a breeze to cool them and blow away the mosquitoes. Very interesting.

Sketch map - Los Refrescos 21/VI/77

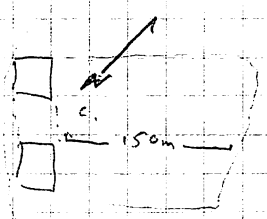
122 - see other pgs. on this site



16
14

22 de Junio # 123 22/VI/77

20 Started this morning by running a very quick sunrise collection in the newly planned/ planned (mapped on field immediately NE. of the 2 mound cluster (cache?)



Well, we've found it - All in very high mono - so high that we're restricted to only a few paths - mapping impossible.

Location - proceed from EL Cacho roughly N.W. along the road which follows the upper bank of the marchouaine's flood plain. For about 200-300 m along, this road drops down into the plain (drops down by a small thatch hut). If ARRIVE then at the SHORE of the marchouaine, and follow it on the N side of this swamp until/ intersect the road to Buena Vista + El Jago. Follow this roughly due N for c 350 m (roughly paced). At this point you should see a high wire fence on your right. Pass through + walk! Cachuelas the road to Buena Vista, once will pass a road branching off to the left - pass this, do not take it. ?

El Cacao Data for Map

14 16 20 22 VI 77

N77-5-37

#121

point	Δ	dist	elev	
1) W corner of Str 1 pinyuerow divider	169°	20.9m	.5 N .15	✓
2) N corner of Str 1 Str. 1	144°	18.5m		✓
3) E corner of Str 1 - poor corner	161°	33.5m		✓
4) center of rock wall	130°	25.5m	2.8m diameter	✓
5) S corner of Str 2	314°	11.3m		✓
6) W corner of Str 2	315°	15.8m	.2 m	✓
7) N corner of Str 2	331°	16.1m		✓
8) E corner of Str 3	315° 30′	27.8m		✓
9) W corner of Str 3	306° 30′	32.1m	.3-.4m	✓
10) N corner of Str 3	314°	32.3m		✓
11) station 1 to station 2	349°	30.0m		
12) W corner of Str 4	346°	14.5m		
13) N corner of Str 4	356°	19.3m	~.5m	
14) E corner of Str 4	7°	16.9m		
15) W corner of Str 5	26°	9m		
16) S corner of Str 5 - poor corner	55°	9.9m	.3m	
17) E corner of Str 5	50° 30′	13.8m		
18) W corner of Str 6	38° 30′	19.8m		
19) N corner of Str 6	56°	7.0m	.4m	
20) E corner of Str 6	50° 30′	25.8m		

also notes on P77-5-40

in with #125 info

N77-5-36

22/June/1977 [20] 123 area

The mounds of this site (Portrero de Limon) would appear to average c. 2.5-3.0 m high (There is a sampling problem here in that only fairly large mounds could be seen very far should be seen on the surface of any of these mounds. Despite visibility problems, we could note that cobbles did occur these spaced ones along with a lesser density scatter. Some small lines of cobbles did appear to be still in place but, again, the dense undergrowth precluded following them out to any appreciable length. Site size: c. 2 hectares - Limon fields (op 123-77-2)=

REFERS TO material collected from the westernmost of the mounds where material appeared to be washing out 123-77-1 refers to material washing out from the road to cornfield, immediately E. of the site. Both lots are composed of very small sherds and some obsidian flakes - no finished tools noted. The site seems to be within c. 350-400 m. of permanently flowing water in the Río Machaguala. The map of the area indicates that Quebrada El Pital runs within several hundred meters of the site to the south. Presumably unused, the site is utilized for corn(?) production (according to several informants.)

Now that Vincente Dominguez is reported to live in Cornadia - only 1 hour by the river, goes to San Pedro Sur in the morning.

Lucio reports that 4-5 men could clear this site in 1 week (6 days.)

After finding around in the thorny bushes for several hours

---

name changed to Santo Domingo #123

[16] 22/June/77 Nel Potrero de Limon (Lemon Field)

is heavily overgrown site situated NE of Cornadia. To get there go out NE of Cornadia over 1st vado (ford) following the Machaguala on E side until reach cornfield. Trail is on road on that side of river trail, although not directly parallel to river brings to same pt; the site El Cacao. From El Cacao go to NW corner of cornfield cross barbed wire fence, and follow trail near river, heading north. this leads to 2nd ford, and large road, follow road (do not cross river) a few hundred feet until see hacienda on right. The hacienda is on the southern extremity of site. There are 26 mounds describing either, one large plaza oriented in a north-south direction, with the south end open, and smaller mounds surrounding and within the plaza; or as 2 plazas one north of the road and one south. It is possible that there are many small plazas that cannot be delineated due to the fact that there is such heavy growth. There are many trees and many more bushes and cactii. compass work at present is impossible. Although locals say that it is used for grazing by cattle, and there are some cow paths, I found no evidence of recent grazing activity. We found potsherds on the mound nearest to the road on the western side of the site

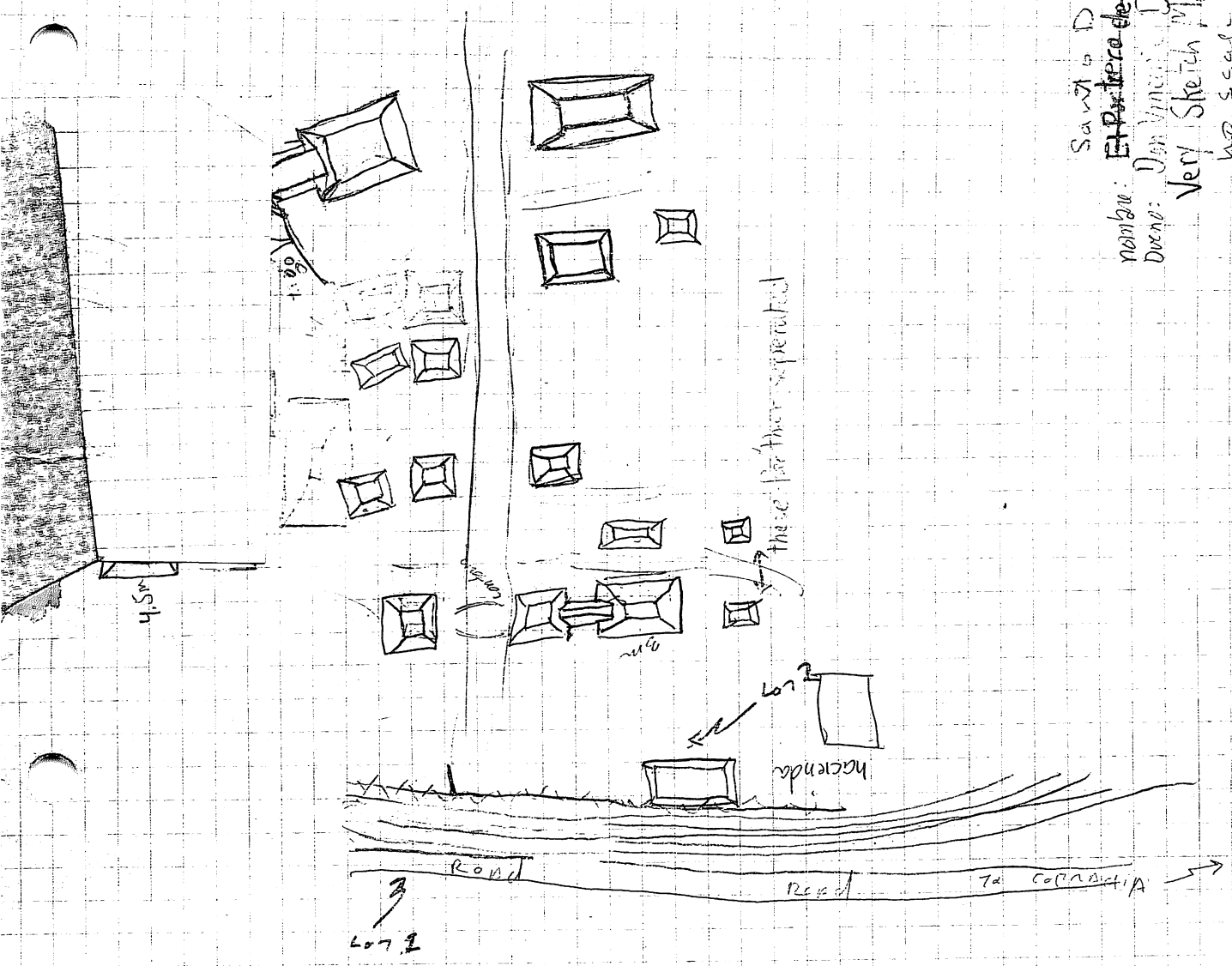
sherds collected from wash and on/out of one mound -s
Lots 123A-1 (wash) 123A-2 mound

22 de Junio 1977

N 27-5-39

Santa Domingo
El Portera de Manchagualda
Nombre: Don Vinicio Duque
Dueño: Don Vinicio Duque
Very Sketch Map
Hacienda Vega de Manchagualda

HC2 16 op # 123



Note: From S. → N. along the road the steps from the road to the site demonstrate that the road is climbing, and then sharply up toward the site. The site itself sits on the 157 meter rise above the Machagualda.

#121 cont'd

Sto. Domingo

After looking over Lemon Fields, we returned to El Cacao to collect shards from the fields to the west and south of the mounds looked yesterday. In walking these newly plowed fields, we located 3 new mounds plus a rock scatter. Quickly mapped the visible structures. All very low, the Co Stes high, though they did contain quite a few cobbles on their summits. Not plowed, at present but plowed immediately around them, thus destroying their contours. All sherds collected / designated 121A-1 - Guaraní/Sunifacio. Now that sherd frequencies seemed to increase towards the structures, and decrease away from them. Also, soil in the fields was a dark black color. Planted in corn and beans, at present c. 20-30cm high.

23/June/1977

I off to San Bartolo Abajo (also called Las Tunas according to Lucio - not the same as the Tabacalera). A long walk (± 2-2.5 km), not to a site but even more overgrown than Lemon Fields.

Location - drove car off road along the road to San Bartolo Arriba past 2 swing gates (past the Tobacco sheds). Just past the 2nd one, parked ± climbed up a high bank to a path which seem to run just N.W. of the Tobacco fields. followed this path (very dense vegetation on both sides) travelling ± N.W. until we crossed Quebrada Las Tunas. Continued on the same [illegible]

Date:

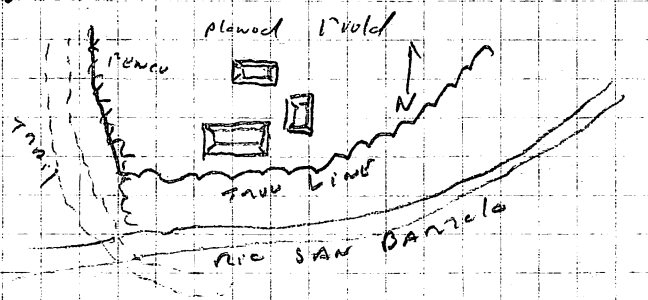
Casa Vieja #125

point		X	dist	elev
1) NW corner of Str 1	- all corners badly disturbed	259° 30'	↓ ? m	
2) NE corner of Str 1		170°	↓ 11.10 m	1.5 m
3) SE corner of Str 1		181°	↓ 11.60 m	
4) SW corner of Str 2		128°	↓ 13.70 m	
5) NW corner of Str 2		94°	↓ 9 m	.75 m
6) NE corner of Str 2		96°	↓ 13.10 m	
7) SE corner of Str 3		21° 30'	7.30 m	
8) SW corner of Str 3		324°	↓ 7.90 m	.5 m
9) NW corner of Str 3 - very badly disturbed		341°	10.80 m	

Trail (from now heading west slightly N.) I believe paralleling the Quebrada (~~500~~ 300 m along this tunnel from the Quebrada crossing Coy, as the tunnel known as what is called San Bartolo Abajo/Las Tunas very densely overgrown, couldn't even do a sketch map. Continued along this same path N/N.W. until we arrived at the house of Antonio Paz ~~turned~~ ± west distance from S.B. Abajo to the house c. 500 m. turned ± W. into the house, thence S.W. [illegible] and then N.W. and then N.W. gave and arrived at the Rio San Bartolo. Followed along the Rio San Bartolo, N.W. until the path TURNED N.E. and then walked ~~ron~~ 100 m till arrived at a series of plowed fields - 1st plowed field on the right, walking from the River contains the site of CASA VIEJA (125). (Located at the S.W. section of this field towards the river). This site consists of 3 mounds arranged around a rough plaza the largest is c. 1.5 m high, the rest being only c. .75 m high. All three were badly disturbed, apparently

23 de Junio 1977

by plowing around their edges and, at least in the highest, through some shallow digging. All these are covered with cobbles and some schist lajas. Very few sherds were found from the general area of the mounds. At present, the size and the field in which it sits is plowed and planted in milpa (c. 20cm high at present). The 3 mounds sit against an area of high ground. I do not believe that many more mounds could exist in this overgrown area as the río (río San Bartolo) flows within c. 100m. of the site.



not to scale

Quickly looked over the field west of the one containing op. 125 (working scene). Had Lucio walk over the rest of the field in which casa vieja was located - reports no mounds - did pick up a few sherds. This latter field seems to contain quite a few rocks and, especially, gravel. No recognizable clusters noted, and no obvious association between amount of sherds and amount of stones. Site designated casa vieja (owner, Antonio Paz).

Returned a slightly different way (by a road you can drive). From the NAco road, you would go as follows. After the 2nd swing gate, you take the next passable road on your right (after passing a mainly good one heading off it to the left). Proceed along this road N./N.W. until arriving at Guaraches Las Tunas (c. 400-500m. along the road - can be noted at by counting steps.). From here you continue along the same road, though now heading more N./N.E. This road will eventually (± 800m.) divide near the tunel leading into Antonio Paz's finca house - the road to the right (E.) leads to Las Tunas (op. 124) the road to the left (W.) to casa vieja (125). Continue on the road bearing W. (taking the right fork you will come to) until you arrive at the río San Bartolo. From here, same direction as before.

To get to Las Tunas, bear right through Antonio Paz's yard and then, once past the next swing gate, turn right (S.E.) along a rough bad road. I believe Las Tunas is located on the border of the 2nd + 3rd fields on the left.

#124

Las Tunas (op. 124) - almost impossible to see without along the fence separating fields 2+3 (?) from c. 250-300m. (field on left.) Kept coming across low (c. 25cm high) mounds covered with cobbles on this route. One mound was located c. 100-150m. in from the road, was c. 2.5m. high. Unfortunately, only its S. end was visible - attempts to see into the vegetation to get an idea of its length were frustrated. Low mounds (c. 25cm high) were also noted west (right hand side of the road) along the corresponding

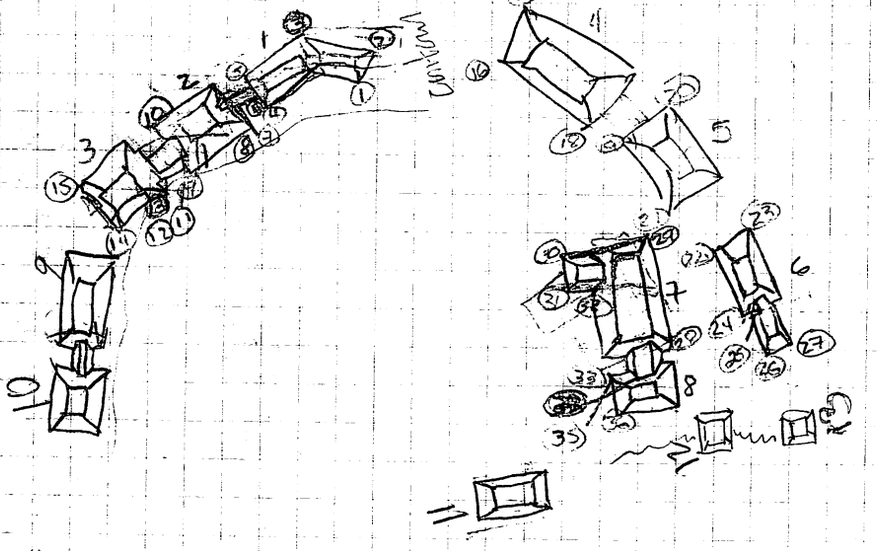
Sketch map - Los Refrescos 23/VI/77

N77-5-42A

14 16 20

#122

5



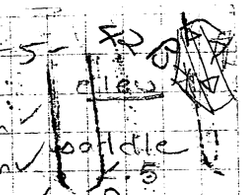
Data Los Refrescos

Point	A	dist	dist
1) SE corner of platform Str 1	10° 30'	6.90 m ✓	platform 5
2) NE corner of platform - Str 1	11°	10.90 m ✓	Str. 1 .5
3) NW [illegible]	350°	14.30 m ✓	
4) SE [illegible]	[illegible]	6.30 m ✓	
[illegible]	303°	12.60 m ✓	
6) SW [illegible]	350	8.10 m ✓	
[illegible]	299	7.80 m ✓	1 m
8) NE corner of structure 2	280°	4.10 m ✓	
9) SE corner of structure 2	231°	10.30 m ✓	
10) SW corner of structure 2	265°	15.20 m ✓	
11) Wall corner joins Str 2 on E side	250°	13.30 m ✓	
12) probable end of wall Str 3 on E side	247°	15.30 m ✓	
13) NE corner Str 3	236°	13.90 m ✓	1.5 m
14) SE corner of Str 3	235°	23.10 m ✓	
15) SW corner of Str 3 - impreciso ——→	255°	26.60 m ✓	
16) SW corner of Str 1	33°	4.90 m ✓	
17) NW corner of Str 1	120°	11.60 m ✓	1.2 m
18) SE corner of Str 1	102°	6.60 m ✓	
19) W corner of Str 5	109° 30'	8.0 m ✓	
20) N corner of Str 5	105°	13.50 m ✓	1 m
21) S corner of Str 5	137°	10.10 m ✓	
22) NW corner of Str 6	141°	17.0 m ✓	
23) NE corner of Str 6	143° 30'	21.60 m ✓	.5 m
24) SW corner of Str 6	152°	19.70 m ✓	
25) [illegible] NW corner	149° 30'	21.40 m ✓	
26) platform - SW corner	160°	25 m ✓	
27) SE corner of platform	154°	27.60 m ✓	1.5 m
28) SE corner of Str 7	150°	16.70 m ✓	
29) NE [illegible]	150°	8.30 m ✓	.75
30) NW corner of platform	212°	11 m ✓	
31) SE corner of platform	199°	15.30 m ✓	

Data Los Reservas cont'd

32)	junction platform + structure 5				
33)	junction mound + structure 7				
34)	junction saddle + structure 8				
35)	NW corner str 8				
36)	SW corner str 8				
37)	SE corner str 8				
38)	NW corner mound str 7	str 7			
39)	platform-mound junctn N	"			
40)	platform corner NW	"			
41)	" " SW	"			
42)	platform-mound junctn SE	"			
43)	mound SW corner	"			
44)	saddle, west junctn	saddle			
45)	" E "	"			
46)	SE corner str 7				
47)	NE " " "				
48)	N " " 7				
49)	stn 1 – stn 2				
50)	SE corner	str 9 - mound NW-SW side contains along E side of W structures			
51)	NE "	"			
52)	NW "	"			
~~53)~~	~~SW "~~				
54)	saddle summit (only faced on E side)				
55)	" "	str 10			
56)	NW corner str 10				
57)	NE "				
58)	SE corner (approx.)	str 10			
59)	NW "	str 11			
60)	NE "	"			
61)	NW "	str 12			
62)	NE "	"			
63)	SE "	"			
64)	NW	str 13 (dot mark scatter)			
65)	NE (?)				

192°	N 77–5	
179° 30'	14.60 m ✓	
183°	17.10 m ✓	
189°	19.60 m ✓	
198°	19.10 m ✓	
183°	24.10 m ✓	
170°	28 m ✓	
182°	✓ 7.10 m	
202°	✓ 8.70	
203°	✓ 8.40	
191°	✓ 14.20	
188°	✓ 14.10	
179°	✓ 15.80	
173°	✓ 17.30	
165°	✓ 18.30	
151°	✓ 19.0	
150°	✓ 15.70	
200°	✓ 9.70	
273°	✓ 27.40	
315°	✓ 7.50	(9) m
304°	✓ 16.70	
270°	✓ 18.70	
	✓ 10.60	(10) .8
254°	✓ 10.60	
256°	✓ 16.0	(11) .5
243°	✓ 7.70	
203°	✓ 14.0	
200°	✓ 9.40	(12) L ½
139°	✓ 10.20	
115°	✓ 12.70	
108°	✓ 17.40	(13)
120°	✓ 19.0	L ½
106°	✓ 21.20	
106°	✓ 25.0	



#124 Area 7

Fence line. Again, vegetation was too heavy to see many mounds. The Area cleared for the fence was impossible to determine walking along the road. Towards Antonio Paz's fence, we kept coming on low mounds (or upwards of a distance of c. 350m. Also, as the fence, the mayordomo suggested that there were mounds (low I believe) located immediately across the river from the fence (N. of it) and also visible to the E/S.E. Some low bumps could also be seen on TCA land (around the house.)

AFTER returning to the car, we drove (as far as Antonio's) to check the map. Got several panoramic shots in while Lucio collected shards from the surrounding field (none in milpa c. 40cm high) = op. 123 A-I. Need to do finish it up. Started the station (steps in loss). Drew panorama sketch map (keeps the original).

24 de Junio

#126 area

5 Hacienda Macondo
Dr. Ricardo Antonio Oviedo

Started the morning by going up to Las Tunas to see the mounds. They're very overgrown, and I have arranged for men to clear them off. Did not attempt map, but seems to be 8-12 sits.

Next stop was Macondo, a hacienda the name of which used to be "La Sierra". Was trying to relocate "la Mora" which Kassie found last season. There are about 40 mounds which can be seen on both sides of the road. Most are S of the road, between it and the river. Several are in milpa, but most are overgrown, some in high montes. Spoke to man who is presumably the mayordomo who was quite agreeable and doesn't care about the mounds. The owner's name is above - Dr. Oviedo.

To reach the site we followed the road W out of Naco into the mountains. Immediately after the place where one would turn to San Antonio, the road goes down hill and splits. We had a choice between an upper fork and a lower, the upper is narrow so we took the lower. It crosses 2 streams - the Naco twice? - and winds up at the hacienda buildings. Going through the swing gate, one follows the road to another gate, & up hill. After going downhill, on a cut overhanging the stream, one sees the mounds. A second gate divides the site into 2/3 on the E and 1/3 on the W. We drove a bit further & found nothing.

24 de Junio 1977 cont.

Next stop was returning the transit to La Sierra.

We decided to try Luis' site of Jutiapa, which I gathered is located on La Bomba. Laura was unfamiliar with the site, so Luis came along. It is not on La Bomba, and we never got there. We went down the 2nd road south from La Sierra's road (the one which runs near the Agua Sucia. Coming to a hacienda, we turned SE on an old, overgrown road, which crossed the Sucia. It wound up in the middle of an area Henderson and I had walked while tracing the Sucia. We got to the end of the road, and Luis & Lucio had an argument about how to proceed. The road, if it were still followed, would run over the hills and keep N going on the E side of an arm of hills running N into the valley (see note on Agua Sucia walk). The site of Jutiapa is on the E side of the hill, and would have been very hard to walk to from where we were. There is a road which runs there, but it entails going on the land pertaining to the hacienda where we parked. We tried to find the major domo, but he was out. Lito would not drive on the hacienda w/o permission, so we left.

We then returned to Los Refrescos, finishing the map. We reshot CTR. 8 and shot in 4 more mounds, for/and two stations. Unfortunately, 3 of the 4 were in high brush, so we extrapolated a bit. I don't think it was worth clearing them to get exact dimensions. I've walked the clearer space in back (S) of the brush line and there's nothing there that I could see. The site and the pottery are, it seems, L. Classic as usual. The pattern of contours and

27 de Junio 1977 #124 N77-5- 45

Mapping site of Macondo after dropping workmen off at Las Tunas. There are about 13 mounds, some of very impressive size - c 3m high, 15-18 m long. Again use of contours. The southern string of mound is built onto a 4-5 m drop off to a meadow leading down to the Rio Naco. On the N, there are mounds built into the hill indeed in one or 2 cases it's hard to tell if it's mound or a natural deposit.

Later:

The map is half finished: we did the mounds on the E side of the fence. We are using the N post of the fence gate as a sort of permanent datum to shoot to when we get back to the site.

The locus conforms in many particulars to the pattern which has been appearing here. Several of the large mounds, in an E-W line, are built right on a contour so that they are 1½ again as high viewed fr/S as fr/N. The mapped plaza group makes use of small level changes for mound arrangement and connection. There are also very large boulders, one or two of which are incorporated into the strs., in and N of the Eastern plaza group. It appears that they have been in place for some time.

We picked up a few sherds in the field S of the western most mound. More are there, and we'll get them later. Nothing seems too interesting.

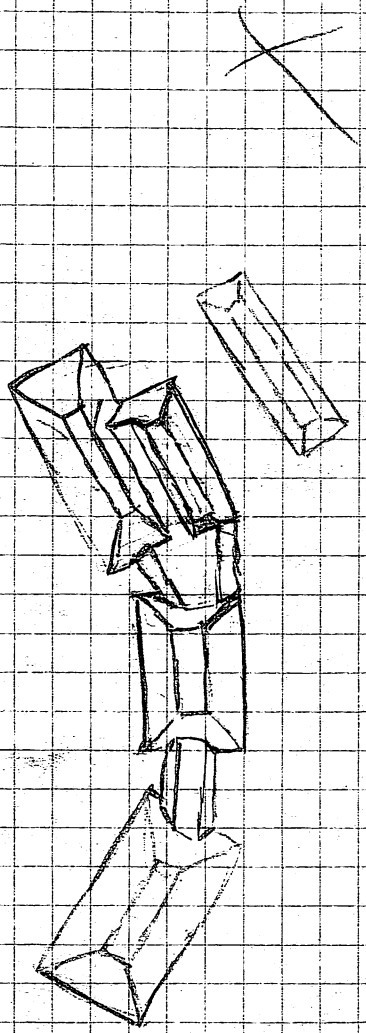
LOT

126 A-1 general surface, Macondo site

#124

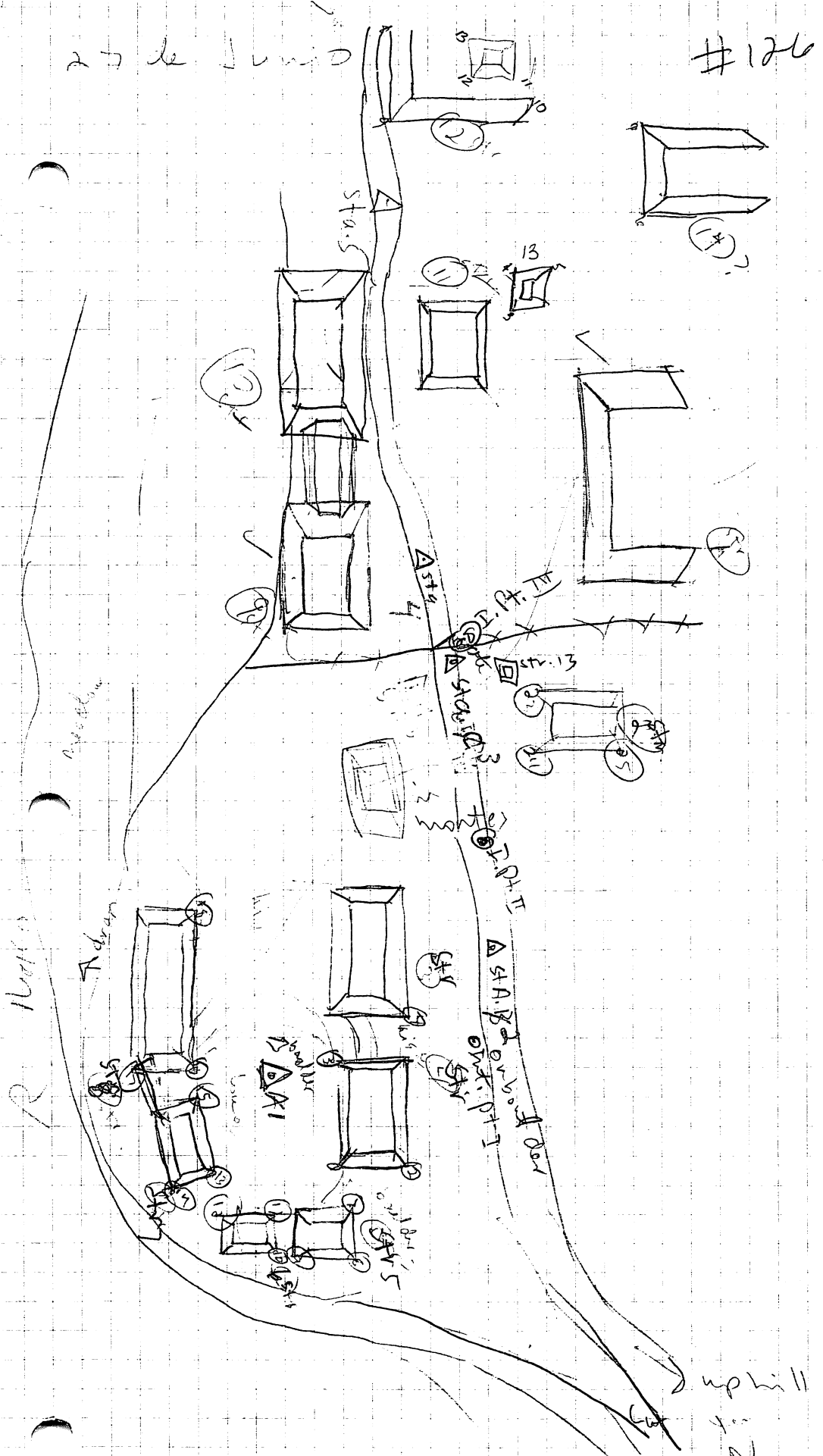
Las Tunas was completely cleared in 1 day. There seem to be 8-10 mounds, w/ perhaps a few small ones along the path running E-W on the S border of the locus.

Lucio pointed out some very low humps, c. 20cm high, to the N of the main site. He says they're graves, and in deed are about grave size, c. 1x2m. They are too small, I think, for house mounds, but I'm not sure what they are. I do not intend to map them in, merely sketch on group and indicate an approximate location on the map.



#126

13 17


Sta. 5
13
Sta 4
Sta. 13
Sta. 3
T. Pt. II
T. Pt. III
Sta. 1
Sta. 2
Sta. 5
Sta. 10
Sta. 11
Sta. 12
Sta. 14
Sta. 15
Sta. 16
Sta. 17
Sta. 18
Sta. 19
Sta. 20
Sta. 21
Sta. 22
Sta. 23
Sta. 24
Sta. 25
Sta. 26
Sta. 27
Sta. 28
Sta. 29
Sta. 30
Sta. 31
Sta. 32
Sta. 33
Sta.

27 de Junio 1977 — #126 Mando Mapping Data — N77-5-49

Station	Structure	Distance	✓	∠	Comments / FL & V
					Site Mercadito 27/VI/77 [5] [17] [17]
Sta A	1. Str. 4 SE corner	9.6	✓	61°	Station at lowest pt. between 1.75 steeper on str. 4 than 3 Smoothly contour on N 2.75 m's land is 0.75 higher slightly steeper on S than on S. Pt. 6 may be off 0.5 m high
	2. Str. " NE	19.3	✓	46°	
	3. " SW	8.5	✓	353°	
	4. Str. 3 NE corner	18.1	✓	353°	
	5. " SE corner	11.4	✓	321°	
	6. " SW corner	24.8	✓	306°	
	7. Str. 5 NW corner	18.0	✓	81°	
	8. " NE	23.6	✓	84°	
	9. " SE	22.0	✓	99°	
	10. Str. 6 NE corner	22.0	✓	107°	0.5 m step contour drop of 1.4 m. median slope gradually to R.B.M.
	11. " NW corner	16.4	✓	109°	
	12. " SW	17.8	✓	128°	
	13. Str. 7 NE corner	13.5	✓	155°	0.75 m
	14. " SE	19.3	✓	155°	pt. 14 on contour
	15. " NW	14.5	✓	198°	Str. 8 on E side, which is steepest
	16. Str. 8 NE	13.4	✓	210°	2.0 m on E side, which is aft
	17. " SE	21.1	✓	203°	contour & is steepest
	18. " NW	25.1	✓	252°	pt. 17 is on contour
	19. Sta. A to Int. Pt. I	29.0	✓	359°	Pt. on boulder
Sta 2	20. Sta B (3) to Pt I	23.7	✓	150° (330°)	on road on cobble scatter, NE corner, N-S x 2 m E-W
	21. Sta B (3) to Int. Pt. II	30.0	✓	282°	on road
	22. Sta C (3) to Int Pt II	12.2	✓	92°	on road, S edge
fr/ Sta C (3)	23. Str. 2 SW corner	15.5	✓	36°	2.5 m on S to E, less step on
	24. " NW corner	26.6	✓	330°	N and W
	25. " SE	23.6	✓	68°	< 0.5 ; cut by road on S side (Str. 1 is visible)
	26. Str. 1 NE	8.5	✓	52°	
	27. " NW	6.3	✓	240°	
Sta D (4)	28. Gate N end Int Pt III	11.9	✓	286°	
	29. Sta D to Int Pt III	7.9		71° (251°)	
	30.				
	31.				
	32.				
	33.				
	34.				
	35.				

Need Azimuth on road to E

28 de Junio 1977
5
E 123 orey

After the usual round & chauffeuring, took the workmen to the Lamson Field, which Luis says is Santo Domingo. I suppose I'll have to change the name to conform to popular usage. The site is quite impressive. The large mound we climbed up is at least 5 m high. I'm also impressed by the sketch map which Ed, Doug and Sharon managed to get done. The mounds is pretty fearsome. I left the men to clear the mounds, beginning with the large ones. For now they're just doing mounds. I hope that the plazas need not be cleared to map with a transit.

We next proceeded c. 300-500 m. up the road (to NW) which runs past the site to Chang Vista and Jute. I poked around a bit on both sides of the fence, but conditions did not seem promising. We stopped at a small stream in a quebrada (must check on map). There the road is hemmed in by steep hills, and it seemed unlikely that any site by in that direction. It also, I think, goes outside our survey area.

About 30m S(W?) of the gate giving access to Santo Domingo there is a very abrupt drop-off to the Machaquala, c. 15m. No mounds seem to be along the edge, although there are some on the NE side of the road c. 80-100 m from the gate.

There is pottery in the road by the gate, but we did not pick it up this time. The rocks in the area also mimic pottery in the strict sense, up into small shard-like plates, which even show the way the original coarse, utilitarian work did. Most of the pottery we saw was utilitarian, like that brought home by Ed and the others.

WORKMEN

Luis Baptista
Evene Lopez
Herardo Perez
Seferino Murcia
Lucio

Next step was following the left fork of the road, where it branches just before going up hill to the site. It crosses the Machaquala, and runs along the S side. We walked part of the route earlier, however we took an old dilunct route up towards the mountains to get to Guayacal, while today we took the well-traveled right branch. It is traveled because the old stream bed is being quarried for sand and gravel. That accounts for the trucks we heard from Guayacal. The road peters out, and we parked and walked through some campesino property

also a little in 77-5-49 #100 + #101 5/6

25 de Junio 1977

#123 area

E, down from the stream. From there we did about ½ to ¾ km along the terraces above the Machaguala, checking contours like the Guayaquil one. The area proved stable - not even a suspicious bump. At the point where we were today, the hills are very close to the stream on the NE and on the SW side there are only a couple hundred m between stream & hill. So I have declared the area closed. Given Santo Domingo & Guayaquil, I can't see any other noticable settlements up any farther to the N.

Next stop was Manacal, where I spoke to the overseer(s). Congenial folks, offered to help if I ever had car trouble. We can do as we please there.

Dunsead

The Manacal road is quite muddy, and there is at least 1 aguada which I did not recall. The holes at time are large, and I can see why they offered help. The field near where the bulls were is flattened, and the mounds are gone. So I'll have to pick them up from last year's map.

We drove down to the río, where the water was belly deep on a horse going across. We can't make it although something is going across. The other side of the river will be for next time. There is a large crane at the río which seems to be engaged in dredging sand. It was not operating so I'm not sure.

#100 area

Tres Piedras is more destroyed than before. I recall 3 mounds being cut by the river scarp, but we saw only two today (SD 9). The Chamelecon, actually a branch of it, is now actively cutting where there used to be trees and a stagnant pool. I should have searched harder for the remains of the third mound, but we were late and the mosquitoes were fierce. It is likely, however, that the mound has collapsed, given the state of the river.

The site area is now in grass, as is the space between the site and Buena Vista. Few signs of the rock scatters that we mapped before can be seen. B.V. is quite wide. The area seems to have been improved - I recall more scrub brush.

#161 area

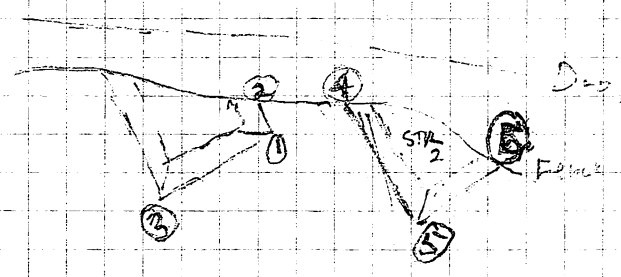
Las Vegas is about the same, though the path leading to it is overgrown. I think it can be mapped w/o clearing.

The work at Sto. Domingo went OK, but it's slow. Only the long mound and 12 ½ compounds done. There are dam sadales connecting the most prominent contours. The big one is 1.5 m high. Quite impressive.

28 June 1977
5 17 13
Tres Piedras ++ 100

N77-5-50

	STA.	POINT	DISTANCE	AZIMUTH ANGLE	HEIGHT
①	1	NW Corner Structure 1	11 m.	112°	1.75 m.
②	1	INTERSECTION, FENCE on W SIDE OF STR 1	15.8 m	122°	extends ≈ 1 m. beyond fence, drops off steeply to river channel
③	1	NE corner Str. 1	16 m.	91°	
④	1	INTERSECTION fence on N side Str. 1	13.2 m	145°	extends ≈ 1.5 m. above ~~fence~~ bottom of trap
5	1	W. W corner - Str. 2.	9 m	196°	1.75 m
⑥	1	fence ± INTERSECTION W side Str. 2	19.7 m	146°	extends about 2 meters on other side of fence



N

29 de Junio 1977 N77-5-51

Directions for Los Cocos #105 area

Take the road at Manaca which lies between the garage-Cielo and the hacienda buildings. Follow it c. 1 mile until the third clear left turn - two tire tracks in a space between 2 barbed wire fences. Continue until an intersection is encountered. The road straight ahead leads to the gate, take the eastern of the two left hand tracks, the one closer to the river. Soon it is driving towards the river. The path is lined by trees and tracks through the grass. On the right banks of trees can be seen; these mark the old river course at EYP which was dry two years ago, but which now has a small stream flowing in it. Continue and locate the first trees, one sees that the river bends from its DIVE course to a NNE one. A cut bank can be seen which marks Los Cocos, Los Cocos also has many high trees. Go across the field and head cross country (NNE) currently was built in it) into the next field. Here the cut takes the form of a ditch between the two fields, one in both the bull field and the next field. If you have a slight depression and a line of trees running N-S you have gone too far.

Los Cocos is more open than I recalled. The vegetation would be mostly grass & brush & trees. The following characteristic obstacles such as mounds and [illegible] but again the mounds were pretty well left alone. Most of the grass cleared in the fenced field are mounds.

I counted about 17 mounds, with Hal & Rosemary getting >12. Most of the mounds are west of the lane, the smaller ones by a large E.

Before coming to Los Cocos, we went to Las Vegas and did the sketch map there. We were prevented from mapping because the excavation crew had taken our bag. I didn't think it worth the time & gas to go back for it. We also had to change a tire, which Hall noticed leaking. Probably hit some barbed wire.

The small mounds c. 40-20 cm at Las Vegas are all but invisible. They'll be hard to do, but I don't think it's worth taking a man to clear them. If we come back in the dry season we can pick them up.

Santa Domingo looks more and more impressive. 4 more cleared so far, 3 of them huge!

29 June 1970

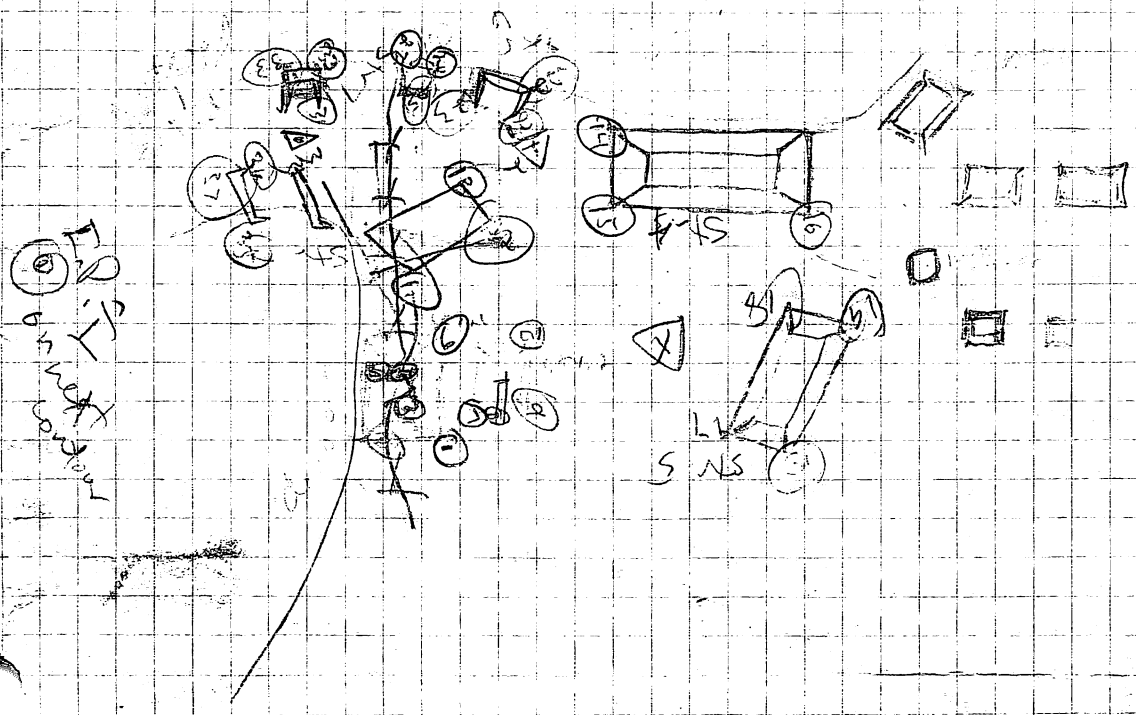
(5)

#101 Las Vegas

Road
Road
Road

29 JUNE 1977 #101

Las Vegas main group



LAS VEGAS
30 JUNE 1977

#101

12 17 5

N77-5-54A

STA 1

	PT	DIST	(Azimuth) AZIMUTH	ELEV	COMMENTS
1	NW corner Str 1	8.9 m	83°30' N	1.75 m	Mound extends 1.2m beyond fence
2	Str. hit. fence (N)	18.40	76° 30 ✓		
3	NW corner loafer's pit	13.80	98° ✓		Loafer's pit 1.5m deep
4	SW corner " "	14.0m	99° ✓		back line beyond fence falls off sharply
5	loafer's pit / fence	16.70	111° ✓		
6	SW Corner Str 1	11.0	124° ✓		structurally unclear
7	Str. 2 NE corner	7.10	110° ✓		Str. 2 — all pts bad — trenched by Strong, Kidder, Paul.
8	trench outline	5.50	112° ✓	(1.25m wide - trench)	
9	NW corner	2.40	118° ✓	mound - 0.5m high	
10	SW corner	6.90	139° ✓		
11	Str. 3 NE corner	18.70	152° ✓	1.75 N side	
12	NW corner	16.90	187° ✓	2.0+m S. side	SW corner not good.
13	SW corner	28.40	190° ✓		13 Bad corner
14	Str. 4 SW corner	20.20	214° ✓	2 m. High	slopes sharply with contour on South side.
15	NE corner	12.20	210° ✓		
16	NW corner	12.70	289° ✓		
17	Str. 5 SE corner	13.20	31°30' ✓	2.5 m.	distance pocket gopher
18	SW corner	16.30	317° ✓		NW - pt. 19 - may be 2 m
19	NW corner	24.60	330° ✓		Str 5 much as 1 m
20	STA-ION 2	28.0	195° ✓		
21	NW corner.	3.0	200° ✓		almost a fecal contour -
22	SW corner	7.20	196° ✓		virtually no altitude -
23	NE corner	6.0	150° ✓		not a real mound.
24	[illegible] (post)	14.0	126° ✓		steeper on SW corner.
25	STR 7 NW pt.	13.60	173° ✓		like a fecal contour -
26	SW	15.90	179° ✓		2 black granules in pit
27	SE	18.40	166°30' ✓		also 2 Feces pellets taken
28	Fence corner	21.40	164° ✓		near Str. 7 - 2 pieces
29	Fence pt - below contour	18.60	183° ✓		below Sta. 7 NW pt Str.
30	Station 3	30.00	130° ✓		
31	Str. 8 NE	5.90	278° ✓	0.40 m on S.	Flat on N - some
32	SW	2.0	259° ✓		altitude on S. - fecal contour
33	SE	5.50	224° ✓		
34	Contour pt.	8.60	56°30' ✓		39/35 Loose pieces
35	Contour pt.	8.50	89° ✓		in area of rocks -
36	fecal contour NW	3.80	138° ✓		and is a mound (?)
37	" SW	2.40	133°30' ✓		or fecal contour.
38	TO STA. 4 Hop 2	30.00	122° ✓	Hop 1	Multiple source of erosion
39	TO STA 4 Hop 2	28.00	309° ✓	Hop 2	with AT Base of Hill
40	Wash pt.	230	288° ✓		LEADING UP TO STA-4
41	Wash pt. 3 below pos. destroyed md.	13.0	8° ✓	7m below pt., destroyed mds cobbles	which looks like they were washed from above.
42	Fence post (trench) width	13.80	160° ✓		
43	Fence at level of mds	16.70	61°		about 7 m above STA. 4.
	Inbound stations				
44	TO STA. 5	30.0m	64°		

LAS VEGAS (2)

STA. 5

PT.	DIST	Azimuth Angle	ELEV.	COMMENTS
45. Midpt. Mound(?)	11.50	341° ✓		3 m. dia. - {mound / possible
46. Fence pt, (Bend)	9.0	289° ✓		} 2 m. before deep bowl
47. Fence pt.	14.50	331° ✓		} Fence - probable destroyed
48 To STA. 6	30.0	78° ✓		Mound ✓
49 Contour pt.	26.90	211° 30' ✓		
50. ~~STA~~ SW. ⊥ to 10	9.30	204° ✓	0.75 cm	
51. sta 9 NW	5.80	159° ✓		24 brush on North - lateral portion of NE corner shell wash connection 3 m. of surface beyond.
52. Sta 9 NE	11.80	161° ✓		
53. ~~to STA 7 Int. pt II~~	30.00	79°		
54 to STA 7 hop 2 sta 30.00		263° 30' ✓		
55 ~~to STA 7 hop 3 I PT~~ B 0.00		6° ✓		
56 to Sta 8 hop 4 sta 27.70		166° ✓		
STA. 7				
57 Sta. 10 NW corner.	11.20	94° ✓	1.75 on East	
58 looter's pit - ~~ab~~ comes in Mound	15.30	112° ✓		looter's pit 6.25 m long.
59 SW corner	7.30	134° ✓		
60 SE corner	15.70	143° 30' ✓		
61 SE corner, looter's pit	14.00	125°		2nd looter's pit 1.5m wide.
62. NE corner, looter's pit	11.40	128°		

N77-5-55

#105 Los Cocos

Elevation map

Some SPRS deleted in final version → 29 de Junio 1977

Bells

Wood

Chaparral

Stat 1

Stat 2

Stat 3

Stat 4

SPR 5

SPR 6

SPR 7

SPR 8

SPR 9

SPR 10

SPR 11

SPR 12

SPR 13

SPR 14

SPR 15

SPR 16

SPR 17

SPR 18

SPR 19

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SPR 1000

Plowed in 1977

Stream - Chaparral branch

Ground level

Brush level

W77-5-56

1 June 1977

Azimuths to Los Locos OP 105 cont.

From Maracuby Right (S) turn on road, az. of 213°

Go 1.35 miles, turn on road az of 116° at intersection, take path azimuth 49°, turn to right to get 39° along line of sight, at approx 1.1 mi.

35
180
213

Los Cacos
13 17 5
1/VII/77

Station	Structure Pt.	∠	Distance		Ht adj	Comments
1	NW corner Str. 1	270°	13.4m	✓	.35m	Seems to have been moved or cut our line very approx
	NE " " "	253°	9.5	✓		
	SE " " "	244°	16.8	✓		
	edge of Cut (Stream bed)	239°	12.2	✓		
	SW Corner Str. 2	319°	6.0	✓		in high brush
	SE "	29°	8.2	✓	0.5	∴ obscure
	Pt ⊙ on Back wall (N. side)	336°	12.8	✓		
Int. Pt =	To station 2 Traverse pt 1	43°	30	✓		
	Station 2 to T. 1 (Backsight)	224°	30	✓		
2	NE Corner Str 3	258°	10.7	✓		Also appears to have been moved
	NW " " "	232°	11.5	✓	<.05	
	SW " " "	216°	7.6	✓		
	Str. 4 SW corner	175°	9.8	✓	<.05	Low <0.5 Extremely difficult
	" 4 NW corner	132°	8.5	✓		
	" " Intersection w/fence	137°	19.40	✓		
	Str. 5 SE corner	16°	12.10	✓	<0.75	in grass w/tree
	" " NE corner	17°	18.80	✓		
	" " SW corner	0°	13.50	✓		
~~Pt 3~~ Sta 3	Sta 2 to Int. ~~Pt~~ / Sta 3	32°	30	✓		
Sta 3	SE Corner Str. 6	202° ✓	9.5	✓	<.25	was plowed
	NE Corner " "	224° ✓	10.3	✓		over, very hazy
	NW " " "	203° ✓	12.0	✓		
	Travers To St. 4 Pt 4/1	89° ✓	30	✓		Plowed field
	Station 4 to pt 4/1 (Backsight)	272° ✓	70m	✓		Pt 4/1 is 11 m
St. 4	NE Corner Str. 7	119° ✓	10.7	✓	.25	grade at
	NW " " "	155° ✓	11.7	✓		all mounds in field
	SW " " "	147° ✓	15.3	✓		have been partially
	To Station 5	74° ✓	29	✓		Plowed
St 5	NW corner Str. 8	49° ✓	7.0	✓		
	NE " " "	77° ✓	8.6	✓	.3	
	SW " " "	81° ✓	3.6	✓		
	River Bank	113° ✓	25	✓		
	NE Corner Str. 9	187° ✓	15.5	✓	.3	
	NW " " "	196° ✓	14.3	✓		
	SE " " "	190° ✓	21.3	✓		Very poor corner
	Travers To Station 6 pt 6/1	23° ✓	30	✓		(Backsight must connect to 203°).
	Station 6 To pt 6/1 (Backsight)	42° ✓	30	✓		

1 de Julio 105 Loc.

Station	Structure	pt	∠	distance	Hgt Tm	Comments
6	SW corner	Str 10	92° ✓	23.7 ✓		Mounds in this Field Have Been partially Plowed
	SE "	" "	42° ✓	28.0 ✓	.3	
	NW "	" "	80° ✓	25.3 ✓		
	NW corner	Str 11	135° ✓	11.7 ✓	.3	
	SW "	" "	155° ✓	13.8 ✓		
	SE "	" "	141° ✓	17.5 ✓		
	NW corner	Str 12	151° ✓	16.8 ✓	.5	
	NE "	" "	138° ✓	20.1 ✓		
	SW "	" "	158° ✓	21.4 ✓		
	NE corner	Str 13	224° ✓	28 ✓		Seems to be ~~edge of~~ plowing not sure what is
	NW "	" "	232° ✓	29.7 ✓	.3	
	Traverse to Str 7 pt 7/1		92° ✓	70 ✓		
	Station 7 to pt 7/1 (backsight)		350° ✓	30 ✓		
7	Stream bank to west		244° ✓	25.8 ✓		make slight NOM: dip 6m E of
	Stream Bank where it extends S		176° ✓	44.8 ✓		Fence/line ~~of~~ back to E (~~Str 7~~ Str 5) in ~~approx~~ 176° at line of 89° ~~to~~ Str 7 E bank start to head west.

356
180
176

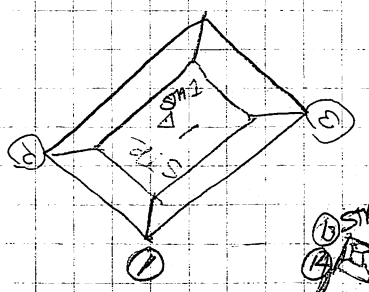
Mapped Los Cocos today. It seems very badly destroyed to ~~me~~ I recall more & larger mounds. The plowed field is really plowed, and some of the strs. could very well be artifacts of cultivation although I do recall strs. in that area. The work was quite difficult due to the overgrowth. Couldn't find any more swords.

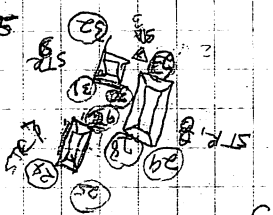
We were going to attempt Vaca Brava, but were prevented by an excess of cows and by getting stuck in a largish mud puddle. The road is getting worse, and I'm glad we don't have to drive that way again. I'm reasonably satisfied about that section of Manacal. The low stuff just isn't visible in the grass. Perhaps I'll walk around there a little bit more Mon. & Tues. next week.

John & I have thunk the pottery from Santo Domingo may be Preclassic, and want me to thunk about putting in a pit. Today we picked up some interesting rubbish left in the road, and lots of obsidian. The obsidian seems to be waste flakes and debitage.

2 JULY 1977
VACA BRAVA #104
13 17 15

N77-5-58A





STA. 1.

PT.	STR.	DIST	∠	ELEV.	COMMENTS.
1)	NW corner 1	18.5 ✓	3°	MOD. STEEP on North	STA 1 is on summit
2)	NE corner "	20.0 ✓	82°	3m. High E and W,	of Str. 1.
3)	SW corner "	19.7 ✓	266°	South slope more	summit badly eroded
				gradual.	
4)	transit to STA 2.	30.0	302°		transiting to STA 2 - STA 2 -
5)	MidPoint - transit to STA 2	30.0	∠ -119° (back to 4)		Plaza between 4 mounds - slightly
6)	transit to STA 2 - 5 sights to 6	30.0 m	306°		raised platform.
7)	to STA 2 - 7 sights to 6.	✓30.0 m	-113° + 2		
8)	7 to 8 STA. 2.	✓25.0 m	297°		

9)	STR 2 NW corner	18.6	274°	< .25 m above platform	platform underlies these 4 structures - corners determined by Str. 2 - SW (10) Str. 3 - SE (13) Str 4 - NE (16) Str 5 - NW (not pt) elevation of platform above surrounding area is ≈ .25 m.
10)	" " SW "	18.1	232°		
11)	" " SE "	14.0	192°		
12)	STR 3 SW corner	14.7	166°	0.25 m above platform	
13)	" SE "	18.3	140°		
14)	" NE "	14.7	116°		
15)	STR 4 SE "	13.7	80°	0.5 m above platform	
16)	" NE "	19.3	45°		
17)	" NW "	16.4	22°		
18)	STR 5 NE "	16.7	2°	1 m. above platform	
19)	STR 5 SE "	5.9	335°		
20)	" SW "	14.8	300°		
21)	to STA 3 - (21 to 22)	60 m	303°	STA 3 - IN MIDDLE OF SMALL	
22)	" " - (22 to 23)	60 m	296°		
23)	" " (23 to 22)	58.20 +3.03	123°	PLATEAU CR.	

STA. 3

PT	STR	DIS	∠	ELEV.	COMMENTS
24) NE corner	7	13.20	40°	} 0.20 m elev.	
25) NW corner	"	12.90	17°		
26) SW "	"	7.20	18°30'		
27) SE corner	STR 8	5.70 m	304°	} 1 m.	
28) NE	"	11.0 m	347°30'		
29) NW	"	14.60 m	326°		
30) NW corner	STR 9	3.6 m	45°	} 0.10 m	
31) NE corner	"	7.3 m	77°		
32) SE corner	"	6.7 m	121°		
33) to STA 4 (33 to 34)		30 m.	351°		to the ROAD - (33 to 34)
34) to 33 (to STA 4)		9.20	145° 325°		on the road (34)
35) (34 to 35)		59.20	16°		35 to 36 bend in Road.
36) 35 to 36		60.0 m	82° ✓		
37) 36 to 37		60.0 m	80° ✓		on the Road
38) 37 to 38		30.0 m	84° ✓		- slight bend in road.
39) 38 to 39		60.0 m	60° ✓		- along rd - slightly off it.
40) 39 to 40		3 m	335° ✓		- jog back on to road.
41) 40 to 41		60.0 m	60° ✓		- along road
42) 41 to 42		60.0 m	24° ✓		- along road > flanked by palm trees
43) 42 to 43		22.20	89° ✓		down the Road - a bend.
44) 43 to 44		60.00	149° ✓		- line from bend in Road to short palm tree
45) 44 to 45		34.00	163° ✓		(45) is on a mound near site.
46) 45 to 46		9.9	-351° + 171		(46) is Sta. 4

STA. 4

47					
48	S.E. corner	STR. 10	5.5 m	358°	
49	N.E. "	" "	11.9 m	358°	Seem to be sloping out
50	S.W. "	" "	8.8 m	290°	
51	N.E. Corner	STR. 11	17.8 m	275°	almost flat west side .1 m
52	N.W. "	" "	17.4 m	272°	out 5 about .4
53	S.E. "	" "	13.4 m	252°	
54	N.E. Corner	STR. 12	8.3 m	234°	.75 m high approx due to overgrowth
55	S.E. "	" "	9.0 m	189°	
56	S.W. "	" "	16.3 m	196°	
57	S.W. corner	STR 13	12.2 m	166° ✓	.4 m high
58	N.W. "	" "	7.9 m	164° ✓	
59	N.E. "	" "	10.1 m	125° ✓	
60	S.W. Corner	STR. 14	12.1 m	120 ✓	
61	N.W. "	" "	12.0 m	103° ✓	.4 m high
62	N.E. "	" "	15.4 m	100° ✓	
63	S.W. corner	STR. 15	14.8 m	72° ✓	.6 m high
64	S.E. "	" "	6.0 m	73° ✓	
65	N.E. "	" "	9.7 m	30° ✓	
66	N.W. Corner platform	one above	13.3 m	25° ✓	
67	N.E. corner platform	above STR.	17 m	35° ✓	
68					

N77-5-59

2 de Julio 1977

#104

Vaca Brava trip

Manacal - main road azimuth 162°

mileage to Los Cocos turn 1.0 m
" " Las Vegas turn 1.4 m

Las Vegas azimuth 96°

Distance along Los Cocos road to Vaca Brava turn (underside) azimuth at small turn to VB main road (121 (+180)) 301°
azimuth at main V.B road 234°; back to 270°
distance at L.C road to V.B take 0.2
for all distances on V.B road to V.B
VB to swing gate 0.3 + swing gate to wire gate by cow road 0.15 + wire gate to wire gate by pens 0.25 + wire gate to L.C. road swing gate 0.1 + 0.2 to main road 1.0

~~Vista Linda to Monte Grande~~

4 de Julio 1977

N77-5-59 bottom

to Las Tunas

highway to bend .2
Road to river .35
River turn to Las Tunas Turn .85

gates 1. cyclone swing gate
2. cyclone swing gate
3. on L.T road wire gate turn r/l turn
4. double wood swing on Hacienda property 1.1 m/f turn
5. wood swing 1.2 m r/l turn
6. wood swing 1.35 r/l turn
7. wood swing on overgrown road to site

Las Tunas turn to hacienda 1.2; azimuth of section in hacienda 75° to 93°
" " to final L.T turn 1.4; road az. L.T. 90°
along road to site can drive 0.3 m. to new fence constructed
8-10 min walk past that; azimuth of path 105°, 70-8 m

To Macondo

from Las Tunas turn to San Bartolo Arriba turn
San Bartolo to road split
along left branch is Hacienda Macondo buildings
road Grown bldgs to site

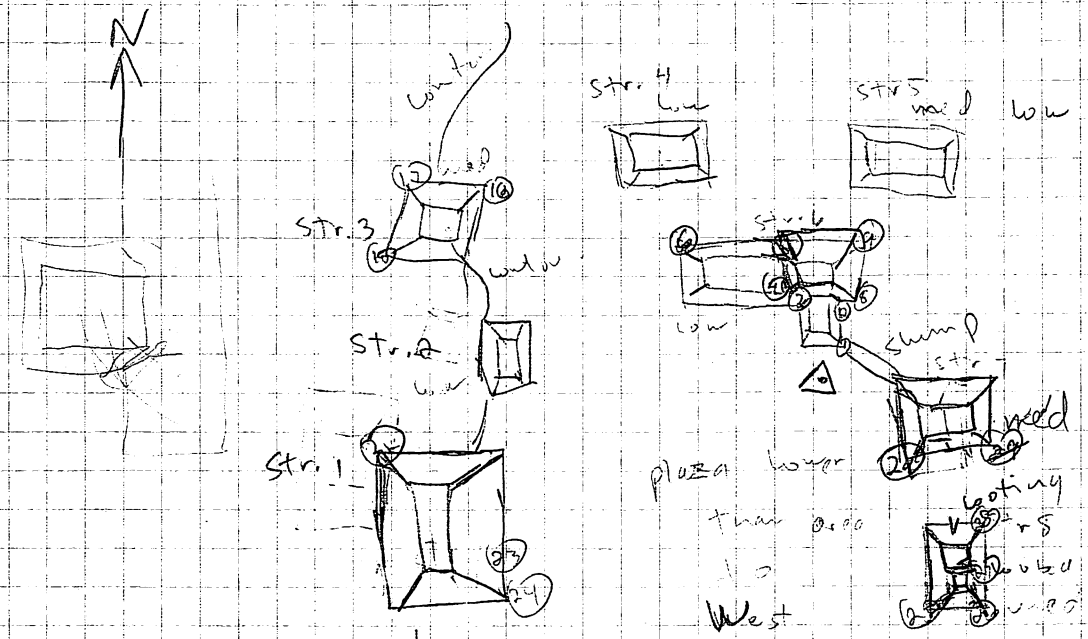
To San Bartolo Turnoff	.65	Hacienda	1.6	La Bombita Hacienda House	0.7
To Fork	.70	To site	2.0	La Bombita to Stock Boundary	1.0
Took Left Road		From Macondo to Mica	2.8 m		
R to Mica	.8	To Highway	3.4 m		
2nd Stream R to Mica(?)	.15	San Bartolo to La Mica Road	1.8 m		

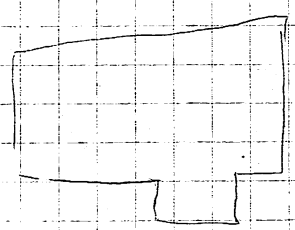
4 de Julio 1977 — [12] [15] — N97-5-60

[5] Macon B — Moundsnear DATUM PT — #12 cont.

1.	Mound A	N.W. corner -	225°	14.0 M	
2.	"	Summit Summit & Str. Junc.	227°	17.0 M	Points given were on contour - could possibly extend mounds 2M. to flat below
3.	"	Saddle & Str. Junc. S.W.	227°	23.20 M	
4	"	S.W. Corner	226°	28.10 M	
5	Mound B	S.E. Corner	232°	26.40 M	
6	"	Saddle Junction	232°	22.90	
7	"	North Saddle Junction	234°	17.50	
8.	"	N.E. Corner	236° 30'	14.50	
9		Fence Post	289°	30.00 M	
10		Fence Post to Corner		2.80	
11.		N.W. Corner	289°	32.80 M	
		Fence Post Datum	76° 156	4.00 M	
		Junc. of 2 Fence Lines	188°	9.10 M.	
	Mound C	S.E. Corner	309°	11.00 M	2M Und. N. 3M High
		N.E. Corner	346°	21.90 M	South.
	Mound D.	S.W. Corner on Platform	353°	30.00 M	Higher on S. side
		S.E. Corner	32° 30'	27.00 M	
		N.E. Corner	30°	56.20 M	30.00 − 13.80 = 26.20
		N.W. Datum on Road.	298° 30'	33.10 M	
	Mound C	N.W. Corner	58°	17.0 M	
	Mound E.	S.E. Corner	58°	19.70	In Back of C

4 de Julio 1977 — Sketch map - Las Tunas — Sp 124





				DIST	ELEV / COMMENTS
1. Str. 6	S platform SE corner	91°	3.0'	1.45	0.15 connection to platform Str. 5 probably slump
2 "	S platform Str. 1 section	44°	30'	3.25	
3. "	S platform Str. NW entrance	344°		3.3	
4. "	Steps Str. SW corner	326°	30'	4.3	Superstr. 1m
5 "	Superstr. NW corner	0°	30'	7.8	
6. "	W platform NW corner	332°		8.25	platform 0.60
7 "	W platform SW corner	304°		6.4	
8 "	Str. SE corner	70°		4.85	
9. "	" NE corner	340°		8.6	
10. Str. 5	SE corner	40°		9.86	1.25 m on E side
11 "	NE corner	35°		16.15	slightly shallower on
12 "	SW corner	359°		9.35	W side
13. Str. 4	SE corner (maybe off due to log)	357°		8.9	0.30 cm
14 "	NE corner	355°	30	14.08	
15 "	NW corner	331°		16.0	
16. Str. 3	NE corner	309°		8.4	1.m on E / .5 on
17. "	NW corner (blocked by tree)	304°		12.813	.75 on N / S on W
18. "	SW corner	240°		14.3	
19. Str. 2	NW corner	263°		10.78	1.0 on E ; very shallow
20. "	NE corner	286°		5.9	on W
21 "	SE corner	248°		4.8	2.30 on E side
22. Str. 1	NW corner	252°	30'	17.57	
23. pt. on	fence	187°		14.5	
24. Str. 1	SE corner (on path)	200°		19.1	
25. Str. 8	SW corner	170		16.58	1.30 on E
" "	SE corner + fence pt	152°		19.05	1.60 on W
" "	Superstr. NE corner	143°		15.4	
" "	NE corner	132°		13.3	

U77-5-42

4 de Julio 1977 cont

#124 cont

29. Str. 7 SW corner	164°	7.0	1.2 on W
30. " NW corner	112°	1.8	1.4 on E
31.	83°	8.3	"connection" on NW corner

- Compass on SW corner Str. 1

32. Point to NW corner	2°30' (back 182°30')	11.5 m
33. Point to SE	93° (back 273°)	11.2

PHOTOS

BW roll

1. Las Tunas Str. 7 fr W looking SE
2. Las Tunas Str. 1 N end, Str 2 in for background
3. Las Tunas Students, Str. 3 in background
4. ~~Rest~~ Santo Domingo

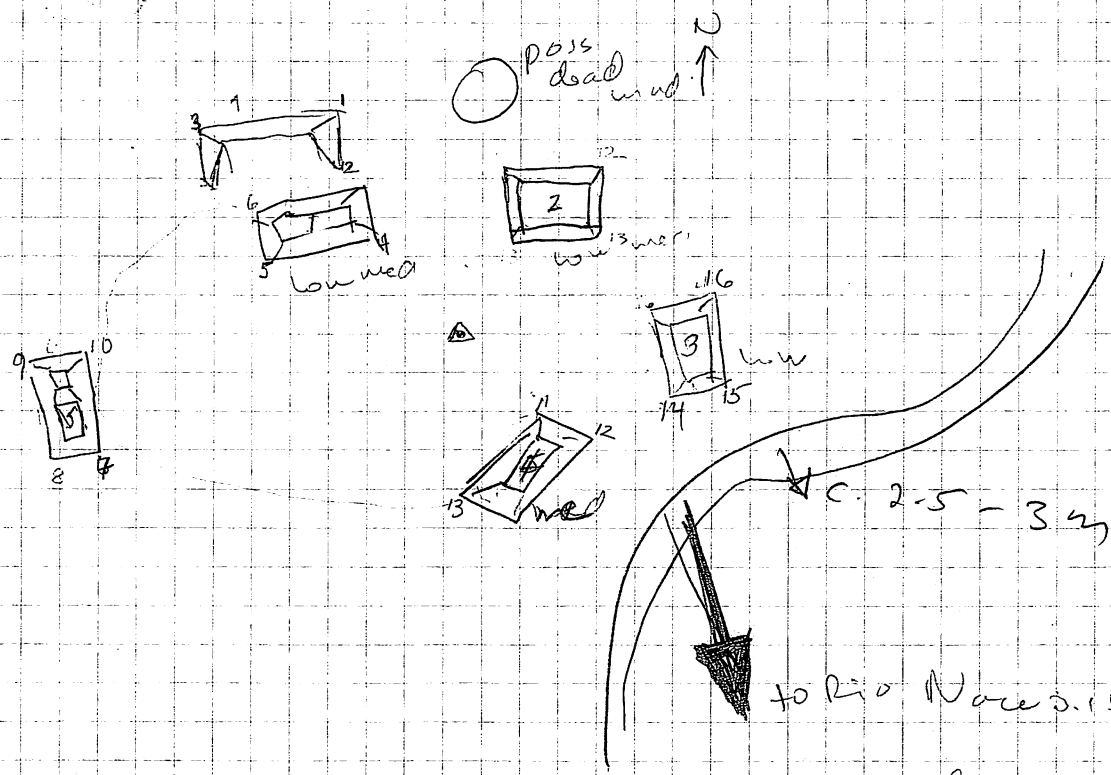
also # on P77-5-41
in with #125 info

7 dec - to 10 1973

~~Unknown~~ Las Flores

#1022 N77-5 L3

possibly unequal to del Oeste of 175



				Elevation	
1	Contour	Contour Line N.E Corner	342°	14.60 M	
2	"	SE Pt where contour fades into Erosion	342°	13.00 M	
3	"	N.W. Corner of Contour	330° 30'	15.00 M	Questionable Bush in way
4	Str. 7	S.E. Corner	353°	3.40	1 M.
5	" "	S.W. Corner	302°	5.70	No clear corner Ground
6	" "	N.W. Corner	318° 30'	9.30	Rises to West
7	Str. 6	S.E. Corner	272°	6.50	(?) Retainer
8	"	S.W. "	269°	9.80	
9	"	N.W. Corner	289°	15.30	Not good cause of Bush
10	"	N.E. "	300° 30'	11.70	" " " "
11	Str. 4	N.W. Corner	234°	8.70	< 1 M
12	"	N.E. Corner	183° 30'	6.40	
13	"	S.E. Corner	184°	13.50	2 M back of Corner is Drop off
14	Str. 3	S.W. Corner	138°	11.40	
15	"	S.E. Corner	144°	15.30	.4 M High
16	"	N.E. Corner	118°	13.30	
17	Str. 2	N.W. Corner	34°	11.70	.75 M
18	"	S.W. Corner	55°	7.60	
19	"	S.E. "	77°	12.50	

7 de Julio 1977

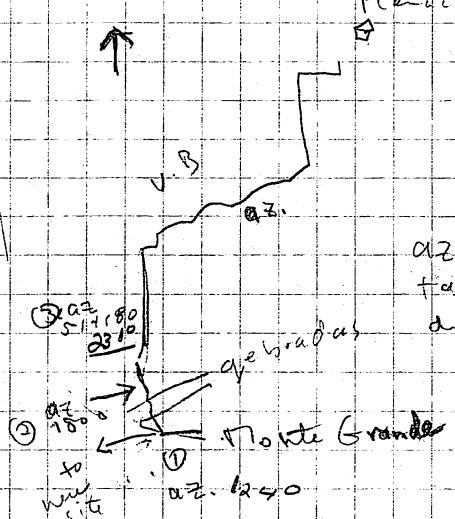
Milepages

59.8 right turn after buildings

61.8 Cabradas + Las Tunas

62.4 Monte Grande (?)

① 0.25 mi. fr. Monte grande to road across quebradas
② 0.45 mi. / to defined road, from ①
③ 0.7 mi. along rd. to V.B Field fr. ②
④ 0.7 mi. V.B Field road to ranch road
⑤ [illegible] mi. fr. new site to rd. across quebradas
⑥ 64.0 63.7 w/w through to new site



MACONDO – 9 de Julio 1927 #12 cont

Map 7-5-65

Top

1.	BACKSITE ON FENCE POST DATUM		114° (294°)	✓ 30 M		
2.	TO NEW STATION ON ROAD		318°	✓ 1500 M	.6 M	
3.	STR. 13	S.E. CORNER	1 ✓ 82°	1 ✓ 22.30 M	VERY SHALLOW ON E.	
4	"	S.W. CORNER	2 ✓ 67°30'	2 ✓ 17.20	ON N. ALMOST FLAT	
5.	"	N.W. CORNER	3 ✓ 58°	3 ✓ 22.50		
6	STR. 14	S.E. CORNER – PLATFORM	4 ✓ 41°	4 ✓ 24.90	1M LOOKS LIKE POSSIBLE PLATFORM	
7	"	S.W. "	5 ✓ 80°30'	5 ✓ 23.90	BUT LOTS OF SOIL	
8.	STR. 12	S.W. CORNER – STR. CUT BY ROAD	6 ✓ 311°	6 ✓ 26.80	1.5 M. ON SOUTH	
9	"	S.E. CORNER – " " " "	7 ✓ 320°30'	7 ✓ 12.10		
10	"	N.E. CORNER (PLATFORM END + HILL BEGINS)	8 ✓ 358°	8 ✓ 20.60		
11	"	N.E. CORNER SUPERSTR	9 ✓ 352°	9 ✓ 37.10	SS. 4M HIGH	
12	"	SE " "	10 ✓ 350°	10 ✓ 23.50		
13	"	S.W. "	11 ✓ 337°30'	11 ✓ 28.60		
	1.) DISTANCE OF STR 9. SW CORNER TO S.E CORNER.			1 ✓ 21.20	2.80	DIST. WAS TAKEN FROM P. IN CON. FIELD OPPOSITE SE CORNER OF STR. 9.
	2.) ANOTHER ~~GAP IN~~ MOUND BEGINS.			2 ✓ 14.00		
	3.) SE. CORNER OF.			3 ✓ 30.70		

SITE NO.	NAME	MAP REF:

LOCATION DETAILS

SITE DESCRIPTION

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION

POTTERY	STONE

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT

DISTURBANCE

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER

PHOTO REFS

NOTEBOOK REFS	DRAWING REFS

11 de Julio 1977

N77-5-65
Bottom

Low mound near Cofradia cigar factory. Turns out to be 1.5 mts of good size, some 2.5 m

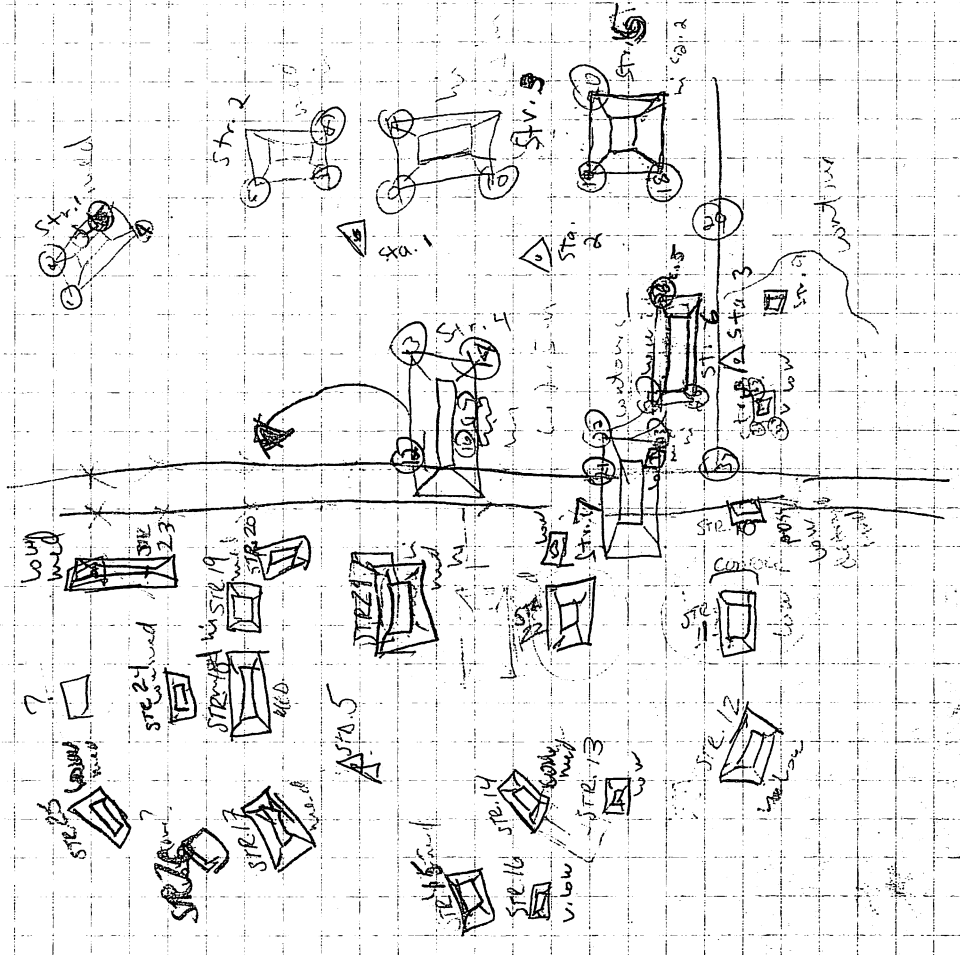
Mapping Data - Los Puros - #125

POINT	∠	DIST	ELEV	COMMENTS
1- Str. 1 SW corner	10°	16.3	1.40 m	Looter's pit N side
2- " NW	21°	21.7		looter's pit N-S
3- " SW corner looters pit	23°	19.3		distance 1 m
4- " SE str. corner	44°	11.9		
5- " SE corner looters pit	36°	19.3		
6- Str. 2 NW corner	66°	8.4	1.75 m	
7- " SW	119°	4.1		
8- " SE	124°30'	12.7		
9- Str. 3 NW corner	178°	6.3	2.25 m	
10- " SW corner	205°	18.4		
11- " NE corner	144°	15.1		
12- Str. 4 NW "corner" (where wall breaks)	293°	13.3	2.5 m	NW "corner" control pt. located on S. side
13- " NE corner	285°	5.6		
14- " SE corner	218°30'	15.3		
15- Sta 1 to Sta 2	220°	25.0		
16- Str. 4 looters pit NE } 2m NS dimension	0°	11.8		Pit large rock dirt, looks like terrace on S
17- " " NW }	350°	13.9		
18- Str. 5 SW corner	212°	11.9	2.25 m	
19- " NW	108	3.0		
20- " NE	123°	13.2		
21- Str. 7 intersect w fence	277°	17.6		Style is bisected by road

11 de Julio 1977 Lunes

#126

Los Pinos



N 77-5-67

11 de Julio cont #135 cont.

Los Puros

	POINT		∠	DIST	ELEV	COMMENTS
22	Sta. 6 to NE corner		253°	12.3	1.5 m	Located on SE corner
23	" SE corner		242°	22.1		
24	" NE corner	located pit	247° 30'	20.1		pit ∠ 1.5 m square
25	" NW corner		253° 30'	21.4		
26	Sta. 6 to SW corner		234°	21.2	0.30 W	Sta. 6 & 7 linked
27	" NW		238°	16.1	0.60 E	by net. contours
28	" NE corner		221°	14.8		
29	Fence point		235°	25.0		
30	Sta. 2 To Sta 3		235°	30.0		
31	Sta. 8 NW corner		139° 30'	1.8	Eq 2.5 m	Sta. 8 & 9 very rocky
32	" SW corner		202°	4.1	pies ∠	
33	" NE		134°	5.5		
34	Sta. 9 NW corner		133°	15.2	∠ 0.25 m	
35	" SW "		144°	16.0	pos ∠	
36	" NE "		128° 30'	18.2		
37	Fence junction		334°	8.5		
38	Sta. 3 to Sta 4		317°	24.0		
39	Sta. 7 NW Corner		72°	18.10		
40	" SW Corner		87°	16.80		
41	" Intersect of Fence		103°	13.60		
42	FACED Contour - West End		60° 30'	18.00	FACED Contour runs into Mound	
43	Sta. 10 - Summit		160°	9.5	.20 M	
44	" N.E. Corner		211°	8.0		
45	" S.E. Corner		218°	10.4		
46	Sta. 11 SE. Corner		231°	8.4	FACED Contour off of Sta.	
47	" N.E. Corner		232°	5.1	.30	
48	" N.W "		280°	6.8		
49	Sta. 12 N.W Corner		236°	19.5		Trough Behind Sta
50	" NE "		228°	18.0	.40 M	
51	" SE.		229° 30'	23.0	~~.35 M~~	
52	Sta. 13 S.W. Corner		312° 30'	11.0	.35M	
53	" SE. "		316°	7.8		
54	" N.W "		334°	11.8		
55	Sta. 14 SW. Point		5°	10.3	on S. & E - Altitude only	
56	" S.E Point		44° 30'	4.0	.35M	
57	" NE "		47°	8.0	Contour	
58	" N.W "		30°	9.4	— Contour fades into Natural Ground	
59	Sta. 15 S.W Corner		10° 30'	11.6	.5M	
60	" SE "		44°	14.60		
61	" N.E "		32° 30'	19.80		
62	Sta. 16 S.E. Corner		8° 30'	23.70		
63	" N.E "		5°	25.70	.30 M	
64	" S.W		1°	21.70		
65	Sta. 4 to Station 5		20° 30'	28.40		
66	Sta. 17 N.E Corner		329°	16.1	.40 M	
67	" SE. "		309°	4.0		
68	" SW "		281° 30'	9.6		
69						

70	STR-18	S.W. Corner	357°	9.40 M	1 M	EXTEND 2 M FURTHER TO N.E.
71	"	SE "	42°	14.3		
72		N.E. "	22°	20.0		
73	STR 19	NW Corner	46°30'	25.30	1.5 M	
74	"	S.W "	50°	16.4		
75	"	SE Corner	83°	20.0		
76	STR 20	N.W Corner	88°	22.7	.75 M	
77	"	S.W "	101°	17.0		
78	"	S.E "	110°30'	24.8		
79	STR 21	N.W "	110°30	15.0	2M	SLOPE ON EAST-GROUND
80		S.W "	151°	12.4		
81		S.E "	141°30'	2420		
82		FENCE POST	147°	27.40		
83		TREE DATUM ON STR 21	137°30'	13.70		
84						
85						

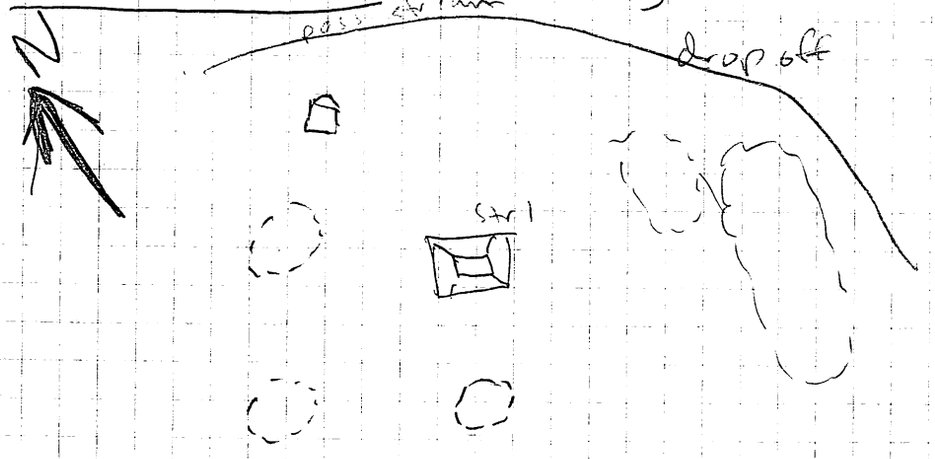
11 de 1955

24 de Julio - Los Pilares #128 Cont. N 77-5-69

1.	STR. 7	INTERSECTS FENCE - SOUTH	15.70	✓ 1	180°	N. SIDE OF BEHIND STR.
2	" "	N.W CORNER	11.80	✓ 2	174°	GROUND IS VERY LOW
3	"	INTERS. FENCE	14.30	✓ 3	151°	
4	STR. 21	N.W CORNER	4.60	✓ 4	292°	
5	"	JUNC. PROJECTION of STR.	6.10	✓ 5	283°	
6	"	N.W CORNER PROJECTION	8.70	✓ 6	298°	ALTITUDE ON N. and S. BLENDS
7	"	SW CORNER "	10.30	✓ 7	289°	INTO HIGHER GROUND LEVEL
8	"	SW CORNER	11.0	✓ 8	275°	
9	"	SE "	11.0	✓ 9	240°	
10	POINTS	ON PLATFORM S. of STR. 21	13.70	✓ 10	240° 30'	
11	"	" " "	15.90	✓ 11	225°	LOW SADDLE BTWN STR. 7
12	"	" " "	12.80	✓ 12	209° 30'	& STR. 22
13	POINT NEAR PLATFORM JOINS STR. 7		8.90	✓ 13	213°	
14	TO PERU Datum		3.60	✓	59°	
15	STATION 6-		30.0	✓	50°	
16	STR. 22	S.W CORNER MAIN STR	6.10	✓ 1	214° 30'	
17	"	SE " " "	10.20	✓ 2	176°	c. 1.00
18	"	NE " " "	8.80	✓ 3	128°	
19	INTER. MAIN STR. 23 & PLATFORM		6.50	✓ 4	118°	
20	S.W CORNER OF PIT		9.10	✓ 5	94° 30'	POSSIBLE LOW STR.
21	STR. POSSIBLE LOW STR.	INTERS. FENCE	13.30	✓ 6	112°	
22	N.W	" "	15.60	✓ 7	97°	
23	STR. 23 N.W CORNER	PLATFORM	10.30	✓ 8	59°	
24	INTER. PLATF. & STR. 23		2.40	✓ 9	73°	FACED CONTOUR ON WEST-
25	STR. 23	N.E CORNER	15.60	✓ 10	24°	BLENDS INTO GROUND
26	"	SE "	12.80	✓ 11	200	c. 25
27	"	POINT ON FACED CONTOUR	16.80	✓ 12	18°	
28	STR. 24	NE CORNER	21.10	✓ 13	4° 30'	.75 M
29	"	S.W "	25.00	✓ 14	5° 30'	
30	"	SE CORNER	19.40	✓ 15	347°	
31	STR. 25	JUNCT. B/W MOUND (STR. 17) S.E	12.50	✓ 16	318°	PROJECTION VERY
32	"	" " "	6.40	✓ 17	316°	SHALLOW
33	"	N.E CORNER	10.00	✓ 18	351°	25 ½ M AT NORTHEND .5
34	PLATFORM OUT FROM STR. 17		5.50	✓ 19	130	
35	TRAVERSE TO NEW STATION	POSS. CONTOUR	27.0		340° 30'	
36	STR. BACK TO TRAVERSE PT FROM NEW STATION		30.0		173° 30'	+ 180 353 30
37	STR. 27	N.E CORNER	21.80		334° 30'	
	" "	SE "	21.30		322°	
		SW "	27.0		322°	c. .75

15 de Julio 1977

Los Perdidos op. [illegible] 50.H.05



( ) = destroyed mnds

Road Azimuth 104° .33 miles along it to Los Cocos / La Champa road (at .3 mile from Los Perdidos turn is big single mnd on pot'ro on left) .3 mi from Perdidos turn to main Manacal

New group on Manacal ranch, probably one of the groups I stumbled over when I got lost 2 yrs. ago. All but the largest mound is pretty much plowed over, but it may be possible to discern a few low strs. on the East. Sherds are evident around the disturbed mounds. In most cases, the mound margins are gone, so that the map will show only dotted areas of former mound construction. Nothing is planted in the field. The situation is another Los Cocos.

The site is on the 100 m contour. The Chamelecon is barely visible. In the low area indicated on the sketch there passing is a stream, but the growth was too heavy to check for sure.

Mapping was hindered today because someone borrowed the 30m tape and did not replace it. It also rained. But the days big event was falling off the road while driving back from Santo Domingo. An eroded section of road gave way and the car skidded sideways, landing the right front tire in a ditch with the car resting on the differential (?). The car is OK. We were pulled out by some friendly passing trucks.

Puerto de los Perros — Pedro Pachero de Ciudad

26 de Julio 1977 Los Perdidos OP 108

	Station				
1	STR. 1	S.E. Corner	23.10		11°
2	"	S.W. "	24.20		2°
3	"	N.W. "	27.0		15°
4	STR. 2	NE Corner	1280		8°
5	" "	SE "	8.20		350°
6	" "	SW. "	10.90		323°
7	STR. 3	N.W Corner	21.60		216°
8	" "	N.E	21.50		201°
9	" "	SE	26.30		200°
10	STR 4	SW Corner	24.30		190° 30'
11	"	N.W "	19.30		168°
12	"	NE "	26.40		177°
13	STR 5	S.E Corner	8.80		155°
14	"	N.W "	6.50		91°
15	"	N.E "	1220		96°
16	STATION 2		27.20		92°
17	EASTERN LIMIT OF	MOUND	5.30		320° 30'
18	" "	" OF PROBABLE MOUND	16.00		84°
19	STR. 6	N.E Corner	25.60		132°
20	"	NW "	21.60		135°
21	" "	SW "	26.60		147°
22	STR. 7	NE	19.20		133°
23	"	N.W	15.80		134°
24	"	S.W	17.00		149°
25	STR 8	N.E Corner	12.90		138°
26	"	NW "	9.10		144° 30'
27	"	S.W "	10.60		161°
28	STR 9	NW Corner	12.80		174°
29	"	N.E "	14.80		162°
30	"	S.E "	18.60		174°
31	STR 10	N.W Corner	30.0		183°
32	"	N.E	ITEMS OF RECORDER 31.0		174° 30'
33		SE "	35.50		173°

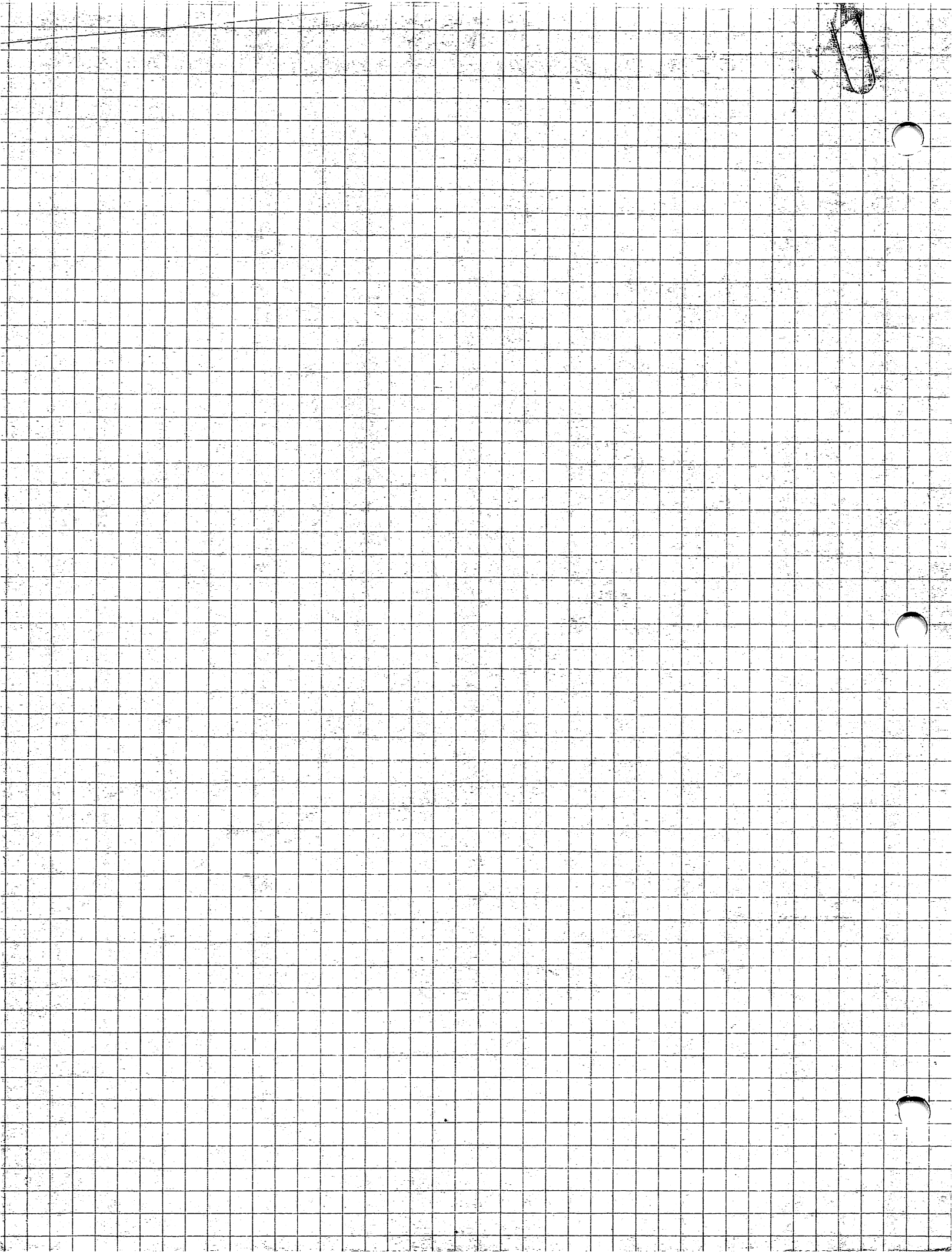
N77-5 71

GROUND ON S. SIDE LOWER THAN GROUND ON NORTH

C. 1 m

PHOTOS

10, 11, 12 Los Perdidos E/South



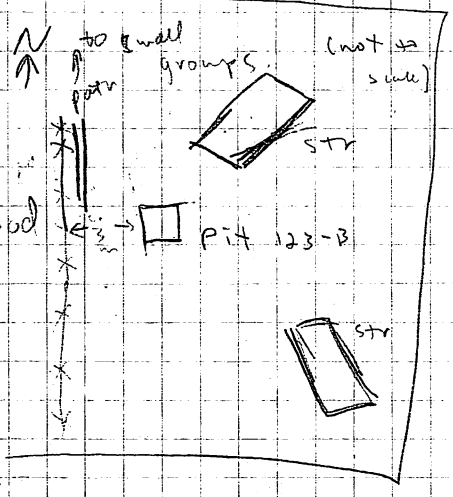
16 de Julio 1977

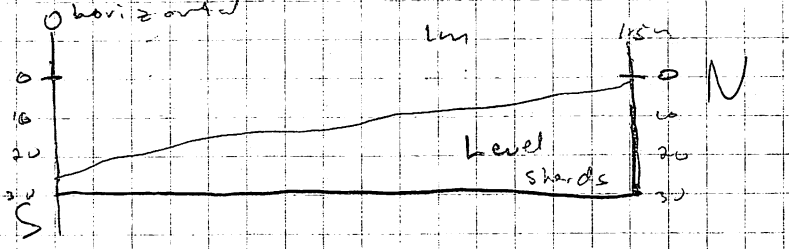
N77-5-72

Excavations at Santo Domingo

OP 123-B

"Plaza" test pit, near Strs and . 1.5 x 1.5 m pit, oriented on cardinal directions. First level is 30 cm. below datum. ground slopes, lower on S than N, and datum corresponds to level of NW corner





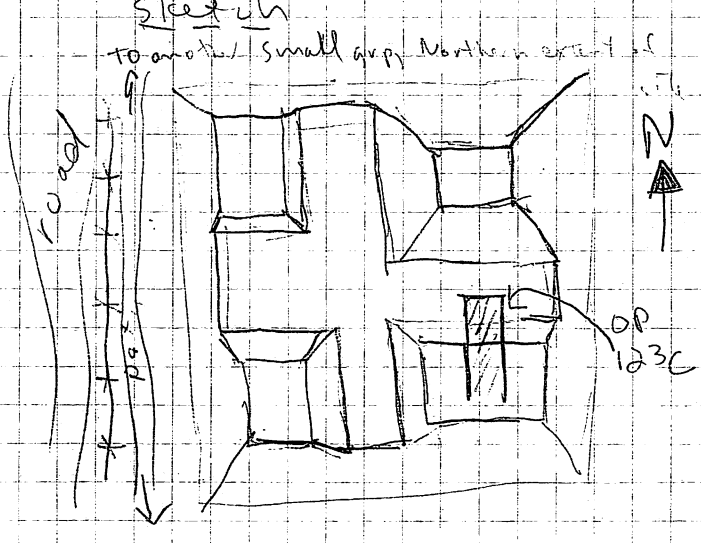
Schematic profile 123-B

This level consists of blackish humus, with many roots, twigs, decaying leaves, etc. Shards are present, and some obsidian; shard gathering is not, of course, the objective of this pit. Working here are Scraftmo and Lais, Rosemary supervising.

OP 123-C

The second excavation entails trenching one of the small mound in one of the 4 small mound groups. The objectives are several: shards, in over burden and, hopefully, scaled construction; obtaining some idea of preservation; obtaining material on small str. construction techniques. This group was chosen for its size - the smallest of the three located groups - and the likelihood that the obsidian washing into the road comes from here. Unfortunately, this small group, like the others, is plagued by small trees. The trench has several in it, but there seemed no better way to orient it so that we could see if a plaza/platform surface existed between mounds and still catch the center of activity on this mound. If the trench were EW similar problems would arise. So far there are few shards and no obsidian. The soil is a dark blackish brown, fine grained, with roots, and other organic material. The trench, which initially is 1.5 m EW by 2 m NS, has rocks appearing near the surface (within 5 cm) in the Southern third; in the N, no stones as yet. The stones are river cobbles, 10 x 15 cm to 15 x 30 cm.

Sketch



While walking through the site I have noticed some cut stones, not many, but some. Some of the cobbles used are quite large, c. 40 x 20 cm. There seem to be gravitic materials here, as well as the usual schistoic types.

1236
At about 25 cm down, rocks are appearing in the S half of the trench. Still no sherds, etc.

1238

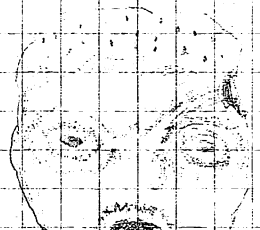
Datum string on SE corner stake 25 cm above ground surface, measuring on S side of stake

Starting on next level, to be 20 cm deep. All of level 1 was humus.

In the second 10 cm of (1238-2) there are a lot of small rocks, and virtually no sherds. The soil is drier, and less black in color, and perhaps a shade more sandy in texture. Correction - it is definitely quite sandy, and the sherds crumble very easily. Level 2 finished by end of work day.

1234

Am having an extension made to N on E side of trench as stones now fill trench. They slope upward from N to S. Very few sherds, but 1 figurine head.

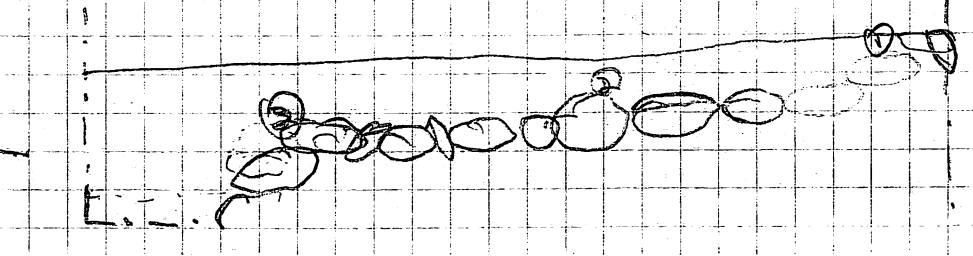


sketch of figurine fr 1236-1 (1:1 scale)

The extension is designed to go below the stones to see if a surface exists between the mounds. Monday I should well start into the stones.

Here, too, at c. 40 cm down the soil seems to be changing in the sandy direction. There are a few more sherds in the Northern extension, immediately above the possible soil change, but still in the black humus layer. I'm uncertain about what's going on - tumble, I think.

Schematic thru trench center



18 de Julio 1977

[T]

Hall ([T]) is working on 123B. He's in the 4th level, 20-30 cm, and there are no sherds. The yellowish brown sandy layer has nothing.

123C

The N extension is going down, and is about 75-80 cm. Sherds came out this morning at the interface of the black and brown sandy layers, but little seems to be in the sandy layer that was at 123B. Revised opinion - there are a few sherds in the sandy layer, but not many. After this dirt is shoved out I'm going to photograph & rip out rocks.

The men are 1m down, and there are no rocks and few sherds. I have begun removing rocks from the N moving South. The rocks are in the black humicy soil, and may have sherds. The new lot is 123C-2

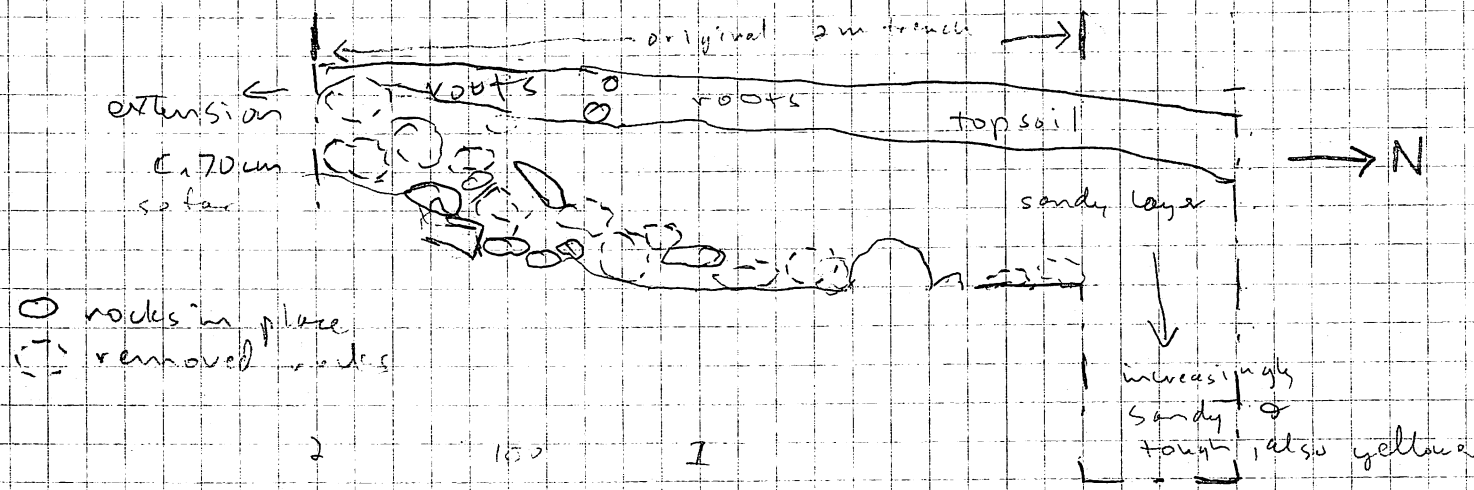
Later - at least half the rocks are out, and nothing of significance is turning up. The large rocks are not aligned, but run every which way, as one would expect from tumble. Under them are small rocks - 5-10 cm in diameter. Chinking stones.

The black and sandy layers are not separated by a definite line, but seem to interpenetrate. This is, I think, due to the roots. All the stones are surrounded by dirt and roots. Most of the time the dirt is the black stuff, but sometimes the sandy level intrudes.

The entire pit has been ripped out, and now we're moving south. So far only tumble and some sherds. One is a little face, quite cute. But no walls, just tumble. Very disappointing.

With the exception of the very deep part of the N of the trench, the level at which nice moving occurs is 40 cm below surface. In the new Southern extension the rocks are right below the surface and seem to stop a bit short of the 40 cm mark. The general shape of the rock line is a curve rising as it goes South. In the Southern section there is less of the big black organic material - some of the rocks are surrounded by it - a dirty matrix. If there was a wall I missed it. But I don't think there was anything recognizable.

Schematic Profile 123C



19 de Julio 1977

123B

Hall is directing the end at 123B. When it reach 1.30m we will have dug through .90-1.00 m of sterile soil, which is enough. He will do a wall drawing while the men clear the next area.

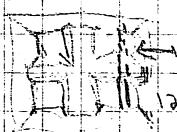
123C

Nothing new - simply extending further south. Some tumbled looking large rocks, small cobbles, in a reasonably organic soil layer, although not as black as before and more sandy. There is however, no sharp or clear division between the organic level and the sandy one.

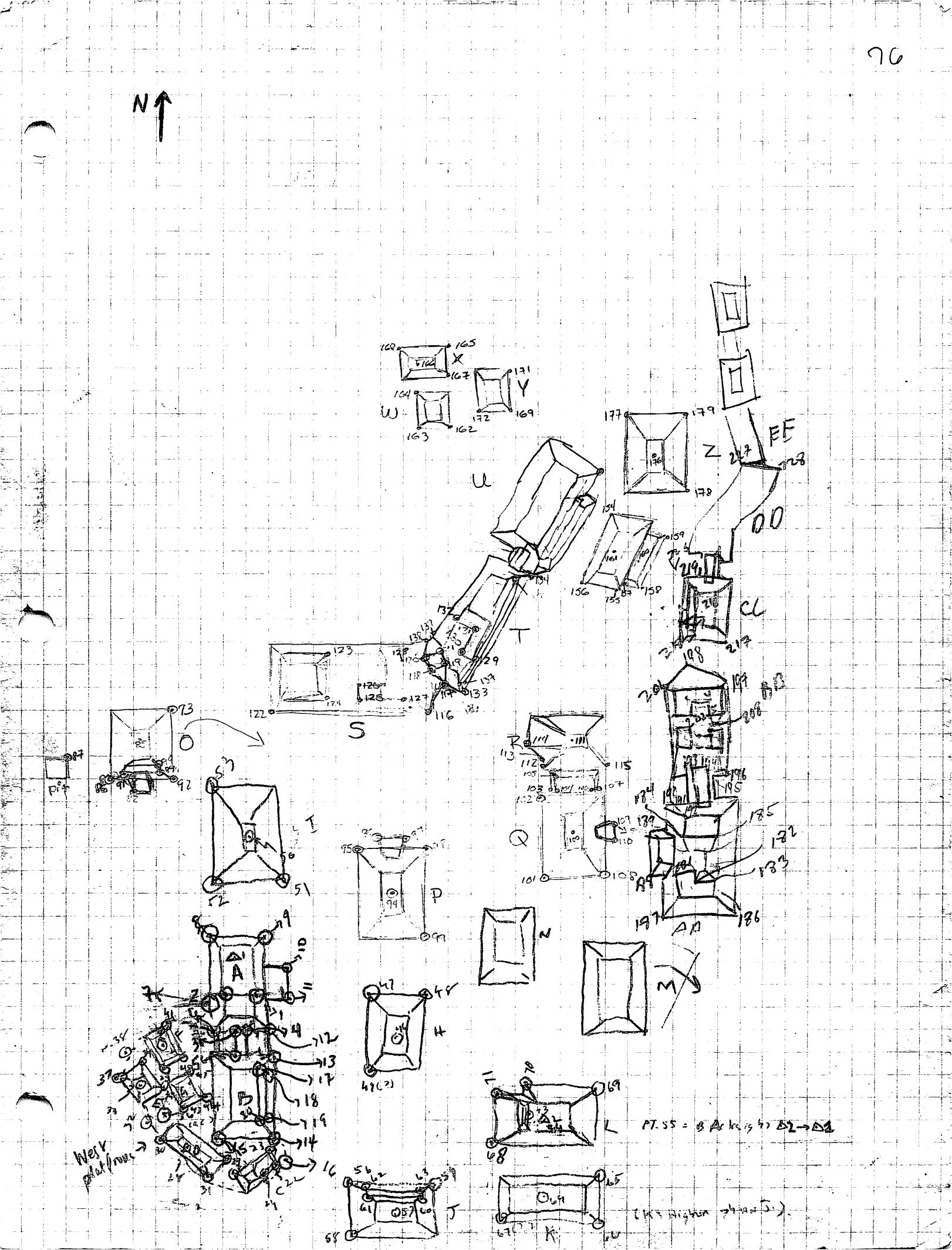
Sherds continue to come out, a mushbin load a cylinder fragment, some rims, but mostly body sherds

123D

This is the new trench, which in a sense will be an extension of 123C to the North. It is receiving a different sub-top for two reasons: it will intersect a different str. and it will be on a slightly different angle than 123C due to 123B, str. orientations of the str. The new str. is the largest of the group and I am hoping to find more preserved str.



On the whole these excavations are disappointing and boring. At least some ceramics are coming out!


N
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L
J
K
Very detailed
PT. 55 = BACKSIDE OF Δ2 → Δ1
(K = higher than J.)

	POINT	ELEV.	∠	DIST	VERT ∠	CORR DIST
	1.55 m					
1	Str. A superstr. NE corner	1700	131°	1681 - 1719	0	✓3.80
2	" NW corner	1566	184°45'	1546 - 1584	0	✓4.00
3	" saddle W summit	2137	173°30'	1995 - 2180	0	✓~~8.50~~ 8.60
4	" saddle E summit	2393	151°	2250 - 2335	0	✓8.50
5	" saddle SW summit w/ vert str	2143	171°30'	1994 - 2194	0	✓20.0 (10.22)
6	" SW corner	3952 (0°∠)	200°	3800 - 3909	-30' dist. only	✓10.9
7	" approx junction A w/ W platform	3933 ∠	224°15'	3885 - 3981	-3°0'	✓9.60
8	" NW corner	3870	295°30'	3799 - 3940	-4°	✓14.4
9	" NE corner	2500	356°15'	2432 - 2567	-7°45'	✓13.4
10	" NE corner stairs	3500	40°45'	3446 - 3555	-5°15'	✓10.9
11	" SE corner stairs	3663	575°	3615 - 3709	-5°	✓9.4
12	" SE corner Str. A saddle	3679	61°0'	3625 - 3735	-5°	✓11.0
13	Str. B NE corner	3172 1	170°45'	3109 - 3235	-7°	✓12.5
14	" SE corner	3112 2	130°15'	2995 - 3222	-5°	✓22.60
15	" SW	3766 3	171°	3451 - 3871	-2°30'	✓22.0
16	" junction B baseline w/ W platform	2400 4	145°30'	2271 - 2516	-5°45'	✓24.4
17	" Superstr. NE corner	2229 5	150°30'	2175 - 2280	0	✓10.5
18	" NE corner terrace	2636 6	137°15'	2629 - 2795	-10	✓11.6
19	" E corner terrace	2200 7	144°45'	2112 - 2287	-2°15'	✓17.5
20	" SE corner Superstr.	2545 8	151°15'	2432 - 2557	0	✓7.5 (17.4)
21	B NW corner	3800 9	151°	3655 - 3944	-2°30'	✓28.9
22	Str C SE corner > W platform SW	1400 1	144°	1213 - 1588	-6°15'	✓37.30
23	Str C NE Corner	3455 2	138°30'	3285 - 3625	-3°	✓34.0
24	" C: S corner superstructure	1585 3	148°45'	1415 - 1754	-6°	✓32.8
25	W platform: SE corner	1950 4	150°	1808 - 2093	-6°7'	✓28.3
26	" , turn south	2794 5	173°30'	2655 - 2930	-5°	✓27.3
27	" , turn west	1700 6	175°30'	1510 - 1885	-7°5'	✓37.2
28	Str D: summit	2750 7	183°	2592 - 2909	-3°10'	✓31.7
29	Str D: NE CORNER D: A linear minimum distributed by area	3800 8	178°15'	3657 - 3943	-2°30'	✓28.6
30	" D: SW CORNER	1100 9	189°30'	0920 - 1280	-7°	✓35.70
31	" D: SE CORNER	3600 10	177°	3428 - 3773	-3°15'	✓34.40
32	3m15 E of where W. platform TURNS N	0997	194°45'	0790 - 1200	-7°30'	✓40.40 (40.6)
33	Str E: summit	3895 (at ⊙) ✓	~~213°45'~~	3634 3966	~~-10°~~	✓33.20
34	" E: NE CORNER	1900	216°	1750 2050	-~~9°~~55'	✓29.90
35	" E: SE CORNER	0714 ✓	207°30'	0552 0876	-7°	✓32.20
36	Str E: rock concentration	0680 ✓	202°30'	0513 0843	-7°	✓32.50
37	" E: NW CORNER	0950 ✓	219°30'	0768 1130	-6°12'	✓32.0
38	W platform heads East	1350 ✓	243°30'	1205 1495	-8°20'	✓27.70
39	Str F: SW CORNER	1600 ✓	229°15'	1455 1745	-6°45'	✓28.80
40	" F: SE CORNER	1300 ✓	223°45'	1167 1434	-6°15'	✓26.50
41	" F: NE CORNER	1709 ✓	231°	1590 1828	-6°	✓23.70
42	" F: summit	1434 ✓	229°15'	1304 1562	-6°	✓25.70
43	Str G: SE CORNER	3300 ✓	230° ???	3180 3420	-3°20'	✓24.0
44	" G. NE CORNER	3342 ✓	199°30'	3250 3432	-3°	✓18.20
45	" G NW CORNER	3068 ✓	212°15'	2965 3171	-3°	✓20.60
46	Str H: Summit	2035 1	80°	1900 2170	+28'	✓27.00
47	" H: NW CORNER	3291 2	68°30'	3200 3381	-4°	✓18.10
48	" H: NE CORNER (too far south?)	2166 3	59°15'	2012 2320	-4°	✓30.70
49	" H: SW CORNER	3056 4	102°	2907 3203	-4°	✓29.50
50	Str I: Summit	0409 5	342°30'	0279 0540	0°	✓26.10
51	" I: SE CORNER	0540 6	20°30'	0440 0650	-9°	✓20.70

	POINT	ELEV		∠	DISTANCE	VERT ∠	CORRECTED DISTANCE
52	Str I: SW corner	3900		325°30'	3822-3977	-2°20'	√15.50
53	Str I: NW corner	1743		321°30'	1555-1928	-6°	√37.10.
54	Station #2	2040		90°	1750-2328	0°	√578
55	Backsite on Station #1	1148		270°	0861-1448	0°	58.7
56	Str J: NW corner	1872	1	238°30'	1705-2043	-5°	√33.7
57	Str J: Summit	3610	2	226°15'	3454-3768	0°	√31.4.
58	" J: SW corner	3800	3	219°	3604-3996	-2°15'	√39.20.
59	" J: NE corner	3617	4	226°	3494-3740	-2°30'	√24.60.
60	" J: Superstructure - E basal corner	3548	5	224°45'	3406-3685	-1°	√27.9
61	" J: Superstructure: W corner	3404	6	232	3240-3569	-1°	√32.9.
62	" J: W. corner of platform	3450	7	234°45'	3287-3613	-1°15'	√32.60
63	" J: E. corner of platform	3735	8	227°30'	3601-3870	-1°	√26.9.
64	Str K: Summit	2773	1√	182°30'	2664-2881	0°	√21.7
65	" K: NE corner	3550	2√	140°15'	3469-3631	-5°	√16.10
66	" K: SE corner	3348	3√	145°	3213-3485	-5°	√27.10
67	" K: SW corner	2625	4√	196°45'	2450-2795	-5°	√34.4
68	Str L: SW corner	3458	5√	229°45'	3381-3534	-5°	√15.2
69	" L: NE corner	3294	6√	32°	3233-3354	-5°	√12.10.
70	" L: Outset stair: NW corner	2918	7√	316°30'	2854-2973	-5°	√11.90.
71	" L: NW corner	2921	8√	280°15'	2845-3004	-5°	√15.80
72	L: Summit Superstructure	1.295	9√	262°30'	1.248-1.343	0°	√9.50
73	L: Base of " "	1.465	10√	267°30'	1.427-1.501	0°	√7.40.
74	Str M SW corner	3796	1	11°	3689-3905	0°	√21.6
75	" SE corner	3812	2	43°	3702-3923	-30'	√22.10
76	" summit	0270 (0°)	3	25°15'	0200-0536	+10'	√33.6
77	" NW corner (on path)	2420 (0°)	4	15°30'	2500-2942	-1°	√44.2
78	Str N SE corner	3811 (0°)	5	348°30'	3688-3935	0°	√24.7
79	" SW corner	3952 (0°)	6	322°15'	3760-3925	-2°	√22.5
80	" NW corner	3650	7	319°	3482-3880	+30'	√45.8
81	" summit	0286 (0°)	8	330	0400-0751	+32'	√35.10.
HI=	Backsite Sta 1 to Sta 2	1.172		270°	0.836-1.40	0°	56.40
154	Sta 2 to Sta 3	1.271		28°	0.850-1.695	+0°50'	84.50
84	Sta 2 to Sta 1	1.779		√338°15'	1.300-2.260	+2°20'	√95.2
85	Sta 1 to Str O - summit	3380		232°30'	3118-3617	0°	√52.4
150.5	86 Str O - SW corner	3305		231°		-3°	
	87 NE corner of pit	3110		5275	2755-3468	-1°	√51.1
	88 SW corner of stairs	2949		226°15'	2607-3370	-4°	√68.1
	89 SE corner platform	3657		224°	3405-3908	-2°	√50.3
	90 NE corner platform	3135		226°30'	2888-3385	-2°	√49.7
	91 SW corner platform	2685		227°	2370-2925	-3°	√62.4
	92 SE corner - Str O	3750		219°30'	3530-3970	-4°08'	√43.9
	93 NE corner - Str O	3100		324°30'	2885-3306	-4°10'	√42.0
	94 Str P - summit	3355	1	√183°30'	3166-3514	0°	√37.8
	95 " - NW corner	3822	2	√197°45'	3681-3963	-5°30'	√28.10
	96 W corner of stairs	3398		179°30'	3183-3504	-3°	√31.0
	97 E edge of stairs	3185		171°	2964-3305	-3°	√34.4
	98 Str P - NE corner	7815	3	√165°15'	2602-3027	-5°	√42
	99 " - SE corner	3195	4	175°30'	2935-3152	-4°	√46
	100 Str Q - summit	3992	1	135°30'	2860-3247	-0°22'	89.2
	101 " - SW corner	3685	2	160°30'	3284-3611	-4°	√44.0
	102 " - NW corner	3120	3	130°	3264-3578	-4°	√31.3

19 de Julio 1977

	Point	Elev		∠	Distance	Vert ∠		78A corrected dist
103)	junction base of saddle w/ Q	3056		128° 30′	2902-3201	-4° 3	✓	39.8 (33°)
104)	SW corner summit saddle	2168		125° 30′	1970-2345	-4° 4	✓	35.4
105)	NW corner summit saddle	2148		122° 30′	1975-2315	-4° 5	✓	34.0
106)	SE corner summit saddle	1800		124° 30′	1609-1989	-4° 34′	✓	37.9
107)	base saddle joins Q	2474		123° 45′	2262-2687	-4° 34′	✓	42.4
108)	SE corner of Q	1500	4	124°	1476-1725	-6° 12′	✓	24 (44?)
109)	N corner stairs - (good side of it) bad reading	3222		134° 30′	? -3455	-3° 8	✓	46.5
110)	S corner stairs	3740		140°	3500-3789	-3° 35′	✓	48.8
111)	Str R - summit	1400	1	119° 45′	1239-1561	-0° 30′	✓	32.2
112)	" - SW corner	3514	2	125° 45′	3633-3392	-5°	✓	24.0
113)	" - NW pt. on platform	3270	3	108°	3164-3382	-5°	✓	22.0
114)	" - N corner	3150	4	97° 15′	3025-3277	-4° 09′	✓	25.10
115)	" - SE corner	3156	5	121° 30′	2933-3384	-4° 02′	✓	45.0
116)	Str S - SE corner	2662	1	102° 45′	2595-2720	-12°	✓	12.2 (2nd under)
117)	" - NW cor - junc w/ T + saddle	3925	2	50° 45′	3878-3969	-0° 30′	✓	9.1
118)	" - S cor saddle summit	3444	3	35° 30′	3406-3482	0°	✓	7.6
119)	" - E cor saddle summit	3355	4	32° 15′	3312-3399	0°	✓	8.7
120)	" - N cor saddle summit	3240	5	11° 30′	3199-3282	0°	✓	8.3
121)	" - NE cor saddle summit	3868	✓ 6	343°	3829-3910	-4°	✓	8.1
122)	" - SW corner	3765	✓ 7	209°	3675-3855	-7°		47.9 (2nd under)
123)	" - N cor of W Sup Str	1600	8	240°	1561-1639	0°	1	✓ 7.8
124)	" - S cor of W Sup Str	17731	9	213° 15′	1689-1773	0°	2	✓ 8.4
125)	" - SW cor of E Sup Str	1722	10	196° 30′	1703-1741	0°	3	✓ 3.8
126)	" - NW cor of E Sup Str	1572	11	217°	1557-1586	0°	4	✓ 2.9
127)	" - SE cor of E Sup Str	—	12	82° 45′	135 (taped)	0°	5	✓ 1.35
128)	" - NE cor of E Sup Str	—	13	24° 15′	190 "	0°	6	✓ 1.9
129)	Str T - E corner Sup Str	1268		23°	1168-1368	0°	7	✓ 20.0
130)	Str T - W end of L	1241		18° 15′	1144-1340	0°	8	✓ 14.6
131)	" - interior cor of L	1067		17° 15′	0955-1179	0°	9	✓ 22.4
132)	" - W end base of L	1251		9° 45′	1139-1363	0°	10	✓ 22.4
133)	" - SE corner	3168	1	67° 45′	3095-3245	-6°		✓ 15.0
134)	" - NE corner	3116	2	27°	1963-2269	-3° 00′		✓ 30.6
135)	" - NW cor of platform	1480	3	25°	1348-1613	-2° 30′		✓ 26.5
136)	" - SW cor of platform	2928	4	42° 30′	2848-3008	0°		✓ 16.0
137)	" - SE cor of platform	3445	5	46° 30′	3370-3539	0°		✓ 16.9
138)	Str S + T junction	3860		344°	3820-3903	-4°		✓ 8.3
139)	Str T - SW corner	3815		244°	3765-3865	-4°		✓ 10.0
140)	Sta 4 to Sta 5	0750		210° 45′	0535-0967	+ 1° 30′		✓ 43.2
141)	Str U - SE corner E side	3815	1	174°	3745-3887	-4° 30′	✓	14.2
142)	" - junc base of saddle w/ T + E side	3435	2	178°	3357-3507	-4° 30′	✓	15.0
143)	" - junc saddle + S side summit w/ U	2795	3	189° 30′	2727-2861	-4° 30′	✓	13.4
144)	" - saw saddle junc w/ T E side	2805	4	187° 45′	2727-2883	-4° 30′	✓	15.6
145)	" - saddle saw junc w/ U W side	2400	5	196° 45′	2322-2466	-5° 17′	✓	14.3
146)	" - base saddle junc w/ U W side	3282	6	209° 30′	3204	-5° 18′	✓	15.5
147)	" - junc platform w/ U	3807	7	102° 30′	3775-3838	-6°	✓	6.3
148)	" - NE corner	3886	8	46° 30′	3825-3949	-6° 30′	✓	12.3
149)	" - NW corner	3620	9	339° 30′	3551-3691	-6°	✓	14.0
150)	" - SW sup str on platform - E side platform w/ U	3687	10	159°	3614-3767	-6°	✓	14.7
151)	" - junc saddle + U + T + Sup Str	3743	11	157° 30′	3662-3823	-6°	✓	16.0
152)	" - SE cor of sup str on E platform	3822	12	148° 30′	3727-3916	-7°	✓	18.8
153)	" - NE cor of platform	3815	13	103° 45′	3751-3880	-9° 30′	✓	12.7

Point	Elev	∠	distance	Vert ∠	corrected distance
154) Str V - NW corner	2730	91° 30'	2645 - 2822	-10° 40'	17.4
155) faced contour joining V on N side					
156) Str V - SE corner	1008	128° 15'	0872 - 1143	-15° 30'	27.0
156) " - SW corner	1995	37° 45'	1880 - 2110	10° 30'	22.6
157) " - junc - S. projection joins V	0800	122°	0668 - 0932	-11°	25.9
158) " - SE corner of projection	0815	119° 15'	0667 - 0964	-10°	29.2
159) " - NE corner projection	0808	113° 15'	0662 - 0953	-10°	28.7
160) " - summit projection	0619	116° 30'	0578 - 0763	-10°	28.2
161) " - summit	1130	114° 30'	1020 - 1240	-10°	21.7
162) Str W - SE corner	3522	310°	3368 - 3673	-3°	30.5
163) " - SW corner	3245	308° 30'	3074 - 3418	-3°	34.4
164) " - NW corner	2450	318°	2272 - 2628	-3° 27'	35.5
165) Str X - NE corner	2645	315°	2450 - 2835	-3°	38.5
166) " - summit	1855	311° 30'	1648 - 2063	-3°	41.4
167) " - SE corner	2460	308° 45'	2273 - 2648	-3° 40'	37.4
168) " - NW corner	2342	315° 45'	2122 - 2562	-3°	44.0
169) Str Y - SE corner	2450	326° 30'	2284 - 2620	-3° 45'	33.5
170) " - NE corner (also summit) 123-D	1980	327°	1790 - 2170	-2° 33'	38.0
171) " - NE corner	3250	334° 45'	3062 - 3440	-1° 55'	37.8
172) " - SW corner	0710	320° 30'	0505 - 0920	-5° 15'	41.3
173) SE corner 123-D	1200	321°	1020 - 1378	-5° 28'	35.6
174) NE corner 123-C (where str's cross)	2880	320° 30'	2713 - 3050	-3°	32.7
175) SE corner 123-C	3008	310° 45'	2845 - 3170	-3°	32.5
176) Str Z - summit (w/ stake)	1215	71° 30'	1049 - 1385	0°	32.6
177) " - NW corner	3775	50°	3628 - 3925	-3°	29.7
178) " - SE corner	1740	89°	1530 - 1950	-5°	42.0
179) " - NE corner	2430	60°	2215 - 2650	-3°	43.4
180) back sight to Z	3.148	208	2720 - 3561	0°	84.1
(142 end, 1 adjustment kt.)					
181) NW corner spire	1981	211° 15'	1765 - 2099	0°	33.4 (33.6)
182) inside corner of L	1991	209	1752 - 2009	0°	25.7
183) E corner spire	1430	202	1301 - 1561	-1° 15'	26.1
184) SW corner spire Z	1749	211° 30'	1605 - 1832	0	16.7
185) SE " " "	2016	197°	1932 - 2101	0	16.9
186) SE corner str AA	3050	195°	2795 - 3206	-2° 45'	31.1
187) SW " "	3284	214° 45'	3117 - 3449	-2	33.2
188) S " Stair "	2817	224	2111 - 2499	-4	25.6
189) W " " "	2785	230 30	2680 - 2901	-4	31.0 (21.0)
190) NW corner SCAP	3057	230 15	2945 - 3614	0	12.3
191) base saddle pin on E side WSW	3202	227 45	3149 - 3255	0	10.6
192) summit " " " "	3077	212 30	3025 - 3128	0	10.3
193) S " " " BB West	3001	213 45	2959 - 3041	0	8.2
194) " " " " " E side	3005	196	2912 - 3049	0	13.7
195) base " " " "	3316	182	3267 - 3365	0	9.8
196) SE cnr BB	3810	170	3754 - 3866	0	11.2
197) NE cnr BB	3500	79° 45'	3445 - 3575	-4°	15.0
198) upper summit of N pole	2686	93°	2564 - 2688		12.4
199) " C C N " " "	2620		2515 - 2711		13.6
200) " " South pole AA NE of E	2800	46° 45'	2736 - 2855	0°	12.9
201) " " cnr EE	2515	90°	2557 - 2572	0°	4.0
202) Steam W part of SW 4 cnr 123 Tower	1410	116	1395 - 1445	0	3.0

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203) NW interior cwm of U2	1054	8	29°45'	1025	1073	0°	✓	4	5.8	
204) NE " "	0988	9	45°	0956	1017	0°	✓	9	6.1	
205) SE " "	1389	10	68	1376	1402	0°	✓	10	2.6	
206) interior U + crosswall	1261	11	210	1244	1273	0°	✓	11	3.3	
207) interior U2 " "	1242	12	228°45'	1227	1257	0	✓	12	3.0	
208) NE interior cwm U2		13	134°30				✓	13	1.30	
209) SE " " "	1588	14	204°45	1585	1610	0°	✓	14	4.5	
210) SW " "	1549	15	220.45	1529	1573	0	✓	15	4.6	
211) NW " "		16	295.5°				✓	16	9.0	
212) center inter U2 U3	2858	1	26-345	2816	2700	0	✓	1	11.6 (8.4)	
213) " " " W/R	3250	2	263°	3080	3022	+3.5°	✓	2	34.2	
214) center interior saddle	2650	3	272°	2565	2736	-1.15'	✓	3	17.1	
215) " base pt interior	3750	4	261°15'	3742	3810	-2°	✓	4	21.8	
216) Summit CC	0880	1	29°45'	0799	0861	0	✓	1	20.2	
217) SE corr CC	3345	2	55°30'	3273	3426	0	✓	2	15.3	
218) SW " "	2692	3	9°	2621	2720	0°	✓	3	14.6	
219) NW " "	2100	4	19°45'	1754	2245	0	✓	4	29.1	
220) NE corner-lower CC	0850	5	24°	0719	0981	-1.5'	✓	5	26.2	
221) NW " "	1545	6	21°30'	1412	1676	0	✓	6	26.4	
222) SE " "	1516	7	21°	1429	1603	0	✓	7	17.4	
223) interior saddle CC	1714	8	29°30'	1572	1856	0	✓	8	28.4	slope on E flatter W
224) " " DD Summit	1637	1	29°15'	1478	1795	0	✓	1	31.9	
225) opposite base saddle pole 215		2	45	1472	1762	0	✓	2	29.0	
226) SW corner str DD	2743		37°	2579	2895	0°	✓	3	5.9	
227) NW " "	2608	4	30°45'	2355	2850	0	✓	4	48.5	
228) NE " "	1645	5	20°45'	1402	1890	-0°8'	✓	5	49.0	
229) Summit DD	0715	6	29°	0698	1090	+1°30'	✓	6	39	
230) straight ridge to summit	0820		177 30°	0656	0992	-20'	✓		33.6	
231) SW corner EE	2735	1	193°	2768	2901	0	✓	1	13.3	
232) NW corner EE	2344	2	238	2292	2396	✓	✓	2	10.2	
233) inter ridge NW corner EE	1935	3	34°45	1895	1976	0	✓	3	8.1	
234) " " " and EE										
235) base pole 2E, E	2193	4	330°45'	2150	2210		✓	4	17.3	(7.7)
236) NE corner 2E	3150	5	140°30'	3111	3190		✓	5	7.9	
237) 2 NW corner ~~SW~~ support	1305	6	210	1278	1334		✓	6	5.4	(112°)
238) NE corner	1289	7	66°30'	1273	1305	0	✓	7	3.2	(166°30')
239) pinnacle with FF to 1560 W side	1726	1	306°45'	1606	1850	0	✓	1	24.4	
240) → Path FF to SE	1620	2	322°45'	1473	1729	0	✓	2	25.0	
241 Summit 2G	1200	3	311°30'	1036	1362	+4°45	✓	3	32.5	
242 SW corner GG	3[illegible]		[illegible]	3210	3567	+4°30'	✓	4	26.6	
243 SE corner GG	2195	5	22°, 15'	2066	2303	0	✓	5	25.7	
244 NE " "	2150	6	324	1950	2350	+15'	✓	6	40.0	
245 NW " "	1500	7	302°	1299	1701	-15'	✓	7	40.2	
1395 Int. Saddle										
246 SW corner summit	1700	1	136°	1528	1853	-30'	✓	1	32.5	
247 NW	2044	2	131°	1849	2220	0°	✓	2	37.1	
248										

1 mi offtrail gravel bank

287)
288)
289)
290)

248	SW cmr HH	3700	154.30'	3611	3789	-6°55'	17.7	
249	NW " "	3660	108 30	3557	3754	-5°0"	20.6	
250	SE " "	1650	147°	1428	1877	-692'	44.6	
251	summit II	3525	30'	3168	3875	+5°30"	40.4	Steeper to S than N
St 8 → 252	summit I (new)	3144	332'	2889	3400	0°	51.1	
14 cmrs → 253	NW terms II	0400	121°0'	0238	0563	+35	32.5	
254	SW " "	3650	48°30'	3555	3745	+6°05"	18.9	
	SE " "	1800	64°0"	1610	1989	+1°30"	37.9	
255)	intersection center II, w side	1000	32°	0894	1104	0°	20.7	
256)	middle center twen II and JJ	1855	17°30'	1806	1903	0°	9.7	
257)	NE corner str JJ	2301	85°	2281	2321	0	4.8	
258)	north center JJ N side	1884	56°15'	1871	1899	0	2.8	
259)	SE cmr str JJ	2556	180°45'	2535	2580	0	4.5	
260)	E corner projection str JJ	2205	217.15	2176	2235	0	5.9	
261)	W " "	2105	232.15	2074	2137	0	6.3	
	S							

262)	SW cmr str JJ	2037	253.30	2009	2064	0	5.5	
263)	center into SW L	2747	216°30'	2689	2805	0	11.6	
264)	St 9 150 cms	2332	270°	2243	2419	0	9	
265)	str K/K SE cmr	1133	352°15'	1113	1154	0	4.1	
266)	" NE "	0965	3°30'	0922	1009	0	8.7	
267)	" NW "	0997	329°30'	0943	1050		10.7	
268)	" summit	0684	335°45'	0648	0719		7.1	
269)	St 26 SE cmr	0738	6°	0671	0807		13.6	
270)	structure) NE cmr	0815	6°45'	0740	0949	6°30'	20.9	
271)	nominated (deer → junk NW "	1152	347.30	1035	1266	+1°30'	23.1	
272)	summit	0386	354°30'	0233	0487	+2°	19.9	
273)	SE cmr super str	0383	1°45'	0294	0472	+1°30'	17.8	
274)	str mm NE	0680	338°30'	0543	0720	0°	17.7	
275)	temple of the five captives SE "	0849	329.30	0762	0918	0°	15.6	
276)	SW "	0888	323.30	0796	0982	0°	18.6	water pt
277)	summit E edge water pt	0613	330.30	0527	0700	0°	17.3	dia 1.30m
278)	fence/man made	0944	332°45'	0720	1065	0	24.5	
279)	between summit	1244	293°	1168	1330	0	16.2	
280)	and 4th reading of nature)							

281)	station 1 150 cms		279.30					
282)	another artificial construction	3774		3596	3950	-3°	35.4	
283)	alienating man from real world (a boogate)						3.9	3.40 wide
284)	another feature pt	2400	231°30'	2180	2620	-5°36'	43.9	
285)	de house NW cmr	3788	172°15'	3553	4025	-4°	4	4 T:1
286)	NE cmr	3500	165°45'	2460	2945	-5°15'	48.3	
		7200						

Elevations

100 = ARBITRARILY STA. 1

STR. A = 99.850

STR. A - B Std. Ht = 99.7913

STR. B. = 99.321 (+ 35 cm.)

STR. C = 96.4215

STR. D = 97.049

STR. E = 97.655

STR. F = 97.419

STR. G =

STR. H = 99.735

STR. I = 101.141

STA. 1 - STA. 2 = 99.510 = Sta. 1

STA 2 HI. = 101.01

STR. J = 97.4

STR. K = 98.237

STR. L = 99.415 (sup. to STR. Summit)

STR. M = 100.74

STR. N = 100.724

STA. 3 - STA. 2 = 101.008

STA 2 - STA 4 = 103.179 = Sta. 5.

STR. O = 101.304

STR. P = 101.329

STR. Q = 101.390

STR. R. 2 = 103.303

STR. S = Sur Sta 4

STR. T = 103.433

Sta 4 → Sta. 5 = 105.065 Sta. 4

STA 5 H.I. = 106.475

STR. V = 101.525

STR. X = 102.448

STR. Y = 102.804

STR. Z = 105.260

H.I. 104.424

H.S. 102.488

STR AA = 100.507

STR. BB = 101.180

STR. CC = 101.988

STR. DD = 102.619

Sta 6

Str EE 102.24

Str GG 105.12

Sta. 7 - H.I. 1.395

106.655 H.I. Figured

Str. H.H. 104.615

Str II 109.877

Sta 8 H.I. 104.961 absolute

Sta 8 103.566

Sta 9 102.629

Sta 9 H.I. 104.129

Sta 9

Str KK 103.445

Str LL 103.744

Str MM 103.516

Santo Domingo

16/VII/77
[17]
123-B-3

Started off at 50 cm down, and Lot 3 is from 50 To 70 cm. The Soil is a Sandy-Clay and appears To be Relatively empty of Sherds. There were Small Roots present, so the Soil was not Completely Undisturbed Lot 3 Thrice ended at 70 cm with nothing besides the Sandy-clay being found.

123-B-3

Still Lot 3, Now at 90 cm down and was much the same as the above 70 cm The soil was the same Sandy-clay only a little drier This time being further down it was somewhat drier. Again no Sherds were found. This Lot ends at a depth of 90 cm again nothing being found.

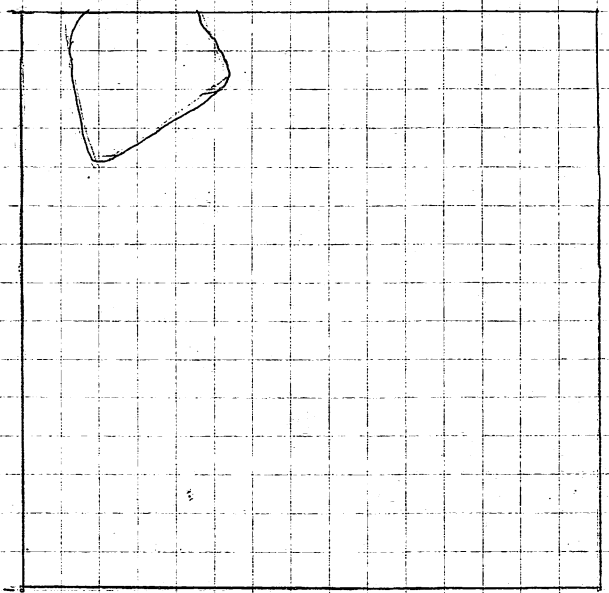
123-B-3

Lot 3 now extending down, To 110 cm. In the Soil is still The Same as That in The last two a (Light Chocolate) med Brown Sandy-clay, with no Sherds (very carefully). The Soil is fairly loose and appears To be getting harder. This Lot, as did The 2 above it, ended without any Things being found.

19/VII/77
[17]
23-A-3

continuing with Trench 123-B. Lot 3. Lot 3 now extending to 150 cm deep. Again the Soil is a Sandy-clay hard pack one large rock was found

= 20cm



19 de Julio 1977 cont

123C

The southern extension has cut 1.30 - 1.40 m into the mound from the original southern termini of the trench. The soil is once again quite black and rich looking and it is full of roots. I think we're the two go together. The rocks are about 0.60 m thick now, with the base level being held pretty much constant. I'm beginning to think that this mound is exactly that - a mound a heap of rocks. The rocks are set on on top of the other, but do not seem to be arranged in an orderly fashion. In other words, no apparent walls. This str. appears to have no structure!

later

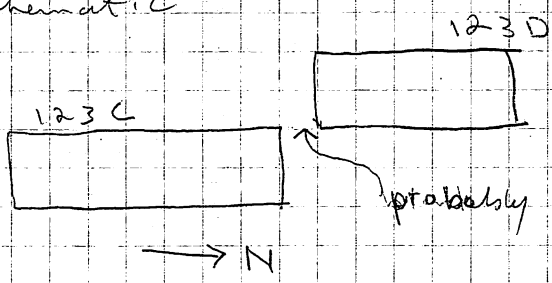
123B

Officially closed - will be backfilled by the end of the day

123D

Clearing in progress. The E wall of the trench will be in a line with the W wall of 123C, so that a continuous profile can be drawn if desired

schematic



123C

Continuing through rubble. On W wall, c. 2.80 m from orig. N wall, going until 3.40 m, is a space with markedly fewer stones. Immediately before it are 3 stones stacked, wall-like but not really convincing. The gap goes for 0.40 m below the surface; below that, c. 60 - 70 m below surface, the rocks are going deeper than the previous work level. The 3.40 m point would, therefore, be of some structural significance, but the rocks in photos 878 are quite irregularly arranged and continue to be of widely varying sizes. Shards continue to be found throughout.

At c. 3.45 - 3.56 back for zero, at mid-trench, is an area of many sherds. It is amongst the rocks in the usual fashion, but ~~but~~ is unusual for the high concentration

19/11/77

17

127-11-3

Santo Domingo

P

kept in place, it was too big to move. This 20cm was the same as above 60cm an elevation was drawn of the west wall and then the Trench was back filled. No this was found below about 30 cm. the bottom of the Trench contained several Rocks of No Significance. There was a meter of Steril So it would seem that the Sherds from the first two lots were wash off from the 2 mete high mound to the water.

Santo Domingo

20/VII/73

123-C-73

(17)

Auto
Grid

Continuation of the outward southward ... Things ... incised ... Middle ... Though ... 55141 – Regularity ... stem ... Cord ... The ... The lack of Rocks in the middle ...

21/VII/73

123-C-1

(2)

Continuation of the outward southward Things ... at 5.6 m South of the North Stake it changes to the outside of the mound.

123C-4

We now appear to be back outside the mound. There was a soil change from the Black Humus from the Tan sandy clay on the inside of the mound. Still No Structural finds, only Jumbled Rock. Terminated This trench at 15 7.30 m N-S.

22 de Julio (97)

123C-5 Backdirt Cut

20/VII/77
[17]
123-D-1

Santa Domingo

opened a trench to the north & west of 123-C. The East end of 123-D (in cross through further north) with the west wall of 123-C 123-D and north to the centre of the South wall of the square where I left a north section. The trench is due to the Root going down through the Top soil is of Stone Spoil Earth & Small Cobbles with Random Jumble as in 123C. I don't know however if it is a structure but should be (Top Layer) we are now carrying on to Sand. Initially this Trench was dug 150 x 120 cm down to a level below the Rubble and Rocks cm deep. Of the Cobbles Rock Burnt & Fire Top cm of Sandy Soil (I did not Remember

21/VII/77
[18]
123-D-1

going Lower deeper in the Top Sandy Clay To make sure I will be taking Initial before excavation and Trowel We are now extending northward to the mound. The Top Layer of Stones is being uncovered (at which point it will be determined Wether it is Jumble or something intended) and cleaned with the Stones cleaned, it should be possible to determin if they were structural or not if not Then I will proceed to Remove Them working to the North and possibly come up to a wall (if there is one) Nothing was seen in the Surface Stones, So now the are excavating down to the original level (Tan Silt) and moving slowly northward. So far the Rocks appear to be only about one Layer Thick (no wall) No wall

21/VII/77

Santo Domingo

[7]

123 E-1

This Trench is 150 x 150 cm and is located on the Summit of the mound 123-D is digging into. Just to the north of 123D. So far nothing but Jumbled stones just under the surface. Still going through Jumbled Rocks. Finding Sherds but that is all. at approx 50 cm down a soil change from the dark Humus to a lighter sandy-clay was encountered. The dark soil appears to be the result of Root action.

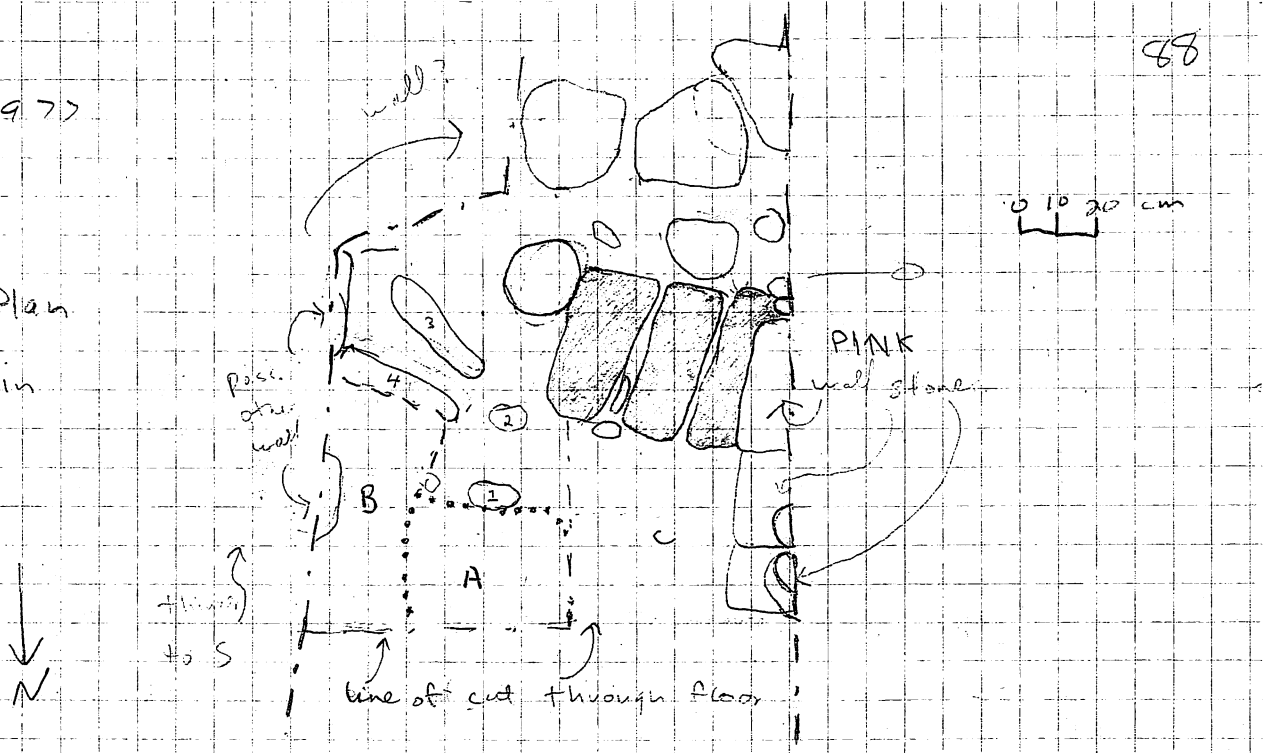
22 de Julio (77)

[5]

123 E-2 sherds in Ham. Layer under surface rocks/ above poss. floor

25 July 1973

Measured Sketch Plan Features in 123 E



A orange crumbly soil in 6-8 cm thick layer, very distinct from surrounding matrix; possible floor

B area where A seems to become intermingled with matrix; A is fairly distinct at A/B boundary, but dips to E wall and disappears

C area where A was still visible as horizontal level, but much disturbed by roots; not visible in profile of trench wall; removed to investigate sub-floor level; rocks of BLUE feature

A overlays a cobble surface which is quite uneven - rocks 1 and 2 penetrate through A on the N, where it is beginning to fade out. I speculate that A overlapped BLUE but has become greatly disturbed by root action. PINK wall and BLUE surface seem to be related - is BLUE a possible doorway / entrance? In the E wall at the trench, parallel to PINK, is another possible wall which lends credence to the entrance theory. Most of the stone work North of these features looks like rubble except for the NW corner where there may be another wall. Returning to the feature area, stones 3 and 4 are aligned and may have been a section of pavement like BLUE. They are smaller than BLUE's stones, however and less regularly aligned.

LOT LISTING

123 B-1 First level of stratigraphic pit, down to 30cm, in the black humus layer

123 C-1 Structural trench first layer, surface to

123 B-2 Second level, 30-50 cm

123 C-2 Among rocks in Str.

123 B-3 Below 50 cm in trench 123 B- an empty lot

PHOTOS

6 123 C ~~after~~ initial clearing of earth, fr/N

7 123 C fr/NE showing rocks and edge of deep excavation

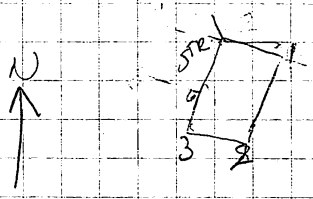
(Frame 5 is blank - camera failure)

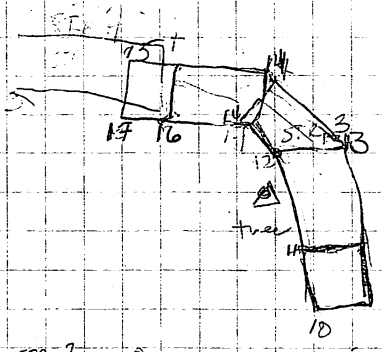
8 123 C in process of cutting through mound, from South; rocks 3.40 m fr/ original N wall of trench

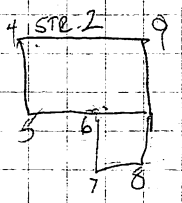
9 123 C, cutting through mound, sitting on W wall

25 de Julio 1977 #115 N77-5-90

Sketch Map La Trista







1	NE CORNER STR. 1	16.8	✓	272°30'	1.5M
2	SE Corner "	11.25	✓	241°	
3	S.W "	24.8	✓	222°	
4	N.W Corner STR. 2	28.1	✓	215°	
5	S.W Corner STR. 2.	28.1	✓	205°	1.25M
6	Junc. STR. 2 & L Protrusion	25.95	✓	261°	
7	S.W. Corner of L	26.9	✓	193°	
8	SE " " "	21.0	✓	185°	
9	NE Corner STR 2	18.5	✓	209°	
10	S.W " STR 3	20.2	✓	171°	
11	Junction Superstr. with Lower Platform	12.9	✓	165°	1M.
12	S.W " North Lower Platform	1.2M	✓	71°	
13	NE Corner STR. 3 - Junction w N Platform	7.6M	✓	57°	
14	Junct. Platform & STR 4 NE Corner	3.6	✓	3°	
15	N.W. Corner STR. 4	8.95M	✓	312°	
16	Junction Platform & STR 4 S.W Corner.	13.8	✓	339°	
17	S.W. Corner of Platform	15.4	✓	327°	

TABACALERA

Str. 14 Std

new station	N		12.40	1	84°
	E		15.20	2	120°
	S		15.50	3	172°
			20.00	4	58°
tp			30.00		194° (10.0')
			30.00		59°
tp	bs		31.00		286° (51.3')
	edge of wall		30.00		151°
	"		14.45		107°
	"		20.50		332°
tp			30.00		317° (138°)
			30.00		155
Str 10	Str 10	SE	11.20	1	312
		NE	12.00	2	325°
		SW	16.76	3	306°
	str 15	NW	24.92	4	300°
		SW	25.20	5	297°
		SE	22.00	6	294°
	tp		30.00	7	66°
	Sp+ sp+str	str 17	11.30	1	82°
			6.50	2	74°
			13	3	57°
			15.30	4	81
			13	5	94°
	SW	str 18	12.10	6	36°
	NW		15.40	7	80
	WE		14.30	8	48°
	SW	str 19	20.30	9	60
	SE		20.90	10	59
	NE		20.30	11	70
	NW	str 20	22.50	12	81
	SW		" "	13	88
	SE	dbh on E	17.90	14	83
			30.00		242° - 180 = 62
			30.00		75°
	S	str 21	13.00	1	143
	W		13.30	2	230
	N		17.80	3	33
		str 22	12.80	4	85
	SE		15.30	5	83
	SW		15.00	6	75
	middle 2m	str 23	28	7	81
	NW		24.70	8	90°
	SW		25.10	9	90
	SE		30.00	10	105°
	middle		27.00	11	156° 2m dia

Str 24

N22-5-91

300m

(138°)

underbrush disturbed

c. 25 + sapling str

c. 25

.75 - 1.00?

Sand NE flow

.5?

5?

.25

c. 1m?

c. 25

c. 50?

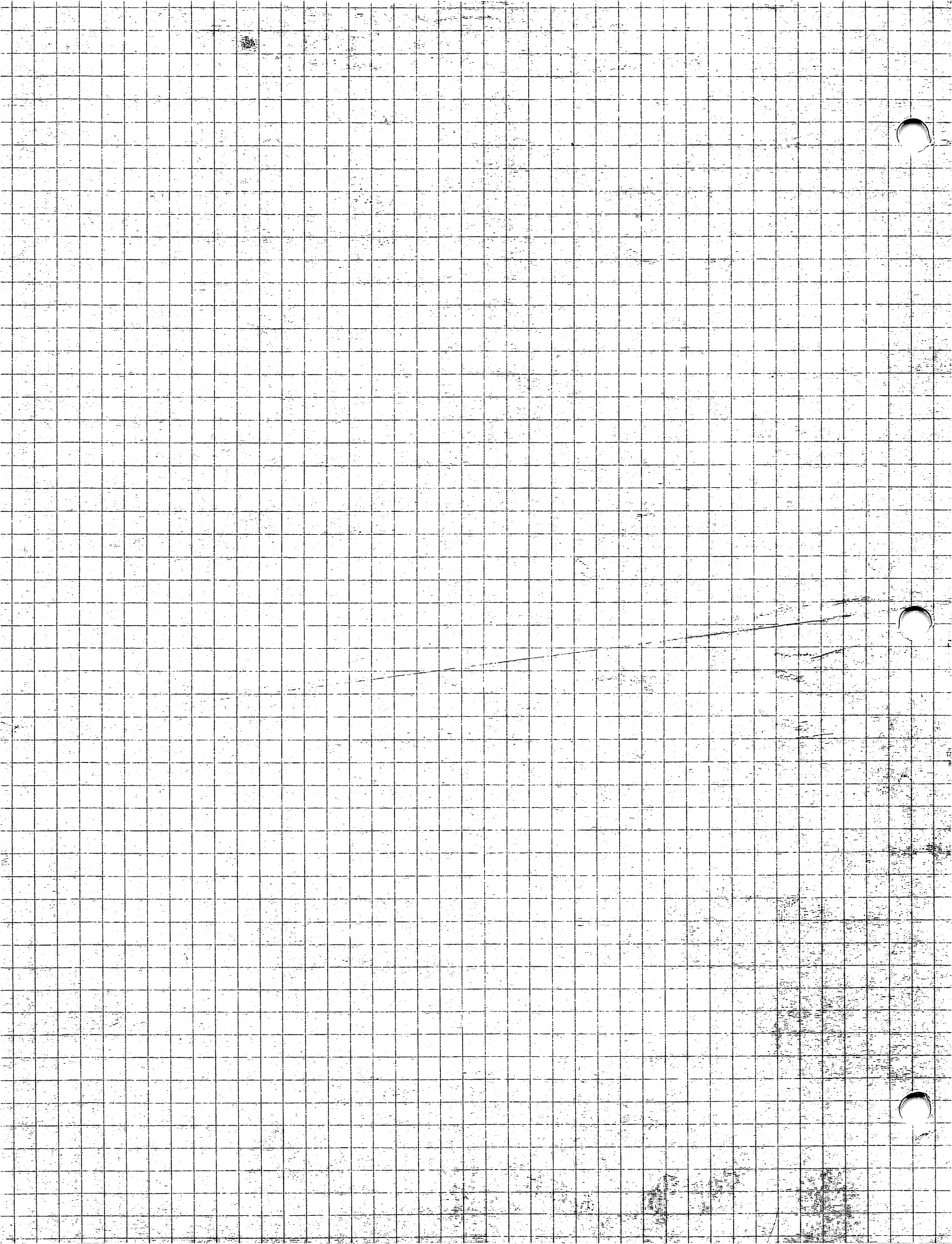
dbh on E of last group

c. 60 cm

TABACALERA

D ~~Hill~~ Loma

1	str 1	NW	104°	18.60	1	negligible
2		NE	101°	22.40	2 ✓	
3		Metin fence SE mound	105°30'	27.10	3 ✓	
4		" " SW	108°	23.20	4 ✓	
5		possible str mound	114°	33.10	5 ✓	5 m dia (may be dirt from road cut)
6		Mound possible mound	112°	12.20	6 ✓	
7		fence distance		14.0		
8		" "		4.0		
9	str 2	NE corn	49°30'	3.0	7 ✓	.75m
10		" NW	314°	5.5	8 ✓	
11		mound/fence	276°	6.30	9 ✓	
12	str 3	E corner	336°	13.10	10 ✓	1m
13		N	30°	18.40	11 ✓	
14		W	294°	20.50	12 ✓	
15		middle of str bldg visible		24.40	13 ✓	298° 2m EW 1.5m NS
16		fence pt	214°	13.50	14 ✓	
17		SE corner str 4	224°	20.60	15 ✓	1m
18		SW " "	239°	25.40	16 ✓	
19		str 4 / fence	235°	16.20	17 ✓	
20		Dostoic pol / fence	254° 254	23.20	18 ✓	
21		[illegible] pt	286°30'	30.00	19 ✓	
22		Barbed [illegible]	120°00 x 150°	34.00	✓	
23		fence	114°	17.60	1 ✓	
24		corner of fence	134°	19.0	21 ✓	
25		~~str 5~~ mid pt	158	11.0	✓	2m dia.
26		SE corner	192°30'	4.20	2 ✓	
27		SW	224°	6.80	3 ✓	
28		" another corner	280°	16.40	✓	
29		" "	312°	7.50	4 ✓	
30						
31		photo: fence 13 + 14		str 2 road cut showing field + rubble construction		
32						
33						
34						
35						



TABACALERA Hill

1	str	scatter SW		156°	1	23.70
2		NW		145°	2	28.40
3		NE		147°	3	28.90
4		N		144°	4	25.70
5		SE		141°	5	30.5
6	str	SE		113°	6	5.30
7		SW		198°	7	5.0
8		NW		081°	8	4.50
9	str	SE		19°	9	8.96
10		NE		20°	10	15.00
11		NW		342°	11	8.70
12				340°	12	10.30
13				342°	13	10.90
14				343	14	13.40
15				340°	15	17.50
16				332°	16	19.80
17				324	17	20.00
18				325°	18	13.40
19	NE			317°	19	10.50
20	SE			035°	20	6.40
21	SW			262°	21	18.50
22				201°	22	21.70
				220°		
	str			186°	1	18.50
		NE		196°	2	13.0
		NW		213	3	15.20
				240	4	30.00
				120		32.00
				320		31.00
	str	SE		135	1	10.00
		NE		246°	2	5.50
		NW		254	3	11.00
	str	SE		265	4	13.50
				257	5	17.00
				208	6	20.00
				202	7	22.00
	str	SE		300	8	23.40
		NE		311	9	20.65
		NW		321	10	12.50
	str	SW		327	11	12.50
		SE		329	12	12.50
		NE		340	13	20.00
	str	NE		348	14	15.20
				337°	15	17.00
				333	16	14
				55°	17	30 m

Much lower on S than N (1.5 or 2)

c. 1.5 m

.75 cm

c. 1.5 m

2m dia

75 cm

10cm N, S

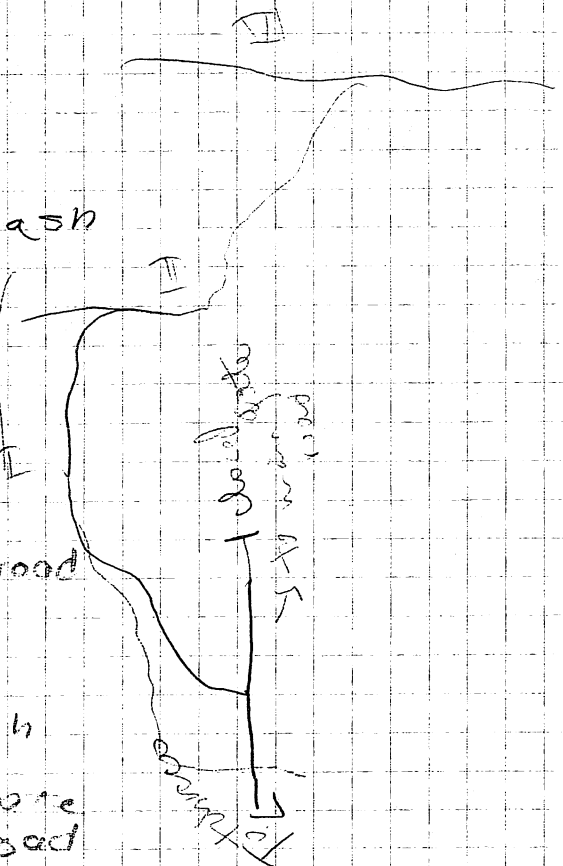
10cm

5 side shoots dead trees

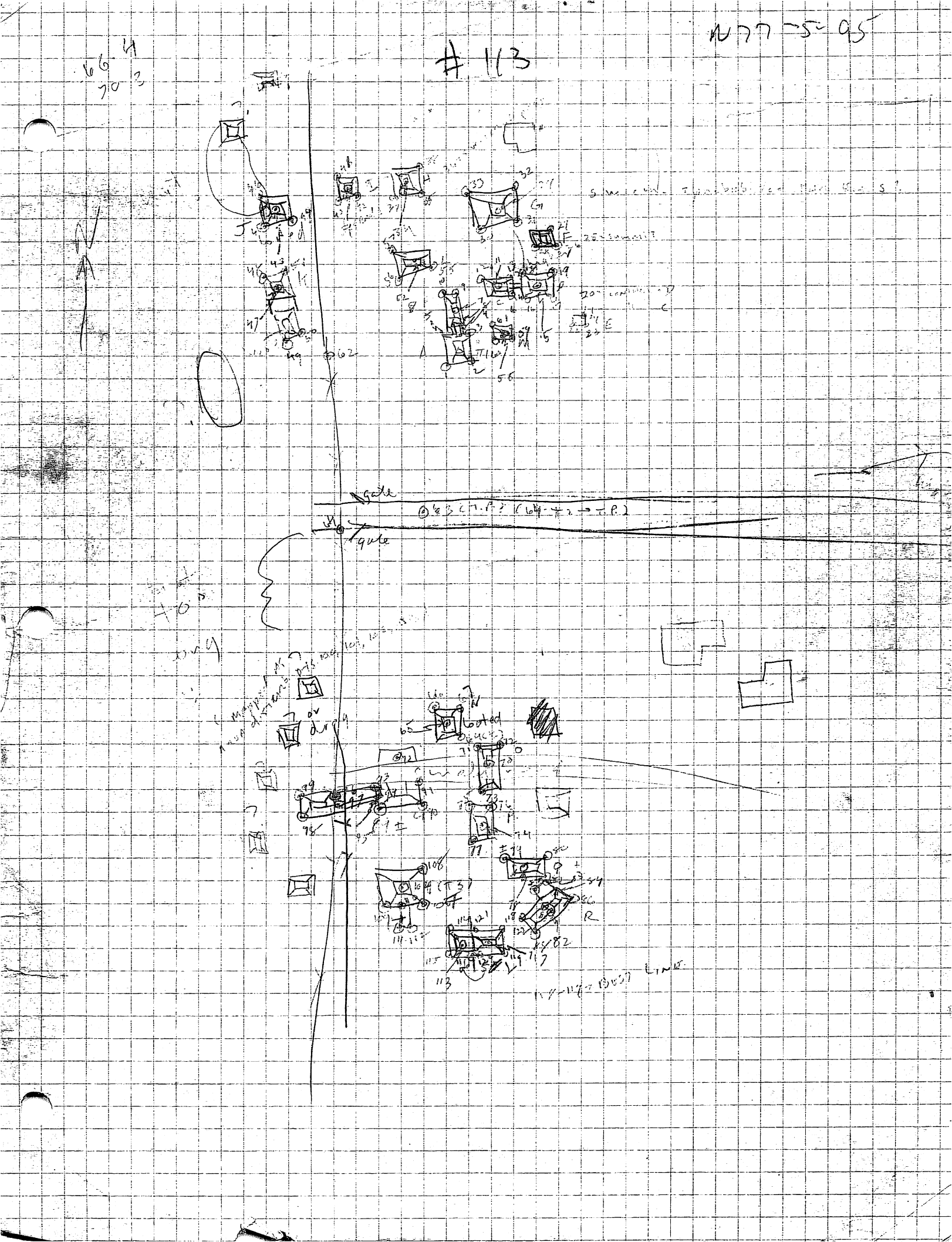
366885 - Capita - N-NE! 1st left past Cofradia on SPS road
361190 - metal gate - directo on road to Capita
Rio Capita - parallel to road
361194 - cross rio pita
361196 - communal composera building of San Lorenzo
361198 - cross rio pita - we're going ~ N-NE w miles rio
361199 - " " " big 29 go cross road E to W
Though rio runs SOUTH
361206 - wood gate
361207 - " "
361208 - Cross rio pita
following dirt road straight uphill
361208 - store on right of road

12 - Augusto

Driving around La Sierra



From
239 - from closed gate on edge of wash
247 - intersection (main road + road)
leading towards
243 - main road cuts into group
another group in middle to S.
of trees ahead
246 - left [illegible] trees
256 - another finca on rio NOC)
La Chompa
261 - LS road intersection w/ main road
traveling ~ West
264 - [illegible]
2685 - Tobacco finca gate
273 - [illegible] road goes off to North
276 - La Sagua
283 - back on LS road - wooden gate
To side of well travel left road
296 - back at Hacienda houses


#113
gate
gate
loaded

Cal 2 adc — Hill 3 — N77-54-96

		middle		left	right	bearing	vert ∠		note
	stn 1								
	str A, SW crnr	2368		2359	2387	25° E	— 1 ↓		3.7.0
	SE	2450	.343	2432	2469	160°30'	— 2 ↓		3.7.0
	NE	2380	.74	2358	2402	52°15'	— 3 ↓		4.4.0
E	6 base saddle pt on A	2150		2137	2173	26°	— 4 ↓		3.6
W	" " "	1969		1945	1994	346°45'	— 5 ↘		4.9
E	" " " B	2138		2104	2172	13°45'	— 6 /		6.8
	summit B	1832		1789	1975	4.30	— 7 /		8.6
	str B SE	2167		2121	2203	17.45	— 8 /		8.6
	" NE	2277	.38	2222	2331	13.15	— 9]		10.9
	NW	2197		2140	2255	57.45	— 10 ↓		11.5 14.6
	summit C	1925		1852	1998	46	— 1	slopes more on N	
C	NW	2495		2418	2572	32°	— 2		15.4
	NE	2740	.59	2643	2832	52°45'	— 3 ↓		18.3
	SE	2439	.63	2369	2509	63°30'	— 4 /		14.0 21.2
	summit D	1995	.47	1889	2101	74°30'	— 1 ↓	slopes more on N	
	SW	2437	.53	2349	2528	77°45'	— 2 /		17.9
	SE	2422		2316	2526	84°30'	— 3 ↓		21.0
	NW	2600		2492	2709	65°	— 4 ↓		21.7
	NE	2619		2494	2744	74°	— 5 ↓		25.0
	contour mrks str D	2400		2301	2499	67°	— 6 ↓		19.8
	" " str C	2532		2450	2614	59.30	— 7 ↓	contour mrks 16.4 to N of E	
	SE cnr str E	2473		2360	2585	92°45	— 8 ↓	E has no elevation	20.5
	SW	2549		2425	2673	96°15'	— 9 /		24.5
	NE	1300		1172	1429	92°	−2°30' 1 /		25.7
	summit F	2122	.66	1963	2283	71°30'	— 2 ↓	slopes more to E than W 32.0	
	SE	1500		1336	1665	79°	−2°15' 3 ↓		32.9
	NE	2965		2781	3149	73°	4 ↓		36.8
	SW	2600		2458	2743	73°15'	−18' 5 /		28.5
	summit G	0995	1.48	0809	1881	52°30'	+1°30' 6 /		37.2
	SW	2438	+.24	2236	2595	47°30'	— 7 ↓		30.9
	SE	2695	222	2503	2888	65°	— 8 ↓		38.5
	NE	3645		3420	3880	53°	+2° 9 ↓	90 cms above ground	46.0
	NW	2561		2369	2752	41°30'	10 ↓		35.3
	summit H	2165	.43	1950	2362	26°15'	1 ↓		41.3
	SE	2540		2342	2739	20°45'	2 ↓		39.7
	SW crnr proj	2538		2303	2728	28°	3 ↓		42.5
	SW crnr	2524		2328	2721	23°45'	4 ↓		39.3
	NE crnr	2685		2465	2907	27°30'	5 ↓		44.2
	summit I	2018		1802	2232	8°	6 ↓		43.0
	SW crnr	2065		1849	2282	5°30'	7 ↓		43.3
	NW crnr	2242	.11	2012	2467	6°30'	8 ↓		45.5
	SE crnr	2084		1874	2294	8°15'	9 ↓		42.0
	summit J	1570	.57	1350	1790	350°15'	10 ↓	E edge looter's pit	44.0
	SE crnr	2135		1933	2336	352°	N 11 ↓	looter's pit 1.9 EW	49.3
	SW " "	1700		1495	1906	345°	−17' 12 ↓	same NS	41.1
	NW " "	2580		2345	2820	348°	+35' 13 ↓		47.5
	summit K	1525	.54	1401	1651	323°	14 ↓	N edge of looter's pit	25.0
	NW	2060		1903	2218	334°	15 ↓	2.4 dia.	31.5
	SW	2058		1917	2190	308°30'	16 ↓	looting back	27.3
	SE	2079		1974	2185	30°+47	5 area badly disturbed		21.1

Col 2 + 10

#113 cont

TH 155 cr sta 2

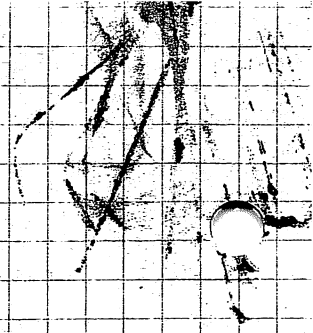
today's saying: "Life is a good handful" - anon.

pt		middle	bottom/top	horiz ∠	vert ∠		note
51	NE cnr fence pt	2180	2060	2300	342°	✓1	24.0
52	Summit L	1695 .90	1582	1808	16°30'	✓2	22.6
53	N cnr spr str	1848	1723	1972	13°	✓3	24.9
54	S cnr "	1871	1766	1979	10°30'	✓4	21.3
55	SE "	2272	2182	2362	16°30'	✓5	18.0
56	SW "	2348	2232	2459	353°15'	✓6	22.7
57	NW "	2344	2205	2482	Ø	✓7	27.7
58	Summit M	2600 .15	2542	2653	120°15'	✓8	11.6
59	NE cnr	2742	2677	2807	112°30'	✓9	13.0
60	SE cnr	2749	2580	2918	121°15'	✓10	15.8
61	SW "	2664	2612	2714	130°	✓11	10.2
62	fence pt	3148	3001	3292	228°15'	✓12	29.1
63	turning pt	3165	2535	3745	200°	13	116.0
64	backsite to turning pt	3700	3405	3995	85°30'	-35'	59.0
65	W side gate	3700	3463	3935	13°30'	-32'	47.2
66	Summit N	2012 1.37	1910	2114	57°30'	✓2	20.4
67	NW cnr	3270	3159	3382	40°	✓3	22.3
69	NE "	3580	3448	3714	53°30'	✓4	26.6
70	S edge road ditch pt	3140	3030	3250	62°30'	✓5	2.60 long N/S 22.0
71	SE cnr (approx)	3316	3213	3423	65°30'	✓6	1.70 wide E/W 21.0
72	middle of the road	3271	3181	3362	90°	✓7	2.50 road wide 18.1
73	NW cnr str O	3535 .40	3419	3654	71°	✓8	23.5
74	NE cnr	3788	3643	3932	78°30'	✓9	28.9
75	SW cnr	3342	3264	3419	100°30'	✓10	15.5
76	Summit str P	2666 .38	2579	2755	125°30'	✓11	17.6
77	NW cnr	3035	2957	3114	119°30'	✓12	15.7
78	NE cnr	3112	3006	3219	120°	✓13	21.3
79	SW cnr	2983	2902	3065	132°30'	✓14	16.3
80	Summit Q	2400	2253	2548	142°35'	-1°10'	1 29.5
81	NW cnr	2450 .28	2207	2494	135°30'	-2°23'	2 28.7
82	NE cnr	1250	1090	1409	137°30'	-4°05'	3 31.8
83	SE cnr	2900	2740	—	148°45'	-5°4'	4 32.0
84	SE cnr spr str, str R	2100 1.09	1899	2302	160°	-1°26'	5 40.3
85	SW cnr "	3015 .41	2815	3208	16°	0	6 39.3
86	NW cnr "	3805 .41	—	4000	158°15'	+1°14'	7 39.0
87	Str NW corner	3652	3490	3542	158°10'	0	8 35.2
88	NE	1905	1700	2105	153°10'	-2°45'	9 40.5
89	NW corner prop str	3630	3452	3810	142°45'	0	10 35.6
90	SW corner	3755	3570	3940	161°50'	-5'	11 43.0
91	STR U SW corner	3102 1.51	3075	3132	225°45'	0	12 5.7
92	" SE	3015	2999	3040	135°	0	13 4.1
93	E road cnt	3442	3412	3475	70°30'	0	14 6.3
94	center pile rocks 2m dia	3000	2946	3055	25°50'	0	15 10.9

Saddle #113 cont.

	POINT	ELEV	∠	DIST		VECT		
95	Pt on road cut of saddle	2595	1 322° 10'	2566	2622	0	✓1	5.6
96	Fence + saddle summit	2472	2 272° 20'	2450	2492	0	✓2	4.2
97	Fence + base saddle	3128	3 238° 30'	3100	3145	0	✓3	4.5
98	STR V N corner	2822	4 313° 40'	2772	2871	0	✓4	9.9
99	" S corner saddle & super	2805	5 295° 45'	2725	2840	0	✓5	10.7
100	SW corner saddle	3369	6 288° 35'	3300	3435	0	✓6	13.5
101	NW corner saddle	3260	7 314° 20'	3188	3328	0	✓7	17.0
102	Rock Cairn N side	3320	8 346° 52'	3220	3420	0	✓8	20.0
103	" E side	3204	9 35° 5'	3142	3265	0	✓9	12.3
104	" S	3300	10 82° 45'	3200	3398	0	✓10	17.8
105	" W	2972	11 328° 5'	2850	3005	0	✓11	24.8
106	STR T New station Sum	1780	1.47 182° 50'	1680	1880	0	✓12	20.0
107	" SE	3158	1 157° 20'	3142	3885	-80' (5.48)		4.3
108	" NE	3170	2 73° 45'	3152	3205	0 (3.63)	✓	5.3
109	" SW	2926	3 236° 51'	2901	2951	0	✓3	5.0
110	S projection junction	2768	4 218° 25'	2745	2796	0	✓4	5.1
111	SW corner projection	3050	5 205° 16'	2995	3102	0	✓5	10.4
112	" SE "	3212	6 193° 38'	3157	3270	0	✓6	11.3
113	STR S sum	3090	7 178° 40'	3000	3170	0	✓7	17.0
114	NW ground lower	3391	8 185°	3345	3465	0	✓8	14.7
115	SW or S	3648	9 186° 15'	3555	3728	0	✓9	17.3
116	SE	3520	10 174° 30'	3422	3611	0	✓10	18.9
117	STR W sum	3062	11 161° 50'	2988	3120	0	✓11	18.2
118	NE	3490	12 153° 50'	3390	3586	0	✓12	18.6
119	SE ground lower or S	3568	13 158° 45'	3460	3678	0	✓13	21.0
120	SW	3550	14 172°	3451	3650	0	✓14	19.9
121	NW	3355	15 169° 55'	3272	3440	0	✓15	16.8
122	STR NW corner	3357	16 150° 30'	3285	3436	0	✓16	20.1

IH 161



N77-5-99

d # 111?
Read inks

Point of first station

pt 1 157°

2 150° Impossible 4) x 2 ½

Read A ⇒ Grp 2 → grp I 95°

Dist Grp 1 → Grp 2 ~~of 3.85~~ .5 km

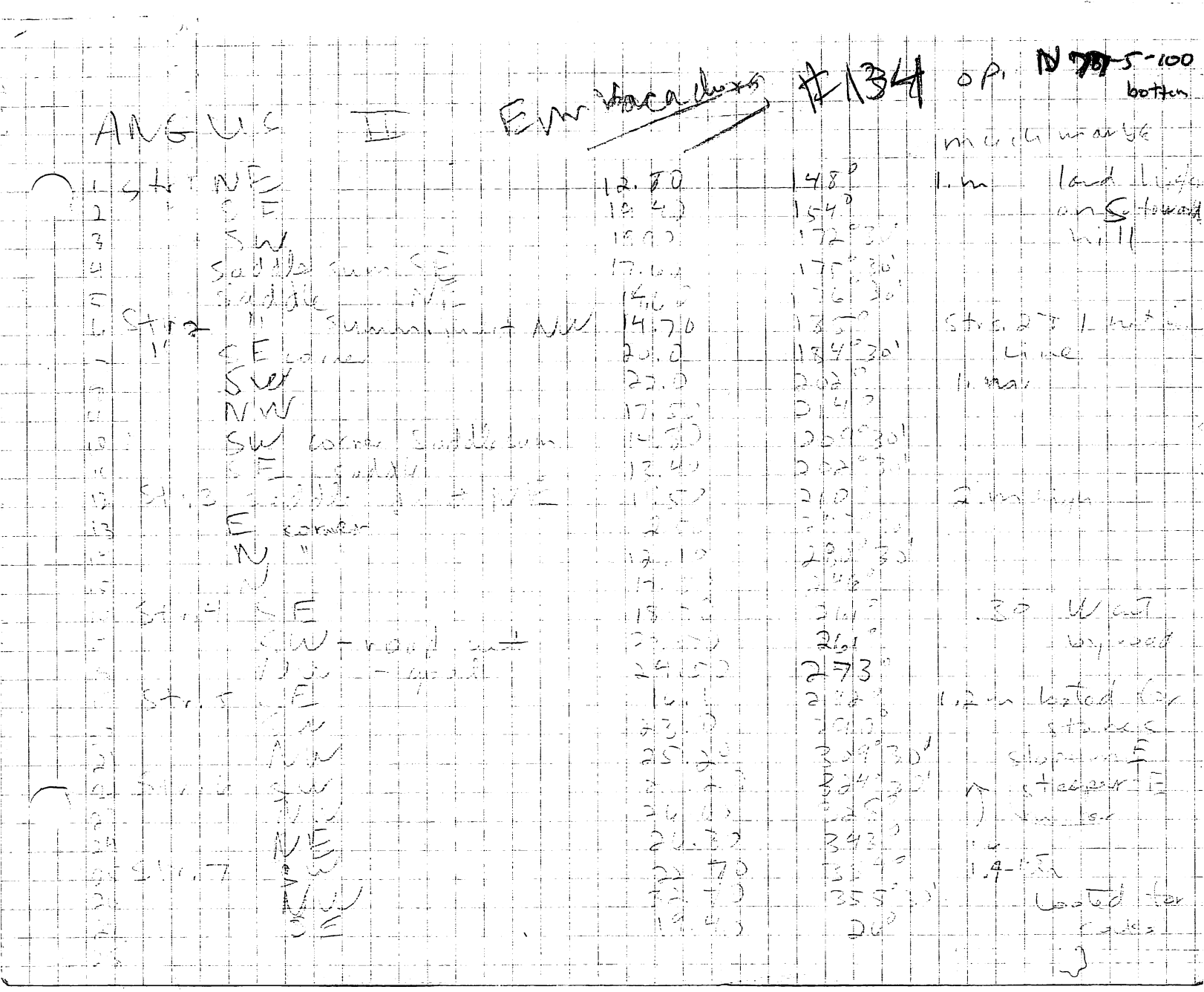
#133

Embarcadero Angus Alms

			dist	∠	elev.
1	str 1	NW	3.80	325°	.5
2		NE	3.40	45°	
3		SE	3.50	142°	
4	str 2	NW	6.30	188°	.4
5		SW	9.10	180°	
6		SE	11.30	15°-	
7	str 3	SW	4.40	128°	.4
8		NW	7.90	91°	
9		NE	13.9	101°	
10	tp		30.80	11°	
11	bs (str 2)		25.00	263°	1½
12	str 4	NE	4.90	59°	
13		SE	6.50	114°	
14		SW	4.50	217°	
15	sadd/summit pt.	S	4.60	200°	.40cm
16	"	N	4.20	249°	
17	"	N 45	5.60	274°	
18	"	S	6.00	254°	
19	str 5	SE	3.90	236°	1½
20		SW	12.00	224°	
21		NW	13.20	245°	
22	str 6	SW	17.20	"	1
23		SE	13.00	291°	
24		NE	17.80	320°	
25		NW	25.00	303°	
26	str 7	NW	24.10	342°	.30cm
27		SW	17.80	351	
28		SE	17.10	345°	
29	str 8	NW	17.40	355	
30		SW	15.00	347	
31		SE	14.10	354	
32	sadd/summit		15.90	3°	
33	"	N	17.50	1°	

#133 N77-5-100 Top

34	small stump	17.50	5°	.75m
35	stalk NW	20.[illegible]	7°	
36	SW	14.20	2°	
37	SE	14.10	35°	1.5m
38	stalk NW	9.[illegible]	39°	
39	SW	12.45	95°	
40	SE	30.00	312°	
41	log	33.00	180°	
42	log stalk NE	14.20	324°	log is longer than 15ft
43	stalk NE	15.80	309°	much of bark on left
44	SE	22.50	316°	& it has 3½-inch core
45	NW	20.50	308°	5
46	stalk NE	15.30	297°	
47	SE	22.20	291°	
48	SW			
49				



Note — redraw Str. 4
be higher

SITE NO.	NAME	MAP REF:

LOCATION DETAILS

SITE DESCRIPTION

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION

POTTERY	STONE

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT

DISTURBANCE

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER

PHOTO REFS

NOTEBOOK REFS	DRAWING REFS

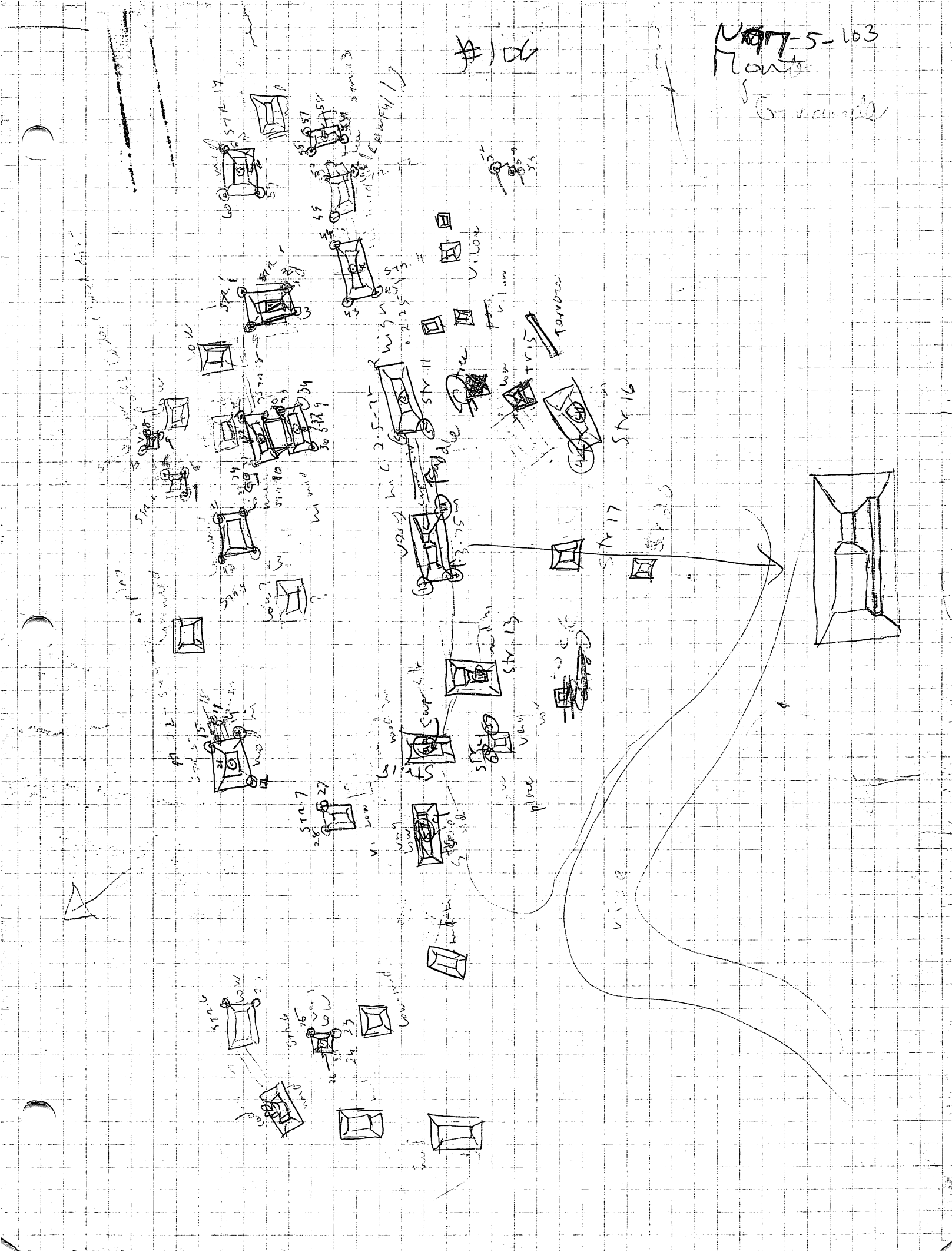
Ajus III ELTIOLMO #135 M29-5-104

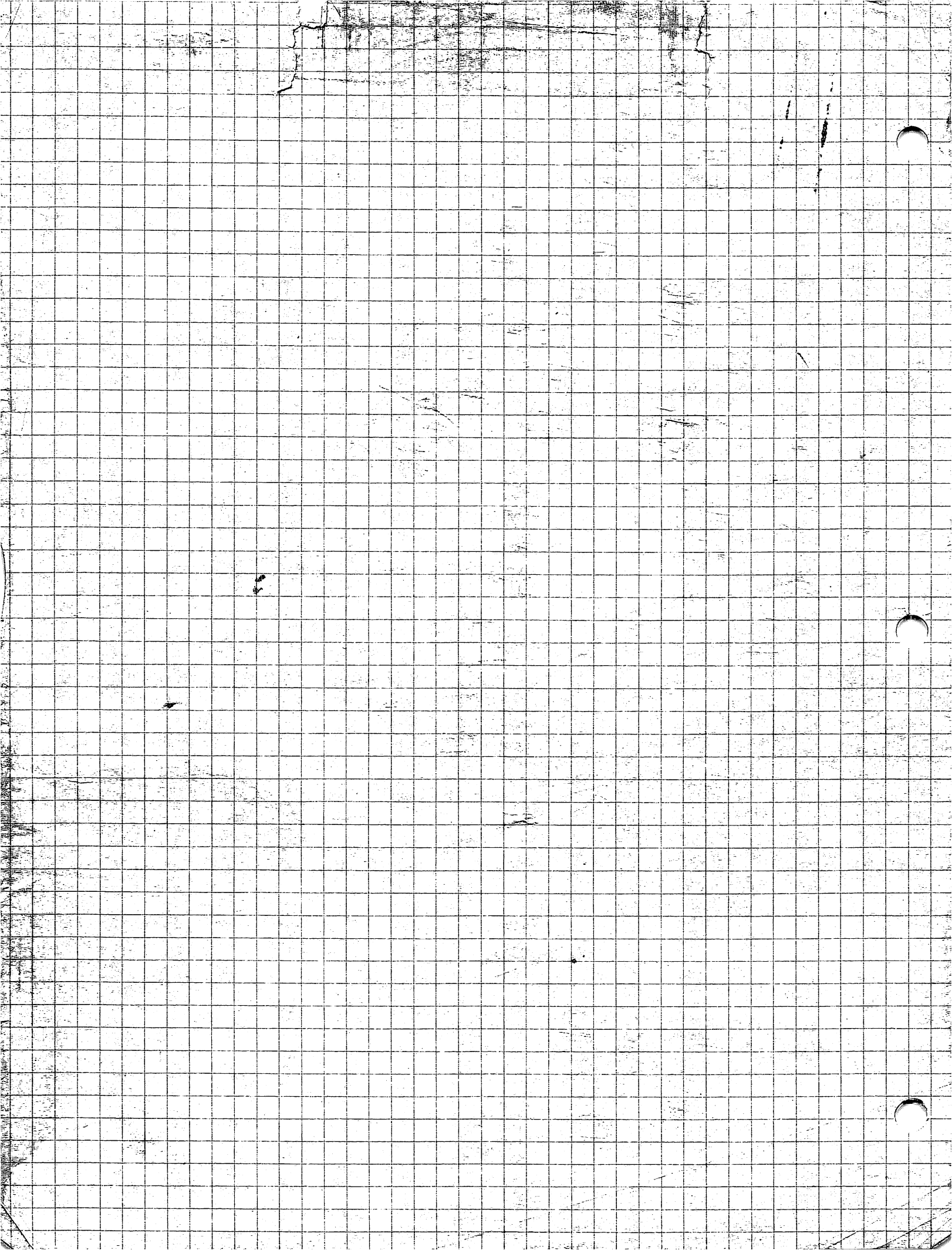
Big cm

16 cm

15 cm

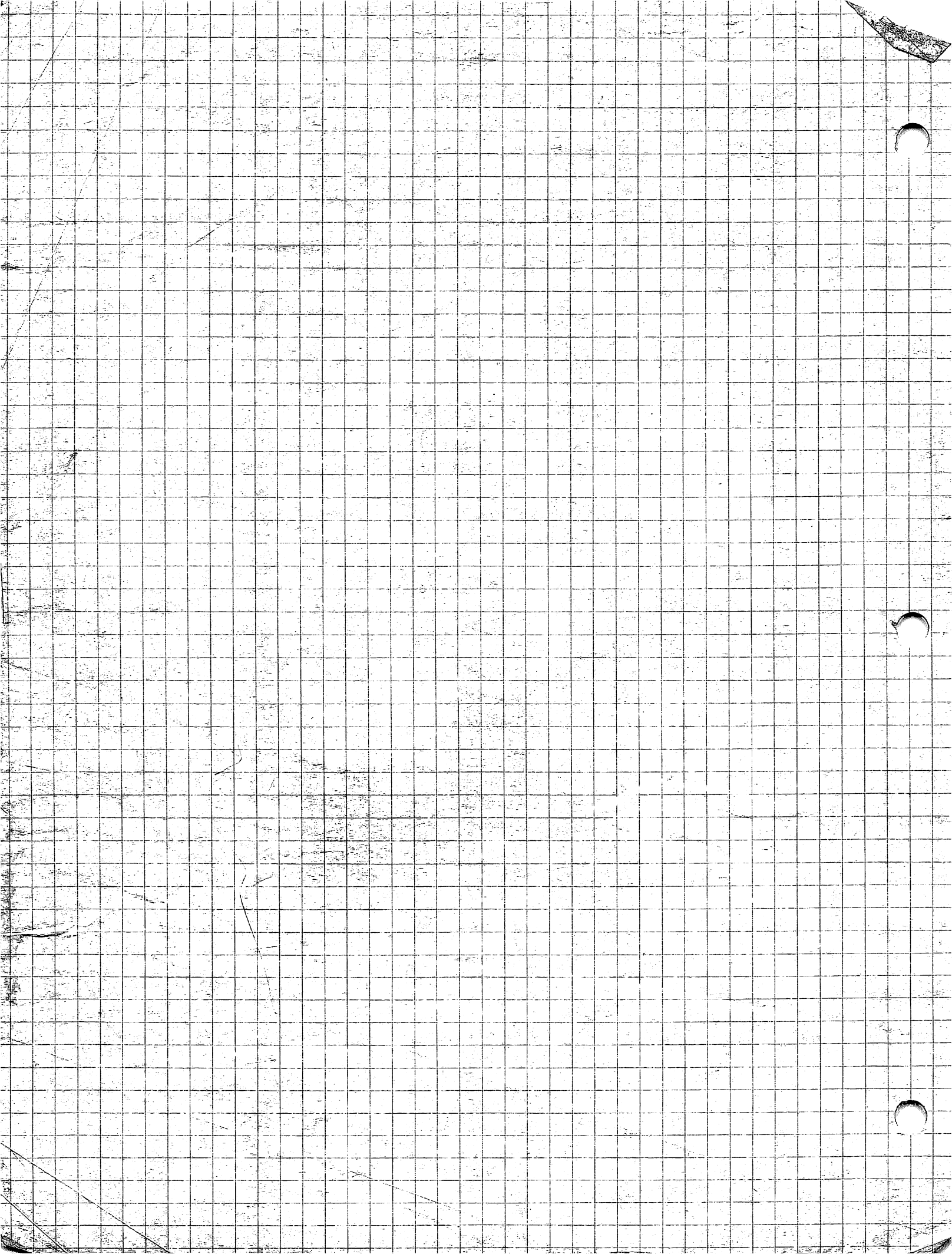
Fnd la Doble 10.55





Monte Grande #104 Loma de Julio 104

	POINT		ELEV	TRT	DIST		COR DIST
1	Str 1	NE corner	2919	134°15'	2875 - 2961		8.6
2	"	SE corner	3149	113°30'	3114 - 3187		7.0
3	"	SW corner	2634	200°45'	2619 - 2647		4.5
4	"	NW corner	2552	352°45'	2512 - 2593		8.1
5	Str. 2	NE corner	2428	312°	2320 - 2534		21.4
6	"	SE corner c. 40 cm	2126	299°30'	2025 - 2228		20.3
7	"	SW Cons. end	2209	298°	2086 - 2333		24.7
8	Str 3	NE corner	2565	336°30'	2450 - 2679		22.9
9	"	SE "	2705	228°	2606 - 2804		19.8
10	"	NW "	2678	330°30'	2547 - 2809		26.2
11	Str. 4	NE corner	2863	227°45'	2705 - 3010		30.5
12		NW	2983	323°45'	2800 - 3165	+10	36.5
13		SW	2092	317°00'	1918 - 2265		34.7
14		summit	1681	321°30'	1514 - 1848		33.4
15	Str 5	SE	1770	298°45'	1582 - 1968		38.6
16		NE	1956	312°00'	1749 - 2163		41.4
17		SW	1735	295°	1504 - 1965		46.1
18		Tract platform N side	1670	310°15'	1471 - 1869		39.8
19		NE platform, very rough	2041	311°	1856 - 2224		36.8
20		SE platform	1850	303°30'	1681 - 2023		33.8
21		summit main str	0371	303°15'	? - 0581		42.0
22		summit platform	1486	305°30'	1302 - 1667		36.5
23	Str 6	SE	1355	287°30'	1045 - 1664	1	61.9
24		SW	1285	280°15'	0935 - 1624	2	68.9
25		NE	1409	292°	1095 - 1722	3	62.7
26		summit	0695	289°	1020 - 1370	4	65.0
27	Str 7	NE	1790	288°	1567 - 2013	5	40
28		NW low	1732	255°	1502 - 1962	6	46.1
29	Str 8	NE	1828	289°45'	1777 - 1879	1	40.2
30		SE	2042	256°	1993 - 2089	2	9.6
31		NW	1857	327°30'	1757 - 1955	3	9.6
32		summit	0596	272°30'	0526 - 0664	4	14.0
33	Str 9	NE .40	2200	246°30'	2146 - 2253		10.5
34		SE .60	2528	210°	2485 - 2569		17.4
35		saddle summit (Str. 9)	1556/1558	256°15'	1485 - 1632		14.7
36		SW	2302	230°45'	2161 - 2443		28.2
37		summit	1764	224°	1623 - 1886		17.3
38	Str 10	NW ?	1842	279°	1695 - 1990	1	31.6
40		NE	1844	279°45'		2	29.5
41		SE	3015	270°45'	2862 - 3162	3	29.4
42		center of disturbance	3468	305°45'	3315 - 3525	4	14.0
43	Str 11	NW W 80	2613	192°30'	2565 - 2661	5	9.6
44		NE E 40	2172	145°	2148 - 2197	4°30'	8.8
45		SW	2547	184°	2467 - 2627		16.0
46		summit	1676	165°	1615 - 1739		12.4
47		saddle summit	2183	149°	2113 - 2252		14.0
48		Lootes pit #12	1669	134°	1581 - 1757		17.6
49	Str 12	NW	2754	138°30'	2704 - 2804		10.0
50		NE ?	3222	108°30'	3135 - 3308		17.3



Point	Sta	Middle	Δ hor.	Lower – Upper	Misc
51	#12	3430	3 ✓ 126°30′	3360 – 3560	3 ✓ 24.0
52	# NE projection #12	1660	4 ✓ 96° (vert = -4°)	1537 – 1782 ℄ 40	4 ✓ 24.5
53	#12 proj back to N	3255	5 ✓ 116°	3115 – 3395	5 ✓ 28.0
54	Bend back to E	2948	6 ✓ 109°	2824 – 3070	6 ✓ 24.6
55	Sta 13 NW	1675	7. ✓ 9°15′ (vert -4°)	1545 – 1805 ℄ 48	Low ✓ 26.0
56	SW	3598	8 ✓ 104°	3436 – 3768	✓ 33.2
57	NE	1568	9 ✓ 87°30′	1439 – 1736	9 ✓ 24.7
58	summit	1960	10. ✓ 73°30′ (vert = -2°)	1825 – (2100 ?) ℄ -2°	10 ✓ 27.0
59	Sta 14 E	3173	11 ✓ 63°30′	3100 – 3247	11 ✓ 24.7
60	W	2848	12 ✓ 36°30′	2783 – 2913	12 ✓ 23.0
61	summit	1815	13 ✓ 49° (-1°)	1735 – 1898	13 ✓ 26.3
62	N	3073	14 ✓ 41°	2965 – 3182	14 ✓ 21.7
63	To Station 2	1049	15 ✓ (west + 1°30′) 220°	0848 – 1250	15 ✓ 40.2
64					

Short

Check

Sta 10

9

12

51

~~#2~~ 106 cont.

N22-5-106

41	Str ~~#~~ 21	Summit		1978	16	160° 30'	1845 - 2111	0		1	24.6
42	"	SE	E 1.5	3510	17	148° 15'	3345 - 3674	-2°		2	33.1
43		NE		3601	18	145° 15'	3490 - 3718	-2°		3	22.8
44		NW	W 1.2	3289	19	180°	3178 - 3402	-2°		4	22.4
45	Str ~~#~~ 22	Sum		3523	10	214° 15'	3378 - 3745	-30°		5	36.7
46	"	SW		3315	11	213° 15'	3623 - 4010	-30°		6	38.7
47	"	NW	30cm	3642	12	219° 15'	3456 - 3828	-30°		7	37.2
48	"	SE		3529	13	210° 30'	3641 - 4020	-30°		8	37.9
49	Str ~~#~~ 23	Sum		1903	1	292° 15'	1773 - 2032	0		1	25.9
50	"	Super str	SE	1849	2	296° 30'	1720 - 1978	0		2	25.8
51	"	Super str	NE	2169	3	334° 30'	2035 - 2301	0		3	26.6
52	"	"	NW	2180	4	301° 45'	2035 - 2323	0		4	29.8
53	"	NE	Slopes more or E	3381	5	322° 45'	3222 - 3540	0		5	31.8
54	"	NW		2688	6	312°	2507 - 2848	6		6	34.7
55		SW	?	3178	7	279°	3034 - 3321	0		7	29.7
56		SE		3536	8	279	3436 - 3636	0		8	30.0
57	Str ~~#~~ 24	Sum		2390	9	299° 15'	2202 - 2580	0		9	37.8
58		SE	?	2873	10	293° 45'	2710 - 3035	6		10	34.5
59		SW		2817	11	292° 15'	2424 - 3010	0		11	30.6
60		NE		2635	12	304° 30'	2464 - 2808	0		12	34.4
61	Str ~~#~~ 20	ROCK	1.10 wide 2.70 s. in	2900	13	235° 30'	2755 - 3044	-2		13	28.9
62	Str ~~#~~ 20	Sum		2634	14	215° 30'	2390 - 2881	~~-2~~ ?		14	49.1
63	25	NE	Steeper S	3165	15	216°	2939 - 3392	-2 ?	ROCK	15	45.3
64		SE		3069	16	210°	2825 - 3313	-2	Steepness much greater	16	48.8
65		NW	150 South	2330	17	220° 45'	2087 - 2525	-2		17	48.8

N-77-5-107

SITE - 66 4

Malheguata Br - 70 3

#10 cont.

MONTE GRANDE

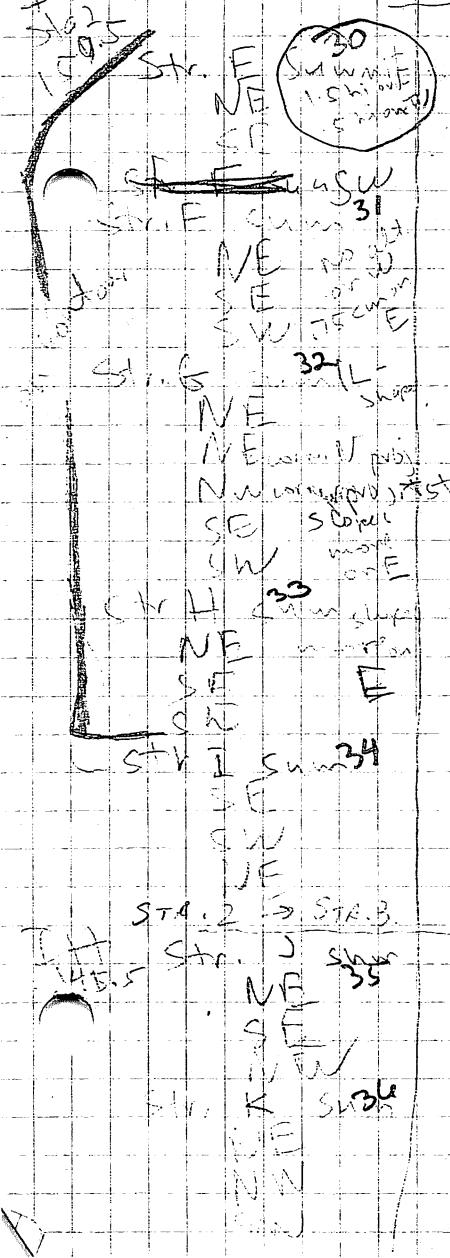
1H 147

| | | |

D 106

NTS 5-108

Point	Horiz ∠	Mid Horiz	Distance	+/-	Comp Dist
HI 144					
STA 1 → STA 2	22°0'	1.249	1.048 - 1.450	+)°48'	40.2
Summit A 26	1 166°45'	3.509	3.458 - 3.962	+1°18'	√31.2
N.W. "	2 170°30'	3.052 ?	2.900 - 3.204	0°0'	√30.4
N.E. "	3 162°45'	3.278	3.125 - 3.429	0°0'	√30.4
S.E. "	4 [illegible]	3.769	3.600 - 3.938	+0°51'	√33.8
Summit B 27	5 [illegible]	3.212	3.034 - 3.390	0°0'	√35.6
S.W. "	6 159°0'	3.683 .14	3.488 - 3881	0°0'	6√39.3
S.E. "	7 154°0	3.691	3.496 - [illegible]	-0°31'	7√38.5
N.E. "	8 153°0'	3.629	3.450 - 3.80[illegible]	6°0'	8√34.8
Summit C 28	9 152°0'	3.423	3.264 - [illegible]	"	5√32.0
S.W. "	10 152°30'	3.561 .10	3.431 - 3770	"	10√33.9
S.E. "	11 [illegible]	3.[illegible]	3446 - 3780	"	11√33.2
N.E. "	12 [illegible]	[illegible]	3.354 - 3644	"	12√30.8
Summit D 29	13 141°30'	3461	3.[illegible] - [illegible]	-0°14'	13√32.4
S.W. "	14 [illegible]	[illegible] .40	[illegible] - [illegible]	-0°16'	14√35.7
S.E. "	15 [illegible]	3.772	3.600 - 3944	-0°15'	15√34.9
N.E. "	16 [illegible]	3.741	[illegible] - 3.892	0°0'	1630.2
STA 2 → STA 1	40°0'	3.088	2.806 - 3.210	0	40.2



Str. F	30 Summit E 1.5 [illegible]	1 233° 30'	2065 E1.5	1851 - 2309	0	√48.8
NE		2 234° 30'	3575	3358 - 3790	0	√43.2
SE		3 226° 0	3806 CO Var	3463 - 3949	-10'	√48.6
SW		4 231° 0	3158	2980 - 3337	0	√53.8
Str. F	31 Summit	5 245° 15'	1320 .5E	6974 - 1666	+10	√68.6
NE	NW	6 241° 30'	10170W	0695 - 1342	0	√64.7
SE	[illegible]	7 241° 30'	1089	0762 - 1422	0	√66.0
SW	[illegible]	8 [illegible]	1570	[illegible] - 1925	0	√72.6
Str. G	32 L-shape	9 [illegible]	2172	1940 - 2410	0	√46.6
NE		10 257°	2001 pro .50	2584 - 3418	0	√43.0
NE	NW	11 [illegible]	2[illegible]	2[illegible] - 3355	0	√46.6
NW	[illegible]	12 [illegible]	[illegible] Main .80E	2466 - 2766	0	√60.0
SE	SO pad	13 [illegible]	[illegible] .10W	[illegible] - [illegible]	0	√42.7
SW	[illegible]	14 [illegible]	[illegible]	[illegible]	0	14 [illegible]
Str. H	33 [illegible]	15 [illegible]	[illegible] E.5	1802 - [illegible]		√50.1
NE	[illegible]	16 272° 30'	[illegible] W.5	[illegible] - 3062		√46.7
SE	E	17 266° 15'	[illegible]	2427 - 2903		√47.6
SW	[illegible]	18 [illegible]	[illegible]	2157 - 2713		√52.6
Str. H	Sum 34	19 321° 30'	1135 N.5	[illegible] - 1441		√63.4
SE	[illegible]	20 320° 45'	[illegible] S1.0	1980 - [illegible]		√58.2
SW	[illegible]	21 [illegible]	[illegible]	[illegible] - 3155	+35'	√65.5
NE	[illegible]	22 [illegible]	[illegible]	1248 - [illegible]	-1°9'	√61.4
STA 2 → STA B		23 312°0'	2.356	2.000 - 2.710	-0°10'	√71.0
Str. J	Sum 35	1 [illegible]	[illegible]	[illegible] - [illegible]	0	√4.4
NE		2 316° 30'	1333 .4	1312 - 1356	0	√4.7
SE		3 [illegible]	[illegible]	[illegible] - 1330	0	√2.0
SW		4 [illegible]	[illegible]	[illegible] - [illegible]	0	√7.5
Str. K	Sum 36	5 [illegible]	[illegible] .4	0498 - [illegible]	+35'	√20.4
NE		6 [illegible]	[illegible]	[illegible] - [illegible]	0	√17.7
NW		7 [illegible]	[illegible]	[illegible] - [illegible]	0	7 √23.1
		8 [illegible]	[illegible]	[illegible] - 1491	+8'	√24.1

7 Aug 5 to

#104 Lost

Monte N 75-109

Sta. 37 Sum		0660	9	303° 30'	0=51	- 0765		+1°	9	√21.7
SE		1094	10	297°	1094	- 1192		0	10	√19.6
SW		1291	11	297° 45'	1178	- 1420		+1°	11	√24.2
NE		1512	12	24[illegible]°	1362	- 1652		0	12	√22.0
NW		1634	13	314° 30'	1501	- 1555		-1°	13	√17.7
Sta. 38 Sum		1470	14	246° 30'	1334	- 1555		0	14	√17.1
SE		1596	15	351°	1511	- 1476		0	15	√16.2
NE		1678	16	323° 30'	1595	- 1779		0	16	√15.1
NW		1702	17	328° 30'	1614	- 1756		0	17	√17.2
Sta. 39 Sum		0642	1	3[illegible]° 30'	0501	- 0750		0	1	√27.9
SW		1795	2	342° 30'	1666	- 1923		0	2	√25.7
NW		2197	3	24[illegible]°	2032	- 2362		+1°	3	√32.0
NE		1515	4	3[illegible]6°	1[illegible]	- 1669		0	4	√30.8
Sta. 40 Sum		1519	5	21° 30'	1361	- 1653		0	5	√29.3
NW		1[illegible]	6	16° 30'	1713	- 2013		0	6	√30.0
NE		2015	7	34° 30'	1872	- 2168		0	7	√29.6
SE		1569	8	3[illegible]° 30'	1440	- 1997		0	8	√25.7
Rock		2[illegible]2	9	44°	1941	- 2221		0	9	√27.9
Sta. 41 Sum		1430	10	13[illegible]°	1361	- 1749		0	10	√23.8
NW		[illegible]	11	120° 30'	1347	- 1684		0	11	√23.9
NE		1601	12	100° 30'	1539	- 1784		0	12	√16.0
SE		1607	13	158°	[illegible]	- [illegible]		0	13	√15.6

Sta. 38 NW 1.10

Sta. 39 SW W1.4 R.9

Sta. 40 NW Steps on N5 S3

Rock Low NW end

N77-54-110
Sum 94

SITE NO.	NAME	MAP REF: N / E
HCR 9 / 106 OP	Monte Grande	prob 7400

LOCATION DETAILS

SITE DESCRIPTION

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION

POTTERY	STONE

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT

DISTURBANCE

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER

PHOTO REFS Oranimo SD 14

NOTEBOOK REFS

AST 75-102

SITE NO.	NAME	MAP REF:
HCR-2 | 100	Tree Pueblos	~~NBOR~~ N 1701500 E 378600

LOCATION DETAILS Located on the Manacal Ranch. Further East along the Road to Las Vegas (enter Manical Ranch, and take first Rd to left past Buildings. continue past Las vegas, stream crossing will be on right)

SITE DESCRIPTION Two mounds on the edge of a channel cut (A branch of The Chamelecon) To the N.W. were Hills. A small Road (tractor path) Runs through N.W. to E. [1975 data indicates total of 13 strs (or former strs); am using 175 data, as grass was very low then]

WATER SUPPLY Branch of Chamelecon

TERRAIN fairly flat, a hill Rising to the N.W. And [illegible] cut to the South

VEGETATION/CULTIVATION Mostly Grass, very little in the way of Scrubby growth.

POTTERY None found; some collected '75

STONE River cobbles, some Schist

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT

DISTURBANCE River [illegible] eventualy destroy remaining two mounds which are already [illegible]

LANDOWNER Manacal Co-op

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
Strong Kidder Paul Thor 5		17

PHOTO REFS

NOTEBOOK REFS [illegible] SP 10

SITE NO.	OP #	NAME	MAP REF:
HCR3	101	Las Vegas (Incl. former Buena Vista)	Coords N 1701425 7702 E 377850 main group

LOCATION DETAILS On Manacal Ranch; taking main road through houses, turn on first left through a string gate; you will pass through a cattle feeding area w/a trough, then bear left across a small stream; park after crossing the stream, before fence; go through gate or fence and follow path up hill to mounds.

SITE DESCRIPTION 4 large mounds in a plaza w/ small mound in it, but nearer to E str. than others; smaller mounds to W and E, eastern ones along path and on scarp above car-parking spot; low mounds very low c. 20-40 cm, and somewhat eroded - "lookout" mound str. 11 and str. 1 looted; str. 2 still shows step trench.

WATER SUPPLY running stream down hill face to S of main group of Buena Vista grp; channel c. 70 m E of BV group

TERRAIN flat "plateau" cut by wash which separates main + BV grps; steep drop to stream on S of main grp, and hills on N; see map for contours.

VEGETATION/CULTIVATION grass and scrub brush; cattle area

POTTERY few sherds found

STONE obsidian?; construction stones usual run of river cobbles

OTHER FINDS none; in 1975 plaster found in looters pits in "lookout mound" (str. 11)

TENTATIVE CHRONOLOGICAL PLACEMENT Late Classic

DISTURBANCE looting - str's 1 and 11; erosion on all str's. but str. 5

LANDOWNER Manacal Coop

OTHER COMMENTS I have united the former Buena Vista and Las Vegas as they are not greatly separated in space; after mapping I am more convinced than ever, as the wash which separates the two seems to be post-occupation.

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
[D] [T] [11] (1975)	1 de Junio 1977	[S]

PHOTO REFS

NOTEBOOK REFS Drawing SD 11

SITE NO.	NAME	MAP REF:
HCR5 102 GP	Las Flores	7400 E 574 400 N 1900 748 77-5-114 ~~S~~

LOCATION DETAILS on Rancho Manacal (1 mile) c. 300 m N of R. Naco and 1.3 km SE of highway, going along Naco; to reach by car follow Monte Grande directions, except for last step - at final turn, go right (NW) for .15 mile; site can be seen between road and river

SITE DESCRIPTION site consists of 5 mounds, none over 1 m, irregularly arranged in a loose plaza; two Strs, 3 & 4, are built along the edge of the drop off to the terrace running to R. Naco. Str. 5 seems to make some use of a small contour in its placement; in addition, Str. 6 seems to be a faced contour of indeterminate size (site was in high grass and brush)

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
R. Naco c. 300 m to South	flat river terrace w/ some micro contouring	high grass and thorny brush

POTTERY	STONE
none	no artifacts; stones in construction seem to be usual run of river cobbles

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT L. Classic [illegible] residential & non-platformed grounds

DISTURBANCE cattle paths

LANDOWNER Manacal Coop

OTHER COMMENTS appears to be small residential site, and is similar to portions of larger sites elsewhere

CATALOGUED ITEMS none

FIRST VISIT BY	DATE	COMPILER
[illegible] [illegible] [illegible]

SITE NO.	NAME	MAP REF: N1702 500 E 378 500

LOCATION DETAILS

SITE DESCRIPTION

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION

POTTERY	STONE

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT

DISTURBANCE

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER

PHOTO REFS

NOTEBOOK REFS

SITE NO.	NAME	MAP REF:
HCR7/1084 OP	Vaca Brava	N 1702 4550 Sheet 16 7602 E 376 2775

LOCATION DETAILS on Manacal ranch; after crossing stream, turn right through double gates, go through wire gate on N side of ~~i~~ used cattle pens, and through second wire gate, turning left (roughly S) at next intersection & turn W across poorly defined road, which takes one past V.B - large mound easily visible (see notes for azimuths and mileages)

SITE DESCRIPTION One large isolated mound w/ 3 groups w/i 250 m of it. Grp A is raised square platform w/ 4 mnds at corners; Grp. B is 3 mnds, 1 c. 1.25 m, 2 small, in a triangle; Grp. C is small, typical residential group of 6 mnds in loose plaza

WATER SUPPLY unnamed Manacal stream 150-300m away, depending on part of site

TERRAIN Str. 1, & Grps A & B on flat; Grp. C nearer stream, w/micro contours, runoff/wash to NW

VEGETATION/CULTIVATION Str. 1, Grps A & B in high grass w/some low brush & trees; Grp. C in thorny scrub

POTTERY a few sherds f/ Str. 1 and wash Not Grp. C

STONE some obsidian; construction stone usual river cobbles

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT Grp. C is typical of L. Classic sites; remainder is anomalous for this area

DISTURBANCE erosion & cattle destruction on Str. 1; most usual cattle-path problem

LANDOWNER Manacal Coop

OTHER COMMENTS entire site is anomalous; Grp A is "Mayan"

CATALOGUED ITEMS none

FIRST VISIT BY	DATE	COMPILER
S B H (1975)	14 de Julio 1977	L

PHOTO REFS SD 16 (roll drawing)

NOTEBOOK REFS

SITE NO.	NAME	MAP REF:
HCR41/.105 OP II	Los Cocos	N 7600 E 376 (N77-51 117; 125; 6r 293; 750; Cor 175; 12 more southerly location)

LOCATION DETAILS On Manacal ranch, near La Champa; turn right from main [illegible] road into ranch functioning; southerly [illegible] for 1.5 km, then turn left onto road between two bahia[illegible] at [illegible] junction. Take second [illegible] turn left until gate; follow [illegible] path c. 0.2 km until [illegible] on [illegible] hill in bananas on left.

SITE DESCRIPTION [illegible] 10 stone mounds (<0.5 m) mounds, most [illegible] two N-S lines; however, some of the [illegible] of [illegible] highest [illegible] by mine

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
[illegible] R. [illegible] R. Bio Lanta city	Flat land [illegible]	W field in grass w/ [illegible] shrubs; mounds also with trees [illegible] grass on [illegible] mounds

POTTERY	STONE
by [illegible] Fields, on E side	[illegible] .50 m

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT L. Manic

DISTURBANCE [illegible] disturbed mounds; [illegible] accident linearity, might be due to ploughing; trees in the W field have disturbed all c-trs.

LANDOWNER Manacal Cooperative

OTHER COMMENTS I readd more mounds, in better condition, from my previous visit. There seems to be much erosion/destruction of the smaller strs.

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
SKP / Tom E B H	5 de Julio	I

PHOTO REFS SD 12

NOTEBOOK REFS

SITE NO.	NAME	MAP REF:
HCR21 / OD 108	Los Perdidos	N 1701000 E 377125

LOCATION DETAILS Tamaral ranch; see notes for odometer readings and azimuths; to south of road to La Champa, between main ranch and Los Cocos

SITE DESCRIPTION 1 undisturbed str (5) and 9 disturbed &/or reconstructed strs; also one arch with disturbed cobbles, probably where strs. once stood

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
600 (?) m to R. Chamelecon (E of site)	flat area on edge of terrace (2nd terrace above river (?))	plowed & in corn

POTTERY	STONE
sherds found in furrows, esp. near strs 3 and 4	river cobbles, of fair amount of basalt

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT L Cl.

DISTURBANCE very disturbed by plowing

LANDOWNER Tamaral

OTHER COMMENTS Only str 5 is certain - remaining strs highly disturbed placement + typical, but remains far from water, possibly because of changes made by ranchers

CATALOGUED ITEMS none

FIRST VISIT BY	DATE	COMPILER
[illegible]	Aug 77	[illegible]

PHOTO REFS

NOTEBOOK REFS SD 19

SS-HQ

SITE NO.	NAME	MAP REF:
HCR 13 / 08 10	San Bartolo	7105

LOCATION DETAILS on Finca San Bartolo; reached by road originating in Naco and traversing foothills (see notes S5-S6)

SITE DESCRIPTION 11 mapped mounds and one small structure arranged in 3 plazas which are defined by faced and unfaced natural contours; 3 mounds c. 1-1.5 m and some smaller ones to NW in high monte (unvisited); mapped strs. range fr 1.5 to 3.25 m in height; composed of schistose cobbles and dirt; structure lines clear despite farming; no visible artifacts; site currently a chicken farm

WATER SUPPLY Rio San Bartolo c. ~~200~~ 100 m. to NE; rio is dry before reaching Tachaguala confluence

TERRAIN c. 250-300 m. from foothills on flat area gently sloping to E, at approx. 1m contour

VEGETATION/CULTIVATION currently most mounds cleared & in maize (strs. 2, 3, 4, 5, 7, 8, 9, 10); str. 6 in grass, as is strs. 1 and 12; str. 11 SE and in grass, NW and high monte; hig monte to N and W; pasture and milpa to S and E

POTTERY none

STONE only in construction; appears to be almost totally a schistose (gneiss?) material, in chunks of widely varying sizes; not water worn

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT mid-late Classic

DISTURBANCE milpa agriculture - burning and dibble sticks; no apparent plowing; chicken house & attendant strs. built among mounds

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS none

FIRST VISIT BY	DATE	COMPILER
[E] Urban [20] schortman	10 de Junio 1977	[5]

PHOTO REFS | Drawings Survey D1

NOTEBOOK REFS ~~Survey Data~~; S 3-S6

SITE NO.	NAME	MAP REF:
HSB12 OP 111	Tabacabica Military	7300 x 7301

LOCATION DETAILS on Colonel's [illegible] finca, To N of access road & highway, immediately after passing through the hills which constrict the road & matiX wind

SITE DESCRIPTION 24 strs arranged in 6 groups (Grp 1, strs 1–4; Grp 2 Strs 5–7; Grp 3, strs 9–13; Grp 4, strs 15, 16; Grp 5 strs 17–20) and w/ 3 isolated strs: 8, 14, and 24; dry stream bed divides area, w Grps 1, 4, 5 and Isolate 3 on N and E, and Grps 2, 3, and 7 [illegible] on and S; natural contours [illegible] Str. placement; grps. tend to be on higher ground; all grps, strs not arranged in regular pattern

WATER SUPPLY stream bed [illegible] R. Blanco c. 10-11km N

TERRAIN [illegible] slopes up to hills on N&W, [illegible] to S&E

VEGETATION/CULTIVATION [illegible] low grass, [illegible]

POTTERY [illegible] Grp 1 mostly in [illegible]

STONE [illegible]

OTHER FINDS [illegible]

TENTATIVE CHRONOLOGICAL PLACEMENT ?

DISTURBANCE hole (looting?) near strs 1 and 2; 10, 15 & 16 dug up and [illegible] road cuts Grp 1 and Str. 8; site probably part of [illegible]

LANDOWNER Colonel Garcia

OTHER COMMENTS [illegible] pattern of site [illegible] widely spaced, as influenced by [illegible]

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
[illegible]	[illegible]	[illegible]

PHOTO REFS

NOTEBOOK REFS

SITE NO.	NAME	MAP REF:
HsBs 113 OP	Escalzosa	7.99

LOCATION DETAILS on hacienda El Regadillo, c. 350 m W of highway; can be seen fr highway (str. 6 in particular); for mileages to access road see notes

SITE DESCRIPTION 23 str. arranged in 3 groups; the N grp has the largest str, str 6, and 12 other str ranging in ht from 1 m to 1.25 m; the area is formed by str. 5, 6, 7, 9 and 10 is the highest part of the group; the S group has the remaining 10 str, with a 2 (str. 14 and 16) approx 1.5 m; remainder are 1m and less; site has superficial and pass. visible

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
probably small stream (seasonal) to S c. 400 m; unnamed stream to N c. 750 m	fairly flat; no hills or notable rises	in cattle; veg. is brush, grass, some small trees

POTTERY none in '77

STONE no stone tools; stone in construction material for high perim. is of local marble; [illegible] in N grp are almost all of this; in S grp, str. 11, marble is irregular; unlike eg str. 1, less well constructed (apparently)

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT LC?

DISTURBANCE small road [illegible] S grp, truncating str. 16 and 17; service to str. 4; [illegible] in str. 13 and 14; cattle path along fence; disturbing str. 15 and 16; [illegible] to N of main road; [illegible] of str. 9?

LANDOWNER

OTHER COMMENTS there is no [illegible] of str. 1 on W of fence in field; N of main road [illegible] to be from [illegible]

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
		E

PHOTO REFS SD

NOTEBOOK REFS

SITE NO.	NAME	MAP REF:
OP 114	El Chaparral	16 97 525 N 3 72 E 525-875

LOCATION DETAILS [illegible] El Chaparral [illegible], c. 1/2 mile [illegible] highway

SITE DESCRIPTION [illegible] c. 100 m [illegible]

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
?	flat	[illegible] cattle

POTTERY	STONE
[illegible] RA, most [illegible] near wgrp	[illegible] basalt cobbles; obsidian flakes

OTHER FINDS [illegible]

TENTATIVE CHRONOLOGICAL PLACEMENT ?

DISTURBANCE cattle [illegible]

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
Abbmouth, Mackey	[illegible] 12-5	[illegible]

PHOTO REFS

NOTEBOOK REFS

SITE NO.	NAME	MAP REF:
HSB 7 / 115 OP	La Tristeza	N 1699350 E372700 123 SW 18

LOCATION DETAILS Traveling south on highway; pass between roadcuts S. of Esso station & Hacienda Trapiche road; stop at first gate on left; follow path c.300 m along fence until field on right (S) changes; enter 2nd field and proceed diagonally across it (SW) to mound group c. 100 m

SITE DESCRIPTION 6 mounds, highest 1.5 m, rest 0.5 - 1.0 m in height; arranged in small plaza which seems lower than ground surface outside of plaza; a ~~ravine~~ gully contacts the mounds but was formerly constructed saddles are visible

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
near unnamed quebrada c. 400 m to S	flat or very S of small hills	high grass, some shrubs; 1 tree on W side of SW mound

POTTERY	STONE
only a few small sherds visible in cow paths; none collected	no artifacts; construction stones + some cobbles, mostly pieces of chert fr/ hills nearby

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT L. Classic

DISTURBANCE cattle paths

LANDOWNER ~~La Bomba?~~ Henry Fash

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
5 12	25 de Julio, 1977	15

PHOTO REFS none

NOTEBOOK REFS Drawings SD 18

S 124
Sum 2

SITE NO.	OP #	NAME	MAP REF:
HSB9	116	La Jamarca	7399

LOCATION DETAILS complete description in notes; on Finca La Bomba, 200-250m N/ of hacienda house, in a copse and an overgrown field

SITE DESCRIPTION 26 mounds ranging from 0.30m to 2.5m in height; arranged in two loose plazas plus outlyers; placed on bluff, possibly 120m contour; utilizes smaller contours to place and link structures

WATER SUPPLY no running water; hacienda uses wells; some dampness in what must be old stream bed to S of site

TERRAIN on a pronounced contour with drop offs to E and S; discussion in notes

VEGETATION/CULTIVATION W portion of site in trees - low-hanging and clear below; rest is cattle pasture with lots of bushes

POTTERY some sherds from fence hole in Sfm. 16, and rodent hole in Sfm. 20

STONE no artifacts; mounds composed of cobbles and "limestone" chunks; a few bits of marble seen

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT mid- Late Classic

DISTURBANCE cattle paths, one or two possible looters pits

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
[illegible] [illegible]	[illegible]	[illegible]

PHOTO REFS

Drawing refs SD2a-f and SD2

NOTEBOOK REFS

SITE NO.	OP #	NAME	MAP REF:
HSB 10	119	La Bamba	N 16 98 875 E 372 575

125 Sums

LOCATION DETAILS located in 2nd potrero from highway, moving to E, on Finca La Bomba; can be seen from highway, [redacted] (200-250 m due E) access road (c. 500 m north cross country) or potrero to west of La Jamaica site (qv NW)

SITE DESCRIPTION two mounds oriented almost due N-S, parallel to each other; Str is 1.5 m high, and 9 x 6 m; Str. 2 is 1.25 m high, and 9 x 5 m; no other strs. could be discerned. An unnamed arroyo, completely grown over, is c. 100 m. to the N, and this topographic feature appears in simplified form on the 1:50000 map

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
no streams; possible standing water in arroyo	flat, featureless land except for arroyo	in cattle - covered w/ 1 m high grass w/ interspersed shrubs and a few small trees, palms and others

POTTERY	STONE
a few small (1 cm x 1 cm) sherds seen in cattle paths, and one sherd found by fence post at fence c. 100 m to SE of mounds	one stone artifacts; few rocks in mnds. visible due to grass; those seen seemed schistose (gneiss?)

OTHER FINDS —

TENTATIVE CHRONOLOGICAL PLACEMENT Late Classic?

DISTURBANCE none visible

LANDOWNER same as La Jamaica

OTHER COMMENTS there must be smaller mounds near by but none can be seen through the thigh grass; even walking over a rise is uninformative, since details are obscured

CATALOGUED ITEMS —

FIRST VISIT BY	DATE	COMPILER
[S] Urban Richard	18 Junio 1977	[S]

PHOTO REFS	Drawing
none	SD 3

NOTEBOOK REFS

126
~~SSum4~~

SITE NO.	OP #	NAME	MAP REF:
HCR 14	120	Guayavial	7506

LOCATION DETAILS road out of Cofradia, head north until road heads down slope to east. follow into group of buildings, go to left around cattle pens. head north on other side group of buildings. follow line of slope. (sharp hill on left - go along bottom of hill heading north) bring directly to southern end of site and record no. 9.

SITE DESCRIPTION 16 mounds of varying size - the greatest [illegible] 2 rectangular [illegible] the western portion of the site [illegible] It is built into [illegible] The site is [illegible] cultivated [illegible] The vegetation [illegible] site of the site - as all mounds [illegible] slope following the water [illegible] grasses with a few trees [illegible] dark [illegible] the site is basically clear [illegible]

WATER SUPPLY [illegible] parallels the site one approximately 120 metres away.

TERRAIN [illegible] as does [illegible] the road inside.

VEGETATION/CULTIVATION [illegible] trees - mainly [illegible] [illegible] trees [illegible] corte #1

POTTERY [illegible] site

STONE [illegible] mounds [illegible] of the site

OTHER FINDS [illegible]

TENTATIVE CHRONOLOGICAL PLACEMENT mid to late Classic - [illegible] other sites at [illegible] This period - [illegible] complete.

DISTURBANCE [illegible] on the western portion of site [illegible] structure [illegible] was [illegible] disturbance [illegible] opposite side of the [illegible] This which is [illegible] used for cattle grazing

LANDOWNER

OTHER COMMENTS [illegible] interested [illegible]

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
5 14 16	21/VI/77	14 16

PHOTO REFS

NOTEBOOK REFS

Drawing Refs
SD4

see back for some additional details;

SITE NO.	OP. #	NAME	MAP REF:
HCR 15	121	El Cacao	76054

N 17 04 550 E 3 76 800 NW 77-5-127 SCum5

LOCATION DETAILS [illegible] NE [illegible] and cross the first [illegible] - yellow road NE by 400ft to cornfield - 3 possible [illegible] in [illegible].

SITE DESCRIPTION [illegible]

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
Rio [illegible]	[illegible]	[illegible]

POTTERY [illegible] general lot

STONE [illegible] few pieces of obsidian

OTHER FINDS [illegible]

TENTATIVE CHRONOLOGICAL PLACEMENT [illegible]

DISTURBANCE [illegible]

LANDOWNER [illegible]

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
[illegible]	21 IV 77	[illegible]

PHOTO REFS

NOTEBOOK REFS

drawings

Returned to El Carao 22/V/77 for more thorough examination of site and surrounding area. Discovered a total of 6 mounds in the corn field. The first 2 mounds recorded on the opposite side are now considered as 1 mound cut through by plowing and was previously called structure 1. The third mound is thought to be a construction only with addition of 2.8m and was not given a structure number. The other definite structures have been identified for a total of 6 mounds comprising the site. All are located within a ploughed and planted corn field and are therefore disturbed.

Pottery - sherds in the field in which mounds are located and collected as sample - many sherds were easily visible having been turned up by plowing and rain wash.

Revised Notes: [illegible] 22/V/77

SITE NO.	OP #	NAME	MAP REF:
HS 15 11	122	Los Refrescos	N 1700 705 5 ~~Sum 6~~ 128 7300 E 373 125

LOCATION DETAILS c. 100 m SE of Gasolinera/Refresqueria de Ixtan; 1.200 m S of Rio Negro bridge on highway;

SITE DESCRIPTION 12 mapped str.; one or two low ones may be in high weeds to S of locus; mounds arranged in loose triangle, plaza w/apex at north, base at south; in plaza center are two str., linked by a low saddle; line of str. 1, str. 7, has projection to the W which might be a stairway; the western line of mounds follows a contour; the H pairs of mounds to the E of the plaza run; another contour line [illegible] > 0.5 m

WATER SUPPLY near to Rio Negro, which is c. 200 m N

TERRAIN basically flat with [illegible] ground slopes to E

VEGETATION/CULTIVATION currently in milpa except for southern portions of str. 12, 11, and 10, which are in weeds

POTTERY [illegible] and in surrounding milpa

STONE no artifacts; construction stone usual run of river cobbles and schistose material; 1 cut stone slab near Str. 8

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT Late Classic

DISTURBANCE burning of milpa; no pits, but stones kicked around & [illegible]; some trees still standing in area

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS
122 A-1/1 fragment of Mut ware cylinder vessel, wall & base, red painted wavy design on buff

FIRST VISIT BY	DATE	COMPILER
5 14 16	24 de Junio 1977	5 20

PHOTO REFS

NOTEBOOK REFS

Drawing 1
SD6

129

SITE NO	NAME	MAP REF
HCR 7 / 124	LA TIENDA	7304 N 1703 125 / 7363 E 523 050

LOCATION DETAILS

SITE DESCRIPTION CONSISTS OF 8 MOUNDS WHICH ARE VERY SPREAD OUT — SOME ARE BARELY DISCERNIBLE AS MOUNDS BUT GEOMETRY SO THAT IT COULD BE MOUNDS — THERE ARE A FEW LOW STONE WALLS BUT THEY ARE SO FRAGMENTARY THAT IT WAS HARD TO DETERMINE WHICH WERE MOUNDS AND WHICH WERE NATURAL OUTCROPS — THERE ARE A FEW LOW STONE WALLS AND BERMS ABOUT THE SIZE OF MOUNDS — THEY SEEM TO BE THE SAME MATERIAL AS THE MOUNDS — SOME MOUNDS DON'T HAVE NATURAL OUTCROPS —
Str. 8 has two small looter's pits

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
Dry Colorado to N Colorada los Tinas to S San Bartalo to NNW	Series of gradual drop-offs to East Two major escarpments to the west and east	

POTTERY	STONE

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT

DISTURBANCE

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
20 14 16	4 VIII 77	12 15

PHOTO REFS

NOTEBOOK REFS

130

SITE NO.	DP #	NAME	MAP REF:
HCR18	175	Casa Vieja	N 1704 250 Sum 7 / 7204 (¾) E 372 925

LOCATION DETAILS

Drive west out of Naco until just before (E. of) the Rio Naco, Turn right (N.), travel through 2 swing gates, turn right and head N./N.E. for c. 1.5 km. until arrive at Antonio Paz's Finca, turn left (W.). Cross the Rio San Bartolo, first field immediately on right.

SITE DESCRIPTION

3 low mounds; Str. 1 = c. 1.5m. high, Str. 2 & Str. 3, = c. .5 - .75m. high. Arranged in a rough plaza oriented roughly N.-S. Contours badly disturbed by plowing, all mounds covered by cobbles and some schist lajas. No other definite indications of mounds in the rest of the field, some sherds found in this larger area.

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
Rio San Bartolo (running) c 100m to the S.	Flat to rolling, very close to the first perceptions rise of the foothills (to the N. and W.).	Planted in milpa.

POTTERY	STONE
Some sherds collected (125 A-~~K~~ I.).	None found.

OTHER FINDS

—

TENTATIVE CHRONOLOGICAL PLACEMENT

—

DISTURBANCE Plowing / farming around the mounds, some shallow pits in Str. 1.

LANDOWNER Jose Antonio Paz

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
(20) (14) (16)	23 Junio 1947	

PHOTO REFS	Drawing
	507

NOTEBOOK REFS

SITE NO.	OP #	NAME	MAP REF: N E
~~HGR-19~~ HGR-19	126	Macondo	7004 ; [redacted]

LOCATION DETAILS beginning in Naco, take road which follows N side of Rio Naco, heading W; pass turn-offs to Las Tunas and San Bartolo; c. 0.8 miles fr/Naco, road branches, first is on right, on high ground, is narrow; 2nd goes down to Rio Naco, is wider; take 2nd, on the left, cross R. Naco, then cross [redacted] Rio Naco (fr/map); pass through hacienda buildings, and gate; site cannot be missed, as large mounds are on both sides of road; total highway-site distance 3.4 miles

SITE DESCRIPTION c. 15 strs (one or two are dubious, & one is be hidden in monte); 6 on E arranged in loose plaza, with contours defining a low plaza center; 5 or 6 strs. are built into the hill on the N, including 1 large "platform" (str. 1); southern line of strs. built along contour above terrace leading to river

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
[redacted] Cerros Quebrada La Esperanza c. 400m to south	narrow flat area between hills and lowest river terrace	mostly grass and monte, and some corn on W str. strs.

POTTERY	STONE
few sherds	no artifacts; construction of river cobbles and pieces of schistose material which comprises hills above

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT L. Classic

DISTURBANCE Str. 11 & 13 cut by road; some milpa, but no plowing

LANDOWNER Dr. Licando Antonio Oviedo – he recently bought land and changed name of finca fr/ La Sierra to Macondo

OTHER COMMENTS the large "platform" type strs. built into the hill are unusual, as is the size discrepancy between strs. 9 & 10 and the E plaza strs. 3–8

CATALOGUED ITEMS

FIRST VISIT BY	DATE first into	COMPILER
5 14 16	24 Junio 1977	14

PHOTO REFS

NOTEBOOK REFS	Drawings
	SD9

SITE NO.	OPA	NAME	MAP REF: N 1703 400 E 375 850
HCR 20	128	Los Puros	7503

132 SSum 15

LOCATION DETAILS SW of Cobradia, in field N of cigar factory; field E of Cobradia's western access road; mounds can be seen from road

SITE DESCRIPTION 26 strs. arranged w/ 1 large (200x300m) plaza and 2 possible smaller plazas; one E & one N of large plaza; one str (26) isolated to N of group; site cut by cattle road through group. Strs. 4, 7 and large plaza; strs. vary in height from 0.20m to 2.5m in height; contours used for placement of mound strs, and some are faced. Strs. 2, 14, 3 area most in region w/ construction-ground rises to NE and SW; large low area w/o construction on NW edge between group and str. 26

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
R. San Bartolo 1,350 m N	rolling land, less flat than most built-upon areas in the valley - note large deep area N of group	N of N cattle road high grass and shrubs; few trees; S & E short grass, more trees, but field w/ strs; sandy w/ higher grass, weeds; fields in cattle

POTTERY few sherds found, all in cattle paths

STONE typical assortment of river cobbles; no worked stone observed; no "artifactual" stone

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT L. Cl.

DISTURBANCE road; cattle paths; large pit behind (SE of) str. 22

LANDOWNER Pedro Pacheco

OTHER COMMENTS This group is more regular than most esp. the larger str. around the "plaza". The arrangement and the contours it is reminiscent of San Bartolo

CATALOGUED ITEMS none

FIRST VISIT BY	DATE	COMPILER
E	[illegible] 87	E

PHOTO REFS SD 15

NOTEBOOK REFS

SITE NO.	NAME	MAP REF:
134	La Florida	E 372025 N 1700250 7200

LOCATION DETAILS on Embocadora Alus, c.1 km W of highway, but not visible fr/highway; follow road to Alus site, continue NW on road following along creek; site to N + E of path on W side of hill which separates it from Alus

SITE DESCRIPTION 18 strs, ranging fr/ 0.20 m to 2 m high; arranged in two grps: grp 1, southern grp includes strs. 1–13, in a circular pattern (more or less) w/ 5 str'l inside the circle on the SE; all but 4 of the 1m and higher strs are in this southern grp; mnds in S. grp follow natural ground slightly so that str. 11 is situated in lowest pt of plaza; Northern grp, strs 14–18, has one str >1m (str. 14); rest < 0.5 m; str 3 at highest point in plaza; str. 15 measured in trees

WATER SUPPLY unnamed creek c. 350 m to W/SW

TERRAIN flat, but with noticeable but gradual change in elevation; hills (Cimalit) to S and E; creek accounts for drop to W

VEGETATION/CULTIVATION mod. cover; [illegible] in cattle [illegible] used much

POTTERY none

STONE several cobbles, and schist fragments from nearby outcrop (on edge of hill)

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT L C I?

DISTURBANCE path has disturbed strs 4, 5, 6; looting for stones

LANDOWNER B. Lot

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
[illegible] Woods	[illegible] 87	[illegible]

PHOTO REFS 1 SD [illegible]

NOTEBOOK REFS

SITE NO.	NAME	MAP REF: N 7799 950 E 372 200
HQB 123	Alu	7299

LOCATION DETAILS c. 500m fr highway, on W side; can walk down road - 1st road on W side after passing through the section of highway bordered by 2 hills (which is immediately after Navy gas station); not visible from highway

SITE DESCRIPTION 12 Strs. arranged in 3 groups; N grp, strs 11, 12; Mid grp, Str. 4–10; S grp, strs 1–3; Mid grp is [illegible], str. 3, 4 & 5, on S, linked by a saddle, and str 8 & 9, on W, also linked; Str 7 is not in with parallel, but grp is fairly regular

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
unnamed creek c. 110 m to W	built upon area [illegible] small hills to SW, NE, NW	medium grass, w/few trees

POTTERY	STONE
none	usual river cobbles; some obsidian [illegible] in areas to west & SW of str 11, 12

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT ? LCI ?

DISTURBANCE some cattle paths; but no apparent farming

LANDOWNER [illegible] Finca Luis [illegible] Inc formerly owned by Tamarindo Co; Alus cattle now on [illegible]
Mario Pellas

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
[illegible]		

PHOTO REFS

NOTEBOOK REFS SD20

SITE NO.	NAME	MAP REF:
USP-14 / DP 135	El Potrero	N 17 00 300 E 3 71 775 / 7100

LOCATION DETAILS on Embarcadero Alto, alongside creek, (W side of stream) near unused windmill; c. .5km fr/La Embarcadero site (c. 10 min walk)

SITE DESCRIPTION 4 discernible strs, with 5th pass. 5th (shown as rock scatter) all very low, < .8 m (str. 4 main part c. .80 m on E, or highest, side) most strs. .40 m and lower; arranged in "plazuela"

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
unnamed creek nearby c. 25 m	generally flat though mnds. built on area sloping down to creek	Low scrub, brush

POTTERY	STONE
a few sherds visible to S near creek bank	usual run of cobbles & chipstone chunks; a few obsidian chips near creek

OTHER FINDS none

TENTATIVE CHRONOLOGICAL PLACEMENT ? LCl?

DISTURBANCE cattle paths

LANDOWNER

OTHER COMMENTS none

CATALOGUED ITEMS ?

FIRST VISIT BY	DATE	COMPILER
[S] Richard	Aug 1977	[S]

PHOTO REFS SD 21

NOTEBOOK REFS

SITE NO.	OP. NO.	NAME	MAP REF:
HSB9	116	LA JAMAICA	7399

LOCATION DETAILS -STOP ON MAIN DIRT ROAD TO [illegible] L FACE [illegible] HOUSE ON L (LEFT) GO [illegible] TO [illegible] WATER PIPE - RIGHT AT FORK - AT END OF CLOSE LEAL FIELD [illegible] COMPASS. WALK ABOUT 300 METERS -SOON AFTER WALKING UP HILL [illegible] FIELD ROAD - GO THRU [illegible] BARBED WIRE FENCE ABOUT 100 METERS FROM [illegible] HOUSES

SITE DESCRIPTION THE SITE HAS APPROXIMATELY 16 SMALL MOUNDS RANGING IN HEIGHT FROM .25 M TO 2½ METERS. THE MOUNDS ARE MOSTLY OVERGROWN WITH TREES, BUSHES AND GRASS — THEY ARE BURIALS OF SLAVES AND FREEDMEN. TOP OF A SMALL SLOPE TO THE SOUTH SEEMS TO BE LEVELLED WITH TERRACES WHICH ARE INTERESTING. MOUND MOUNDS ARE NICELY SHAPED. THE ENTIRE SITE WAS SURVEYED (APPROXIMATELY) 70 M (N-S) BY 75 M (E-W) SITE IS FENCED ON THREE SIDES —

WATER SUPPLY NO RUNNING WATER ON SITE - DISTANT PIPED SUPPLY - NO WATER IN AREA.

TERRAIN [illegible] SLOPE TO SOUTH [illegible] SLOPE IS GENTLE / FLAT —

VEGETATION/CULTIVATION SITE USED FOR CATTLE GRAZING - MOWED / TRIMMED, BUSHES & SCRUB [illegible]

POTTERY -SOME SHERDS ON SURFACE - 16

STONE MOST COBBLES FROM RIVER - MUSCOVITE SCHIST, GRANITE, LIMESTONE, RECENT SMALL PIECES OF [illegible]

OTHER FINDS SMALL PIECES OF [illegible] FOUND ON SURFACE - MOST NEAR 22

TENTATIVE CHRONOLOGICAL PLACEMENT [illegible]

DISTURBANCE [illegible]

LANDOWNER

OTHER COMMENTS SOME [illegible] - SURFACE WEAK VEGETATION — 2 [illegible] BY BARB O [illegible]

CATALOGUED ITEMS

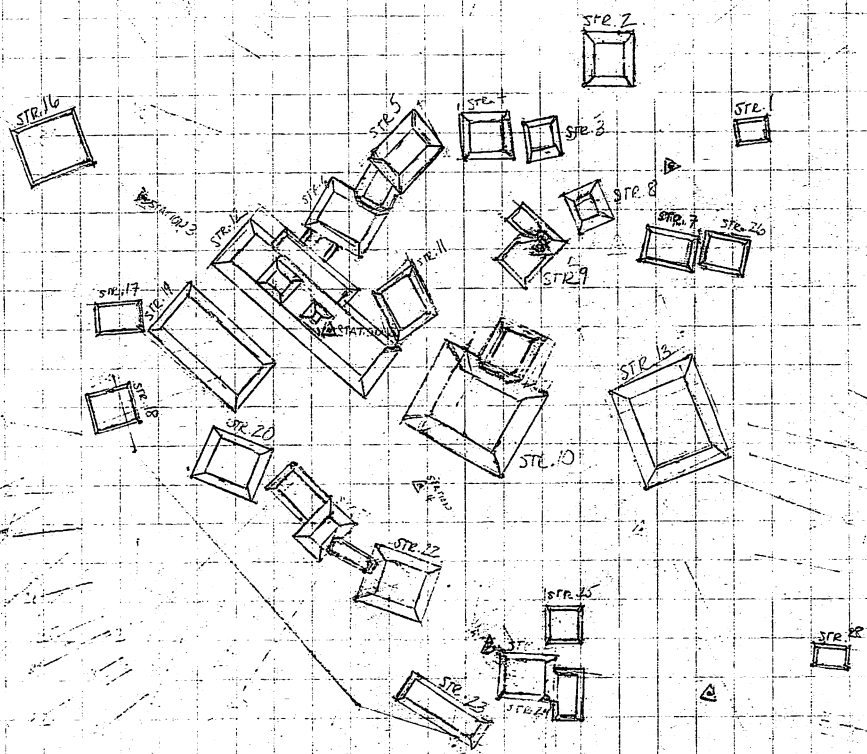
FIRST VISIT BY	DATE	COMPILER
S, 21	16/VII/77	12

PHOTO REFS	DRAWING REFS.
	SD2d

NOTEBOOK REFS

SCALE 1:1000 [12] Main Unit - Ma... TT

= 10CM SITE PLAN - LA /ANALOG



SITE NO.	OP. NO.	NAME	MAP REF:
HSB9	116	La Jamaica	7399

LOCATION DETAILS 1st dirt Road left off dirt Road to La Sierra - 1st dirt Road left off this, between Hacienda House (on left) and cattle pens (on right) Road proceeds into wash - follow path with cattle pens on Right through wash, and up a second bank. Cut through Barbed wire fence on Right about 10m, and go straight about 20m. Site Spreads N and W. On Finca La Bomba.

SITE DESCRIPTION 2 Rough Plazas, 28 mounds, NOT ALIGNED REGULARLY. Group of mounds on North form a connected complex with superstructures. A second pair of joined mounds with a platform is to the South. 3 Looters pits NW, and one on the SOUTH ARE CUT INTO THE SIDE BANK. THE AREA IS COVERED TREES WITH ROOT DISTURBANCE, THE REMAINDER OF THE SITE IS PASTURE AND IS EXTENSIVELY DISTURBED.

WATER SUPPLY NO RUNNING WATER AT PRESENT, LOW SPOTS MAY HOLD WATER IN RAINY SEASON, HACIENDA LA BOMBA USES WELLS.

TERRAIN Fairly flat, some of stream wash plains ALONG THE SOUTH AND E.

VEGETATION/CULTIVATION MEDIUM GRASSES AND SAPLINGS - NORTHWEST UNDER FOREST. USED FOR CATTLE PASTURE.

POTTERY RIM SHERD, BODY SHARDS - LSA VICINITY 21-22 complex. PASTE IS COARSE - SOME RED/ORANGE.

STONE A FEW SMALL OBSIDIAN PIECES, RIVER COBBLES IN STRUCTURES ARE LARGE. SOME LIME STONE WITH MARBLE ASSOCIATED.

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT MID TO LATE CLASSIC.

DISTURBANCE COWPATHS PRESENT CORNERS & ELEVATIONS. FENCE ACROSS OVER 4 MOUNDS DISTORTS TOPOG., VEGETATION IN AREA IS LARGE AND POSSIBLE ROOT DISTURBANCE EXTENSIVE.

LANDOWNER

OTHER COMMENTS

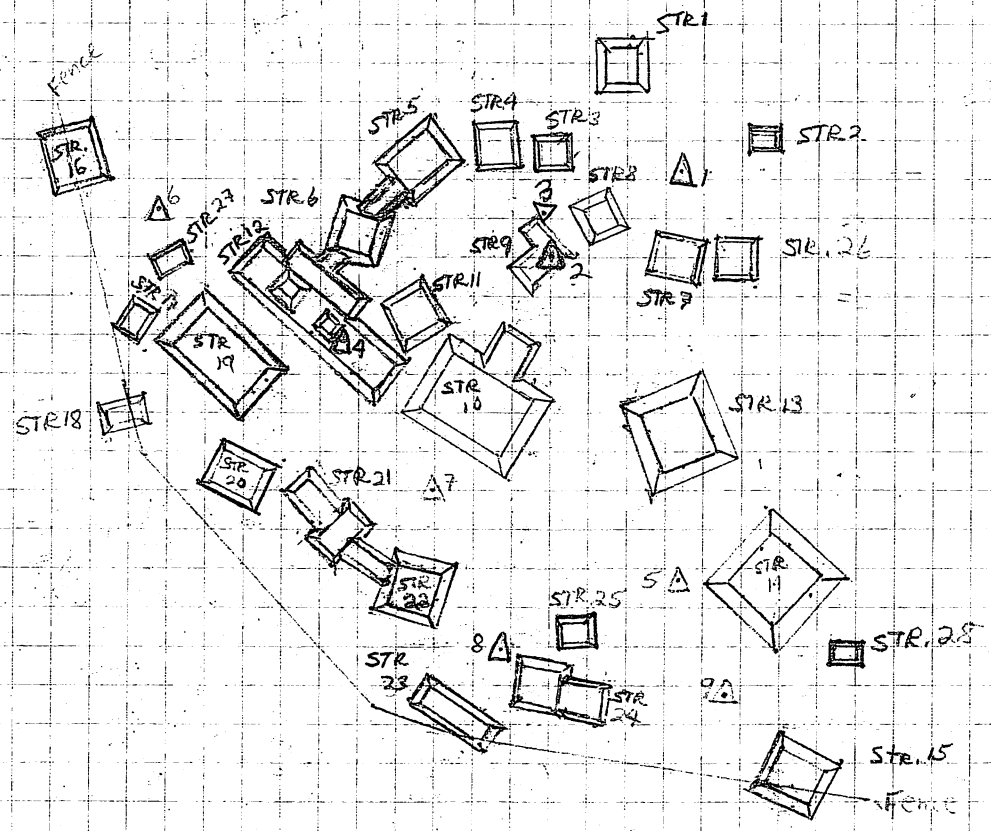
CATALOGUED ITEMS 1 SMALL METATE FRAGMENT (116A-1/1)
1 figurine fragment (116A-1/2)

FIRST VISIT BY	DATE	COMPILER
15 21	June 14, 1977	13

PHOTO REFS | **DRAWING REFS** SP 2a.

NOTEBOOK REFS

29 JUNE 1977
La Jamaica (116)
[13]
Scale 1:1000



SITE NO.	OP =	NAME	MAP REF:
HSB9	116	La Jamaica	73 99

LOCATION DETAILS

SITE DESCRIPTION

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION

POTTERY

STONE

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT

DISTURBANCE

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
[5] [21]	16/VI/74	[14]

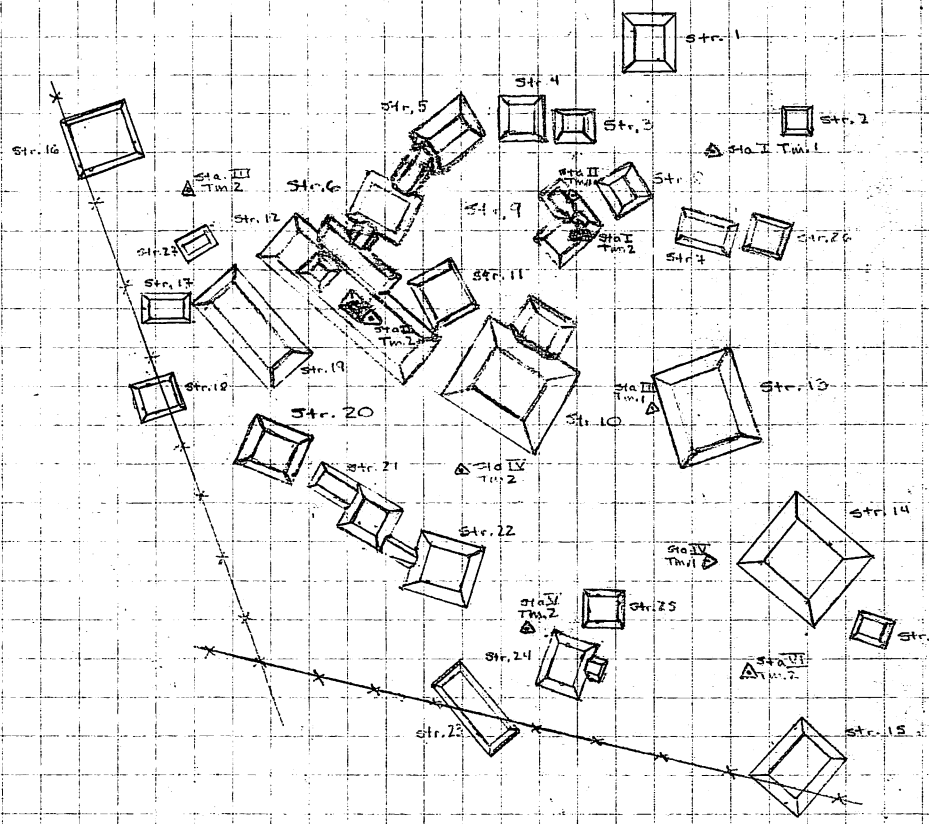
PHOTO REFS	Drawing Refs.

NOTEBOOK REFS

1 = 10 meters Site Plan La Jamaica [14] Preliminary OP #126 22/VI/77

1 : 1000

141



SITE NO.	OP. NO.	NAME	MAP REF:
HS89	116	La Jamaica	7399

LOCATION DETAILS from road to La Sierra, entered gate to the right side of house, walked down dirt path to first gate past house on the left. Walked thru gate, thru short field, w/house on left, cows on site, onto dirt trail walked down short incline, which curved to right about cattle pen, followed path goodly distance eventually going up small watershed that coincided w trail, a fence appeared on the right followed fence until found junction w/2nd fence perpendicular to first. Crossed fence and was on western border of site.

SITE DESCRIPTION western part of site undergrowth thick, thigh high. Also forested, eastern part of site no trees, no undergrowth (due to mowing), terrain flat; 27 mounds of varying sizes roughly 2 plazas formed 1st plaza northern part of site, 7-10 mounds, 2nd plaza SW section of site, 7-10 mounds, other small outlying mounds, mostly to the west. cow paths and cow pats all through site

WATER SUPPLY no running water, some standing pools on the way to site

TERRAIN flat terrain, no large features excluding mounds

VEGETATION/CULTIVATION used for cattle grazing
low brush, some trees (see site description)

POTTERY

STONE river cobbles, no faced or cut stone, some limestone (cannot identify rock type)

OTHER FINDS some obsidian sherds

TENTATIVE CHRONOLOGICAL PLACEMENT mid-to-late classic,

DISTURBANCE cow paths, cow pats

LANDOWNER

OTHER COMMENTS mighty hot!

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
5 and 21	6/16/77	16

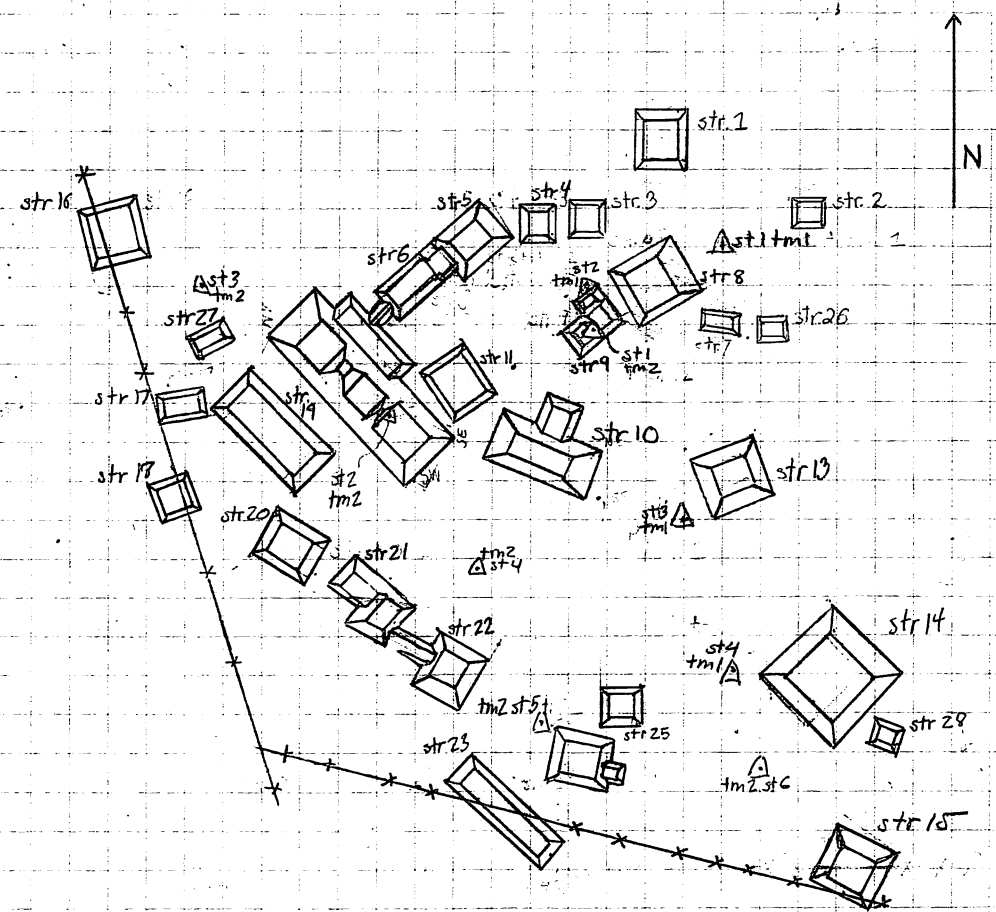
PHOTO REFS | Drawing references SD2c

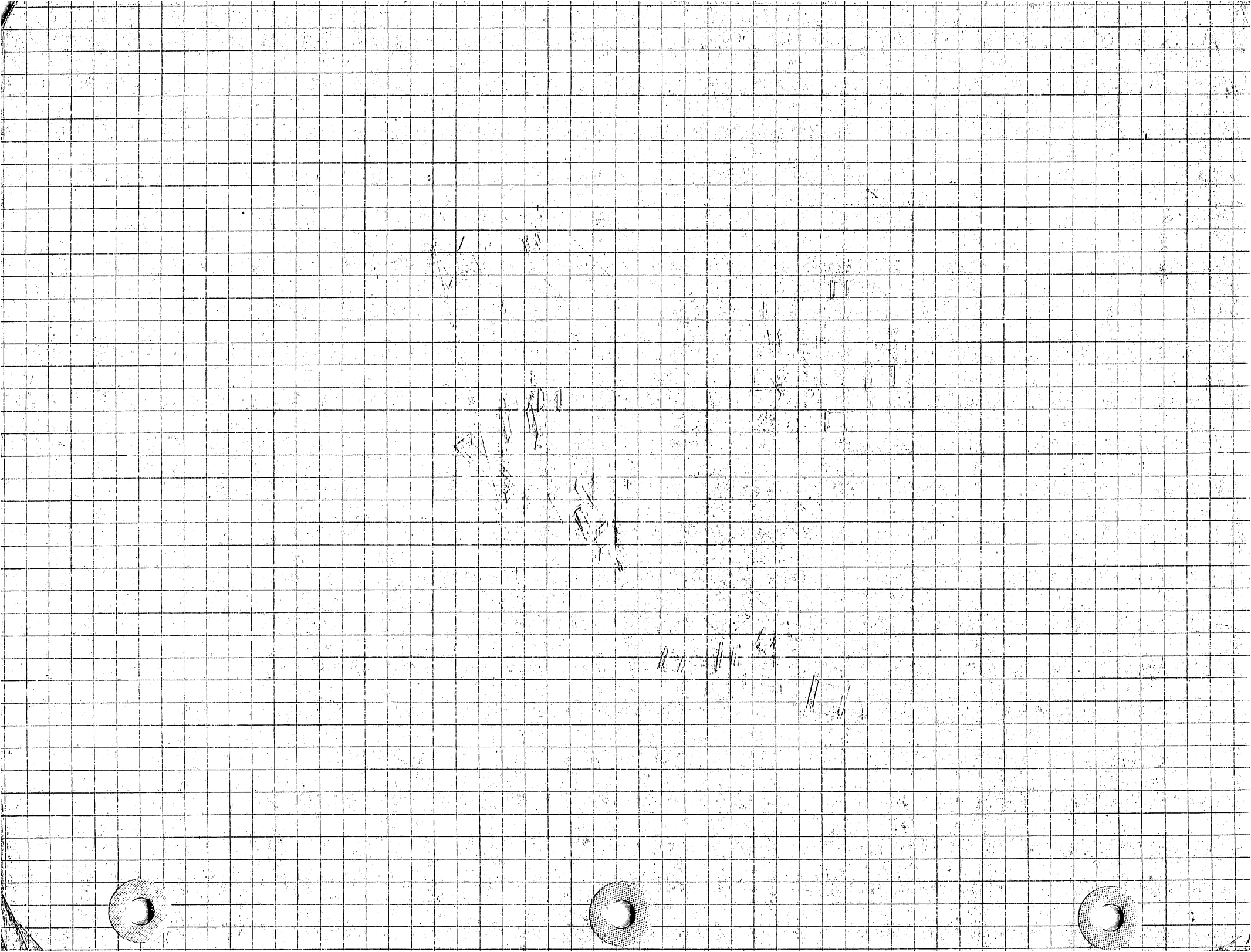
NOTEBOOK REFS

Drawing Ref: SD2c Site Map 1:1000 143

name: La Jaimaca

op no 116





SITE NO.	OP NO	NAME	MAP REF:
HS69	116	La Jamaica	7399

LOCATION DETAILS First house on left on [illegible] road to La Sierra walk behind house end to R of [illegible] follow low path, approx 350 m to R (JUST PAST 7th [illegible]) go right through fence into wood [illegible] (U.S.)

SITE DESCRIPTION
Site consist of 26 mounds .2 to 2.5 metres in height, mounds are [illegible] site [illegible] to the north & south. Terrain is [illegible] site [illegible] to the north & south. Terrain is uneven with [illegible] top of [illegible] to the west of site approx 100 m [illegible] by 50m (E-W) is [illegible] scrubby [illegible] and trees. (Used by cow dung)

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION
NO Running water possible low spots	Fairly level with a [illegible] to the west & south	Pasture for cattle some trees, heavy growth in spots

POTTERY
some pottery found [illegible] (surface) 1R on 1G

STONE
mostly rounded river cobbles (metamorphic) some flat pieces rounded small pieces in position?
marble, chert, granitic basalt

OTHER FINDS
[illegible] Small Piece of obsidian

TENTATIVE CHRONOLOGICAL PLACEMENT
mid. to Late Classic

DISTURBANCE
cow path all over site, running over some mounds

LANDOWNER

OTHER COMMENTS heavy growth make some regions hard to [illegible]

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER
5,21	30/III/77	17

PHOTO REFS	Drawing Ref.
	SD2e

NOTEBOOK REFS

#105

Structure Equivalencies

1975	Size	Hgt
Mnd 1	12.8 diam	—
2	x10 diam	—
3	12.8 NS / 9.1 EW	—
4	5.4 NS / 9.6 EW	0.50m
5	10.6 diam	0.75
6	8.2 diam	0.50
7	11.6 diam	1.00
8	9.2 diam	0.75
9	6.2 diam	0.30
10	10.1 diam	0.50
11	12.2 diam	0.30
12	8.1 NS / 5.4 EW	1.00
13	11.2 diam	0.60
14	6.4 diam	0.50
15	3.4 diam	<0.20
16	12.0 diam	1.00
17	13.4 NS / 10 EW	1.00
18	6.4 diam	0.30

1977	Size	Hgt
Str. 1	7.0 NS / 5.2 EW	0.25
—	deleted - some debris present	
2	7.0 NS / 8.4 EW	0.50
—		
♂? 3	5.9 NS / 4.0 EW	<0.50
—		
4	7.0 NS / 7.0 EW	<0.50?
12	5.2 NS / 5.4 EW	0.50
11	5.5 NS / 4.1 EW	0.30
13	3.0 NS / 4.8 EW	0.30
10	5.9 NS / 4.9 EW	0.30
♂? 8	6.1 NS / 4.0 EW	0.30
7	7.0 NS / 4.5 EW	0.25
♂? 9	5.5 NS / 5.2 EW	0.30
—		
—	♂ fallen into river?	
5	6.1 NS / 4.0 EW	0.25
6	2.3 NS 4.1 EW	<0.25

1977 = 1975

Str. 1 = Mnd 1
2 = 3
3 = 5
4 = 7
5 = 17
6 = 18
7 = 13

1977 = 1975

8 = 12?
9 = 14?
10 = 11
11 = 9
12 = 8
13 = 10
14? nothing

Of 1975 strs (18) 13 found 1977, plus 1977 1 poss (though may be debris)

15 = Mnd 2
16 = 4
17 = 6

#106 1975/77 Structure Equivalencies

	1977		1975
Str	1	= Rnd	31 or 30
	2		28
	3		29 or 30
	4		21
	5		19 poss +20
	6		34
	7		17? or 18
	8		23
	9		22
	10		44
	11		pt. of 33
	12		pt. of 33 & or 45
	13		46
	14		47
	15		24
	16		1
	17		7
	18		10? or 4?
	19		~~25~~
	20		—
	21		2
	22		3, 4, or 5
	23		36 + 16
	24		part of 16
	25		8

	1977		1975
Str.	A = 24	= Rnd	51
	B = 27		50
	C = 28		49
	D = 29		48
	E = 30		9
	F = 31		13
	G = 32		12
	H = 33		15
	I = 34		37
	J = 35		43
	K = 36		42
	L = 37		41
	M = 38		40
	N = 39		38
	O = 40		39
	P = 41		35

Rodesc I — no? pt. 30?

II — 6?

III — d? —

IV — a? —

Site #106 1975/77 Structure Equivalencies

1975 Mnd	=	1977 Str
1		16
2		21
3		22?
4		18? ~~22~~?
5		~~22~~?
6		RS ~~21~~?
7		17
8		25
9		30
10		18?
11		—
12		32
13		31
14		—
15		33
16 (comb 36)		23, also pt. 24
17		7?
18		7?
19		~~15~~
20		poss. pt. of str 5
21		~~4~~ 4
22		9
23		8
24		15
25		19
26		— poss pt. of 19
27		—

1975 Mnd	=	1977 Str
28		2
29		3?
30		pos 1? pos 3? poss 25
31		1?
32		— poss pt. 19
33		11 and 12
34		6
35		41
36 (comb 16)		23
37		34
38		39
39		40
40		38
41		37
42		36
43		35
~~44~~		10
45		poss pt. of 12
~~46~~		13
~~47~~		14
48		29
49		28
50		27
51		26
52		—
~~53~~		
=		

OP 2-3 ELEVS.

STA	STR	Elev Summit	Elev Corner 1	Corner 2	Corner 3	Avg. Corner Hgt	STR HGT.
Sta. 1	Inst. Hgt	tot. 5.5					
	Str. A	100.00	SW 97.598	NW 96.690	NE 97.25	97.18	2.85
	Str. B	99.93	SW 96.82	SE 96.52	NE 96.4	96.58	2.35
	Saddle A/B						2.25
	Str. C	96.42	SE 96.538		NE 96.315		neg.
	Str. D	97.049	SW 95.73	SE 95.999	NE 96.5	96.076	.97
	Str. E	97.655	NW 96.712	SE 96.912	NE 97.088	96.903	.75
	Str. F	97.419	SW 96.564	SE 97.365	NE 97.364	97.078	.32
	Str. G						neg
	Str. H	99.735	SW 96.436	NW 96.990	NE 97.[illegible]	96.89	2.84
	Str. I	101.191	SW 97.647	NW 95.92	SE 97.771	97.709	3.99
Sta. 2	Inst. Hgt	101.01					
	Str. J	97.4	SW 95.671	NW 96.90	NE 96.319	96.639	0.76
	Saddle pt	[illegible]	[illegible]	[illegible]	[illegible]	96.975	.34
	Str. K	95.[illegible]	SW 95.33	SE 95.300	NE 96.[illegible]	95.581	2.66
	Str. L	99.75	SW 96.247	NW 96.712	NE 96.661	96.533	3.22
	Str. M	100.74	SW 97.214	NW 96.819	SE 97.005	97.013	3.73
	Str. N	100.789	SW 97.058	NW 97.76	SE 97.499	97.334	3.39
Sta. 4	Inst. Hgt	104.684					
	Str. O	101.304		SE 97.77	NE 98.167	97.969	3.34
	Str. P	101.329	SE 97.99	NW 98.169	NE 99.869	98.641	2.69
	Str. Q	101.390	SW 95.339	NW 99.080	SE 98.432	98.617	2.77
	Q/R Saddle		SW 100.047	NW 100.164	SE 97.866	100.026	1.41
	Str. R	103.003	SW 99.078	NW 99.718 / NW 99.322	SE 98.363	99.120	3.88
	Str. S	103.179	SW 98.481	NW 100.65	SE 97.485	99.545	3.631
	S/T Saddle	S 101.29	E 101.329	N 101.444	NE 100.254	101.338	1.79
	Str. T	103.933	SW 100.171	SE 99.748	NE 100.815	100.332	3.11
	T platform	T jump 100.245	SW 101.[illegible]	NW 102.08	SE 101.239	101.681	1.36
Sta. 5	Inst. Hgt	106.475					
	Str. U	105.065	NW 101.[illegible]	SE 101.596	NE 101.185	101.374	3.69
	U/V Saddle		E 102.629	N 102.758	E WIT 102.446	102.611	1.23
	Superstr		SW 101.25	SE 100.94	Horn 101.06	100.88	

Station	Str.	Elev Sum	Corner	Corner	Corner	Avg. Corner	Absolute Max Hgt
Sta 5	Int	Hgt	106.475				
	Str. V	101.525	SE 100.508	SW 100.289		100.514	1.06
	" proj.	102.49	SE 100.503	NE 100.614	) mid. 100.638	100.519	
	Str. W	—	SE 101.359	SW 101.43	NW 101.389		
	St. X	102.498	NE 101.915	SE 100.972	NW 101.830	101.539	.91
	St. Y	102.804	SE 101.25	NE 101.961	SW 101.986	101.732	1.07
	Str Z	105.260	NW 101.196	SE 101.074	NE 101.774	101.331	3.93
Sta 93	Int	Hgt	102.488				
	St. AA	100.507	SE 99.946	SW 98.095	NW 99.703	98.565	1.94 a
	AA/BB mid		W/AA 99.911	W/BB 99.487	E/BB 99.493	99.460 / E 98.732	AA 2.1 / W 1.49 / E 2.45
	Str BB	101.180	SE 95.677	NE 98.772	NW 99.658	99.053 / 99.855	
	BB/CC mid		/BB 99.862	N/CC 99.855		SW 100.169	AA 2.2 / W 1.91 / E 3.3
	St. CC	101.988	SE 99.139	SW 99.296	NW 100.388	99.774 / Avg 100.116 / W Avg 99.81	W 1.89 / E 2.8
	Str DD	102.619	SW 99.94	NW 99.89	NE 100.758		
	CC/DD mid		/CC 100.724	/ DD 102.358		100.813	1.04
Sta 6	Int	Hgt	103.163				
	Str EE	102.284	NW 101.286	NE 100.498	SW 102.745	W 101.104 / Avg 100.834	1.39
	St. FF	—					low
	Str GG	105.112	SE 101.495	NE 101.654	NW 102.126	101.738	3.32
Sta 7	Int	Hgt	106.655				
	Str HH	104.677	SW 100.881	NW 101.191	SE 100.156	100.719	3.95
	Str II	Sum	only	109.877			
Sta 5	Int	Hgt	104.941			103.75	6.1
	St. II	109.877	NW 104.870	SW 103.352	SE 104.153	104.132	5.74
	Str JJ	103.511	NE 102.66	SE 102.66	SW 102.924	E	E .85 / W .59
Sta 9	Int	Hgt	104.129				
	Str KK	103.445	SE 102.998	NE 103.164	NW 103.136	103.097	.35
	St. LL	103.749	SE 103.391	NE 103.831	NW 103.582	103.601	.14
	Str MM	103.514	NE 103.999	SE 103.88	SW 103.241	103.34	.18

THE NACO VALLEY SURVEY PROJECT: Preliminary Report on the 1977 and 1975 Seasons

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Introduction

This paper is intended as a summary of archaeological survey work carried out during 1975 and 1977 in the Naco Valley, northwestern Honduras. The survey, directed by P. Urban, has been a part of the Naco Valley Project, Dr. J. S. Henderson director, and as such was sponsored by Cornell University, with funding from two sources: the majority of the funds come from the Hirsch Bequest administered by Cornell's Archaeology Concentration; and additional monies have been provided by the Latin American Studies Progaram. My thanks to Professor Henderson and Cornell for all support. Thanks should also be extended to Katherine Abramovitz, who was a member of our staff during both seasons, and the students who assisted me: Jay Hamilton, Annemarie Meike, Daniel Mackesey, Suzanne Riddle, Ilene Sterns and Steven West (1975); and Rosemary Joyce, Hall Huchison, Eric Gentsch, Cynthia Mason, Sharon Pekrul and Douglas Richard (1977). Assistance in 1977 with several of the extensive maps was rendered by Edward M. Schortman; and during that year Anthony Wonderly was also halpful, as was John Miksic in 1975. An finally I would like to express appreciation for the support and consideration extended to the project by Sr. Vito Veliz of the Instituto Hondureño de Antropologia e Historia, Tegucigalpa.

Previous Work

Before this decade, investigations in the Naco Valley, northwestern Honduras, were quite limited in extent. The site of Naco, located in and around the present towns of Naco Nuevo and Flores de Naco (combined under the rubric "Naco" on the valley map, Figure 1) is known from ethnohistorical sources; hence it appears on many archaeologic maps of Honduras, e.g. Yde (1936).

It was not, however, until the joint Smithsonian Institution-Harvard University expedition in 1936 that the valley received more extensive treatment (Strong 1937:75-78;Strong, Kidder and Paul 1938: 27-39). The investigators were in the valley for a mere three weeks but in that time sketched the central group at Naco, and excavated two mounds and part of the ballcourt there. In addition, they visited the sites of Las Vegas, Tres Piedras, Los Cocos, San Luis and Quebrada Tostada. At Las Vegas, the 1.0 m. high central mound was trenched, and excavations at Tres Piedras consisted of two "small stratigraphic cuts" (Strong,Kidder and Paul 1938:37): one in the plaza, and one to the west of the mounds forming the plaza. Both cuts were along the river scarp which dissects the site. The investigators mention that low mounds could be seen along the road from Naco to Cofradia but these are not reported more fully.

This work forms the nucleus around which the valley survey was developed, as discussed below. Strong Kidder and Paul's sites are shown on the valley map (Figure 1) as these operation numbers: Tres Piedras, 1 Las Vegas, 101; and Los Cocos, 105. Naco appears as "Naco". Quebrada Tostada does not appear for reasons discussed below, nor does San Luis, which had no surface remains, but consisted of artifacts visible in the

Rio Chamelecon bank. It has not been relocated, and has been dropped due to the liklichood that river movement has obliterated these remains.

1975 Season

Three foci of effort characterised the 1975 work: relocation of the sites mentioned by Strong,Kidder and Paul in their 1938 monograph; determination of the extents of Naco, a large Postclassic site discussed by Strong, Kidder and Paul (1938), and of La Sierra, an extensive, undated site first encountered by John Henderson during a brief 1974 visit; and exploration of the unknown portions of the valley.

Goals one and two were largely accomplished. All but two of the sites found by Strong, Kidder and Paul were located, notes were taken on them and rough maps made with a compass and tape. Naco and La Sierra were extensively examined on foot. The two northernmost groups at this site were mapped with compass and tape while a contour map was developed for the rest of the site, using a transit, by John Miksic, with the assistance of Hemun Miksic, Abramovitz and the students. The Naco reconnaissance revealed groups scattered over an area of several square kilometers. A number of groups were mapped as above, but no comprehensive map was attempted.

Due to an interest in sampling problems, I had intended to approach the third goal, the valley-wide survey, by means of a statistically sound and theoretically interesting sampling design. For the purposes of the sampling design the valley was defined as an area of 120 km^2 encompassing the entirety of the valley flats and a portion of the foothills (see Figure 1). I developed a stratified, systematic, unaligned design to cover this area. The sample squares were 1/9 of a km^2 in size and were chosen according to the rules for

this type of sample. For the first ten working days Abramovitz and I experimented with crew sizes and spacing, using 3 to 7 people at intervals of 10 to 25 m. walking, in all cases, sufficent sweeps to cover the given sample square. These trials were interesting but the design was abandoned for a multitude of reasons. First was the problem of locating myself on the ground. Large-scale aerial photos were unavailable for the valley, and the 1:50,000 shots were of no use for locating small features. On several occasions the starting coordinate was transited in by Miksic and his assistants, but this is time consuming, impractical for remote areas and is itself somewhat imprecise due to the paucity of benchmarks in the valley. Counted paces were used in most instances to locate the squares from known points such as road intersections, and paces again were tallied to assess the limits of the sample squares. In both cases, however, the method is imprecise, and the concentration required to pace, count, stay spaced and still observe seemed not worth the effort.

A second problem was the topography and vegetation of the area. In several instances, covering the square demanded the impossible: going down 12 m vertical stream banks; climbing hills without regards to footholds; crossing thorn scrub forests and the like. Again, the effort expended in circumventing these problems seemed better used if diverted to other channels.

The sampling design, then, while not unsuccessful in terms of locating remains and learning about the countryside, was unsuccessful and impractical in terms of 'on-the-ground' location, topography, plant life and the total effort expended. It was therefore abandoned in favor of more opportunistic sampling. A local informant, Luis Nolasco,

who had worked for Strong, Kidder and Paul as a young boy, was employed as a guide. In addition, the banks of the Rios Chamelecon and Naco were investigated, and other smaller streams and stream beds were followed. Existing car, foot and cattle paths were used for access to areas away from the highway. All remains were mapped with compass and tape, notes were taken and surface collections were made whenever possible. Finally, some 35 mm color slides were also taken.

During the 1975 season, then, 17 loci were recorded, and an estimated 1/4 to 1/3 of the valley was covered, leaving aside Naco and La Sierra. The coverage, however, was not uniform, but concentrated on watercourses, particularly those near Naco, the La Sierra ranch region and the Manacal ranch in the NE part of the valley, where Strong, Kidder and Paul had worked previously. Despite disatisfaction with the sampling design, the original definition of the sampling universe given above was kept to define the boundaries within which the survey was to be carried out.

1977 Season

The goals of the 1977 season are simply stated. First, the survey would be extended into previously unexplored sections of the valley. Second, it was necessary to return to those sites located in 1975 for two purposes: to plot out routes to these sites, which would use, as much as possible, access roads and tracks drivable with a four-wheel drive vehicle, this with an eye to possible future excavations; and to remap the sites using the techniques of rectified mapping (Carr and Hazard 1961).

After the difficulties encountered in the 1975 implementation of a statistically-based sampling design, a return to a more "traditional" form of surveying seemed in order. This latter approach had several aspects, the first of which involved attention to stream courses, since both the statistically and non-statistically-based surveys indicated a predominance of sites in this type of location. During 1975, parts of the Rios Machaguala, Naco, Chamelecon and an unnamed stream on Rancho Manacal were surveyed (see Figure 1). These were completed in 1977. More, particularly, the Machaguala has been walked from its confluence with the Chamelecon on the east to its entrance into the foothills in the NW corner of the valley; the Naco has been examined from its confluence with the Chamelecon to a point several kilometers west of Op. 126; and the Chamelecon, from its junction with the Machaguala to the Naco, and from approximately 1.5 km north of La Sierra to the Agua Sucio on the south, has been completed. In addition, other streams were checked: the Agua Sucia from the highway to the Chamelecon; and two parts of the San Bartolo - on the west near Ops.

110 and 125; on the east near the town of Cofradia and Op. 128. Several dry, or almost dry, stream courses, called 'Quebradas' were added to the investigated corpus. First is the part of Quebradas Las Tunas which lies on Hacienda San Bartolo, i.e. the hacienda containin Ops. 124, 125 and 127, and most of that portion of Quebrada Las Tunas which lies on Rancho Manacal, a large cattle operation extending from the highway to the Chamelecon and from Cerro Buena Vista on the north to the Rio Naco. Several unnamed Quebradas were also examined; one on Rancho Manacal, a small part of another on Hacienda San Bartolo; a third flanked by Op. 111; and a fourth on the banks of which lie Ops. 119, 133,134 and 135; and a fifth, believed to connect to the fourth, near which lies Op. 116. Quebrada La Guasma was also briefly examined.

Supplementing the stream-quebrada efforts were attempts to investigate those areas lying between stream systems. Although most sites have been located near streams and quebradas, the intervening areas are not without interest; furthermore, some courses are too small to appear on the existing valley maps, for example the small quebrada by Op. 111, and even a stream-based survey would be incomplete without attention to inter-stream/quebrada areas.

As work progressed certain patterns began to emerge which served to guide our observations. No sites, to date, have appeared below the 100 m contour, and most seem to lie between 100 and 200 m. Most sites are also located within 300 m of a stream, either currently running or dry. Finally, many are located on pronounced natural contours or terrace margins overlooking the flats or gently sloping areas between the sites and adjacent watercourses. While we did not deliberately seek out areas which could be described by these three

measures, the emerging pattern did help to focus our attention as the season drew to a close and the desire to accomplish more work in less time increased.

All survey work was, of course, subject to prevailing conditions. One of these, discussed above, is vegetation. Ground cover was scanty at the beginning of the season in late May, but with the rain came high grass and thick scrub. Not only did this hamper locomotion, but it also hindered finding small structures. For example, the two structures of Op. 119 could easily be seen despite the 1 to 1.75 m high grass, but no structures below 0.5 m could have been recognized. A second condition involves the willingness of owners to permit archaeological work. Several gaps in the valley's coverage, e.g. between the town of Cofradia and Hacienda San Bartolo (see above), are the result of not being able to obtain permission from the owners. Once permission had been obtained, moreover, it was sometimes difficult to obtain the cooperation of overseers: Hacienda San Bartolo remains unfinished due both to excessive vegetation and excessive zeal on the part of the major domo with respect to locking access road gates, despite the owner's interest in the project. Given limited resources of time, it was deemed preferrable to abandon an area, for the time being, which could only be reached by a walk equal to 1/3 to 1/2 the working day in favor of more accessible terrain.

Implementation of the survey plans involved the use of both a four-wheel drive vehicle and walking. The target area was approached as closely as possible by car, and the final examination was carried out on foot. For the latter, attempts were made to walk cross-country but with increasingly heavy vegetation, reliance was placed on extant

cattle and foot paths. Crew size and composition varied through time and, after the arrival of the field school students in mid-June, with the needs of the undergraduate training program and the excavation program. The largest group was involved with mapping Op. 116, and consisted of Urban, the six undergraduates, and a local workman for one of the three days spent at the site. For four weeks the crew was composed of Urban and two students who rotated at ten day intervals, sometimes with the assistance of a local workman. For the last four weeks of the season, and the period before the students' arrival, the survey team had two people and, at times, a workman: the pre-arrival work was done by Urban and Schortman, and the post-arrival by Urban and the undergraduates in rotation. On several occasions Schortman replaced Urban due to her continuuing illness.

Townspeople were employed in several capacities. As mentioned above, the survey crew was often accompanied by a workman, if possible, one familiar with the target area, who cut paths and cleared overgrown structures for mapping. A group of five men was hired for clearing operations, in particular at Op. 123 (see below for further discussion). On formal and informal bases local informants were used for directions to and information about sites. Our principal informant in both 1975 and 1977 was Sr. Luis Nolasco, who in 1977 was the representative of the Instituto Nacional de Antropologia e Historia de Honduras assigned to work with the project. Sr. Nolasco also proved invaluable in the arena of arranging permission to walk certain properties which had been closed to us in 1975. Informal questioning of major domos and milperos also produced valuable information. For example, Op. 123 was located with the help of a guide arranged by the president of a local cooperative whom we encountered in the course of our survey.

Sites were recorded through a variety of means. Urban kept a running notebook containing mapping coordinates, data for plotting routes to sites, site descriptions and observations on the survey work. One or all of the team's members filled in a site summary sheet at home, based on notes and personal observations; an example is included as Figure 2. Some photographs were taken, black and white, 35mm, but as the 1975 experience indicated that even a well-cleared mound seldom appeared to advantage, little reliance was placed on this aspect of recording.

The principal thrust of recording was towards mapping or, in the case of the sites discovered in 1975, remapping sites according to the cannons of rectified mapping. In 1975, sites were mapped with ovals representing structures and with some attention to natural contours. The information provided by these efforts was deemed unsatisfactory upon further consideration, so it was decided to switch to a method which might prove more useful. In the defense of the employment of this type of mapping, which requires certain assumptions about the rectilinearity of structures, for an architecturally unknown area, let us mention the mapping program at La Sierra, Valle de Naco. In May of 1977 Schortman and Urban, with the assistance of Ilene Sterns Wallace, began to map the central area of La Sierra. At several points it was necessary to make decisions about such matters as the presence or absence of outset stairways and the manner in which structures were joined. For those structures excavated later in the season, it was found that the assumptions of regularity and rectilinearity were justified, and, furthermore, for those structures which required such decisions as those noted above, the form as revealed by excavation supported the judgements made while mapping.

SITE NO.	NAME	MAP REF:

LOCATION DETAILS

SITE DESCRIPTION

WATER SUPPLY	TERRAIN	VEGETATION/CULTIVATION

POTTERY	STONE

OTHER FINDS

TENTATIVE CHRONOLOGICAL PLACEMENT

DISTURBANCE

LANDOWNER

OTHER COMMENTS

CATALOGUED ITEMS

FIRST VISIT BY	DATE	COMPILER

PHOTO REFS	

The basic survey tool kit consisted of a Brunton compass and tripod - only once was a hand-held compass used - and a 30 m. steel tape. Three operations were, however, mapped with a transit and stadia rod: Ops. 106 and 123, due to their size and complexity, and Op. 113 because of its areal extent and the possibility of unusual features there. In these three operations the usual crew rotation was altered, and the team consisted of Urban and Schortman with changing assistants. At one point in the mapping of Op. 106 two stadia rods were employed, but this was found unsatisfactory since the carriers came from widely differing archaeological backgrounds and therefore seldom agreed on the proper placement of the rods.

In addition, surface collections were made whenever possible. Approximately 1/2 of all the sites had no or negligable cultural debris (sherds, obsidian, manos and metates and so forth). The ceramics from sites with sufficent diagnostic output are being analyzed by Henderson and Wallace.

Finally, some mention of nomenclature should be made. Following the precedent set by Strong, Kidder and Paul in the 1930's, each site is given a Spanish name, either one provided by the local residents or one derived from the name of the land on which it lies or, in the case of multiple sites on one ranch, from a nearby local feature. Each site also receives a number in J. Henderson's enumeration scheme, which involves a sequential number combined with one of two groups of three letters, HSB if the site lies in the departmento of Santa Barbara, or HCR if it lies in Cortes. Urban, however, finds this system cumbersome, and has therefore resorted to the use of operation numbers, as seen above. This system is based on the Tikal operation-sub-operation numbering system. Each site receives an operation number,

commencing with 100; each activity, such as mapping or excavation, receives a sub-operation letter designation. For example, the site of Santo Domingo has been designated Op. 123, the mapping of Santo Domingo is Op. 123A, and excavations there are 123B, 123C and 123D. On a conceptual level, this system is close to Ashmore's (1974; 1977) system for the Quirigua, Guatemala area. "Site"is used neutrally, much like Ashmore's locus. Operation numbers replace locus numbers and have a slightly broader usage: some single operation numbers have two or more groups included in them, which in Ashmore's schema would receive separate locus numbers.

It should be noted that the issue of defining "site" has been carefully avoided. Following precedent for this area, contiguous or roughly contiguous groups of mounds/structures are considered to be one site and receive one operation number. A working definition of "contiguity" has been that the groups in question can be seen one from the others, or at least, in some cases, i.e. Op. 111, nearest neighbors are visible to one another. In practice there has not been more than 250 m between the groups of one site, and there has been at least 0.5 km between groups designated as separate sites.

The use of operation numbers, then, has twin motivations. One is to move away from loaded terms such as "site", and even from using local names as anything but shorthand referents and for talking with residents, to a more neutral method of designation. Secondly, it seemed desirable to devise a nomenclature which would be compatible with any future work done at a site. The Tikal system fulfills this wish, in that it is expandable to cover any number of activities, and can also serve as the basis of recording artifacts, a matter which will not be covered here.

Results

The results of the 1975 and, in particular, the 1977 seasons can be discussed on several levels. On a purely areal basis, 1/2 to 2/3 of the valley has been covered, as a rough estimate. This estimate includes two areas not within the purview of the survey project: the extensive site of La Sierra under the direction of J. Henderson; and an area of approximately 6-8 km^2 around the modern town of Naco, which has been mapped and test-pitted by A. Wonderly. In numerical terms, 35 sites have been located at least provisionally. One other, Op. 109, is Quebrada Tostada, a site discussed by Strong, Kidder and Paul(1938:38); it has not been relocated so far and informants have not mentioned anything which would fit its description or reported location. Of these sites, 25 were mapped in 1977; a map for another has been reconstructed from 1975 data; and Ops. 103, 130, 131 and 132, consisting of 1, 1, 2 and 3 mounds respectively have not been remapped due to their small size. Four sites from the 1975 survey, Ops. 107, 112, 117 and 118 were not resurveyed since they were in dense growth and had no more than eight structures each; energies were concentrated on unknown but more accessible areas. Finally, two sites Ops. 127 and 129 are known only by informant's report. Both are in dense undergrowth and would have required extensive clearing for which resources were lacking. All sites are listed by operation number in Table 1, and both Spanish names and Henderson-system numbers are also provided. In addition, all are represented on the Valle de Naco map, Figure 1.

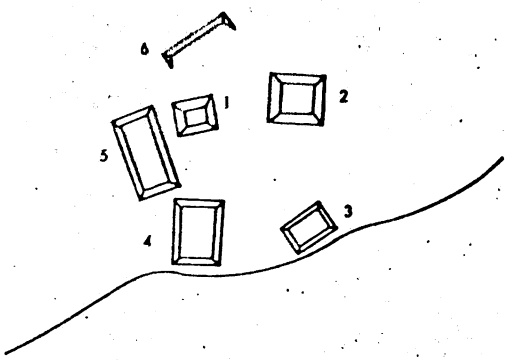
Four sites are presented below to illustrate the valley's range of settlement; but before turning to their descriptions, let us examine the bases of site classification in the valley and hence the reasons why these sites were chosen. As yet there is no formal hierarchy for sites in the valley, although a few tentative steps have been taken in that direction which will not be discussed herein. Nonetheless, in terms of sheer numbers of structures per site, there are four broad categories: 1.) 10 or fewer with 13 sites; 2.) 11-20 with 10 sites; 3.) 21-30 with 4 sites; and 4.) 31 or more with 2 sites. Seven sites are not known in sufficent detail to permit their inclusion in this listing. Maps for one site from each grouping have been included: Figure 3 shows Op. 102 of Group 1; Figure 4, Op. 134 of Group 2; Figure 5, Op. 116 of Group 3; and Figure 6, Op. 123 of Group 4. The subjective basis for choosing the Groups 1, 2, and 3 examples has several components. There seem to be two different valley-wide patterns in terms of agglomeration vs. dispersal. The dispersed sites cover larger territories for the same number of structures than do nucleated sites; in addition, certain construction features which link structures in nucleated sites seem absent in the dispersed ones. The dispersed sites, however, are much less common than the nucleated, by a ratio of four or more to one. The examples have been chosen to represent the nucleated type, since this seems to be the most common pattern. They also illustrate certain constructional features of particular interest. Moreover, there are a few emerging principles of location and arrangement which hold true for both groups, and which could be illustrated by the nucleated sites as well as the dispersed.

For Group 4 sites, of which there are only two within the purview of the survey, the anomaly, Op. 123 was chosen rather than the more

typical one, Op. 106. The latter adheres to the same constraints of structure size and arrangement as Op. 116, the Group 3 example. Op. 123, on the other hand, is, so far, unique in the valley because of the heights of its structures and their sheer massiveness. Preliminary ceramic evaluation also indicates that this may be the earliest group so far discovered. Finally, Op. 123 presents some constructional features found in other sites, on a much grander scale, which makes them readily appreciable. It, therefore, has been illustrated in preference to Op. 106.

Let us now turn to short descriptions of these sites. The Group 1 representative, Op. 102, is located on the southern margin of Rancho Manacal. It consists of five mounds and one faced contour. The mounds are easily recognizable features, standing 0.25 to 0.75 m high, and are constructed of river cobbles and earth. The second term, "faced contour", is used to describe a feature found in approximately 1/5 or more of the valley's sites. These features appear to be natural rises or contours which have been enhanced or built up with river cobbles to straighten out the natural curve and, perhaps, to extend and flatten the area available to adjacent structures. The contour is labelled "6" in Figure 3. A second aspect of Op. 102 is also common to other sites - the irregular arrangement of the structures, which are placed without specific orientation either in absolute terms or with respect to one another. The resultant enclosed space, while possibly equivalent to a "plaza" or "plazuela" on functional bases, is far from these on formal grounds. Finally, Op. 102 is located along a steep natural contour represented by the curved line seen on Figure 3. The drop to the terrace below is c. 2 m. From the base of the contour the terrace slopes gradually to the Rio Naco, about 300 m. to the east of

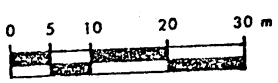
FIGURE 2



OP 102

NACO VALLEY

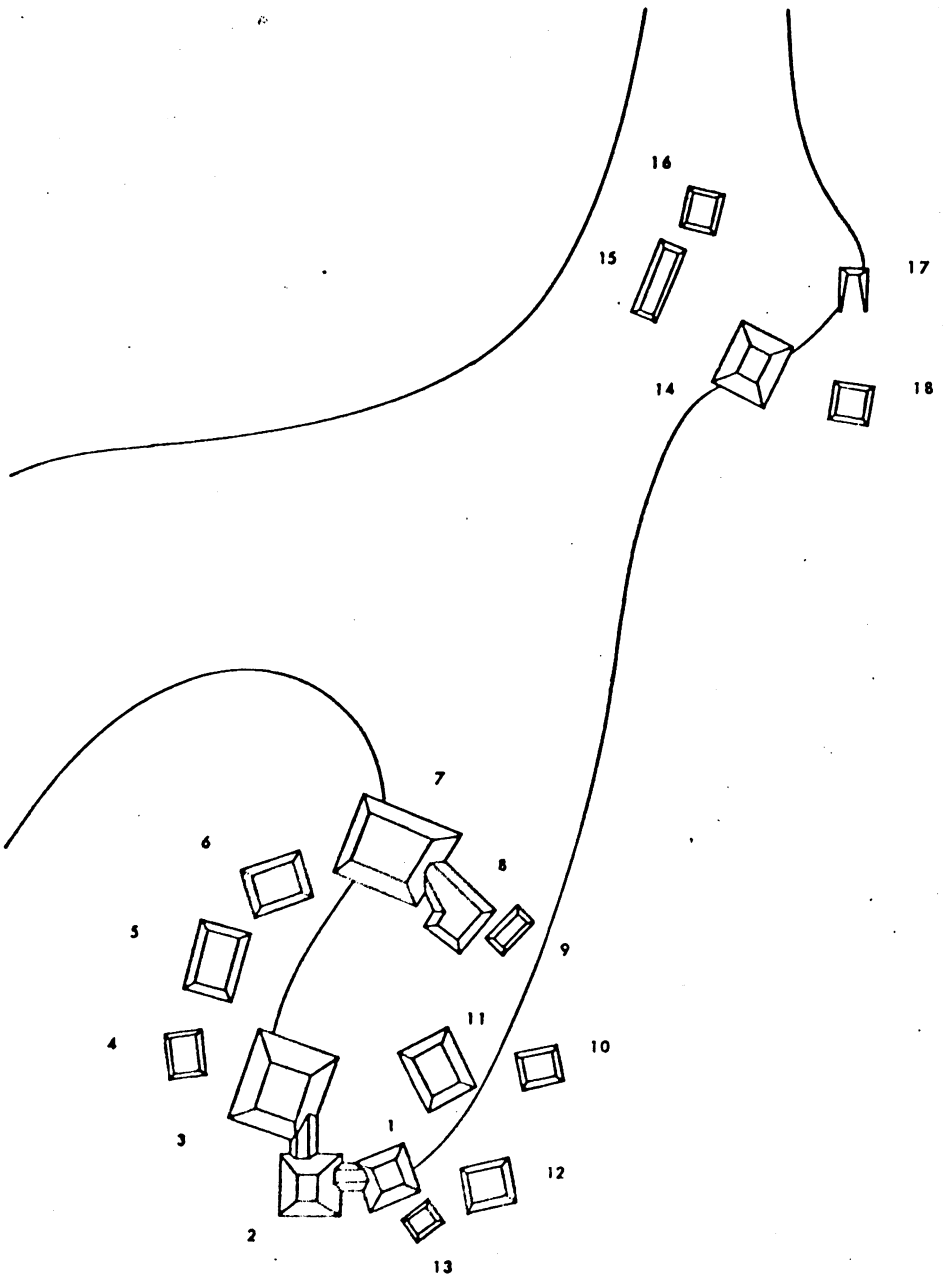
SURVEY PROJECT



the site. In contrast, the land upon which the site is built is relatively flat, with the exception of such "micro-contours" as the one faced to make Str. 6. Op. 102 is, then, a typical small group, and most of its characteristics will appear in the larger sites.

The Group 2 representative, Op. 134 (Figure 4), is located at the approximate center of the valley with respect to the area's N S axis, and is c. 1.2 km west of the main highway on Embacadora Alus, a cattle ranch. A small, unnamed stream lies 250-280 m. to the SW. The stream course is dry elsewhere; for example, .5 km west of the highway and by Op. 135, which lies c. .75 km to the west. The water in it near Op. 134 seems due to channel enhancement performed when the property was in the hands of the United Fruit Company. The land is gently sloping, higher on the E and SE than on the N and NW. Natural changes in the ground surface were used to place the sites 18 structures, which are divided into two groups: Strs. 1-13 in the southern group, and 14-18 in the northern. The lowest point of both groups lies within the rough "plazas", although slightly off-center in both instances, i.e. the lowest point in the southern group is between Strs. 3 and 11. the southern group also illustrates how buildings placed along contours are often linked by walkways called "saddles", such as that linking Strs. 1 and 2 and a second between Strs. 2 and 3. Strs. 3 and 7 show how differential heights within one structure are achieved by placement along contours. The west face of Str. 7 is much less high than its east face, and the south and west faces of Str. 3 are less high than the north and east ones. In Str. 18 of the northern group we see an example of a structural type which falls between a low structure and a faced contour. The northern side of Str. 18 has perceptible altitude, but the structure's height decreases on both the

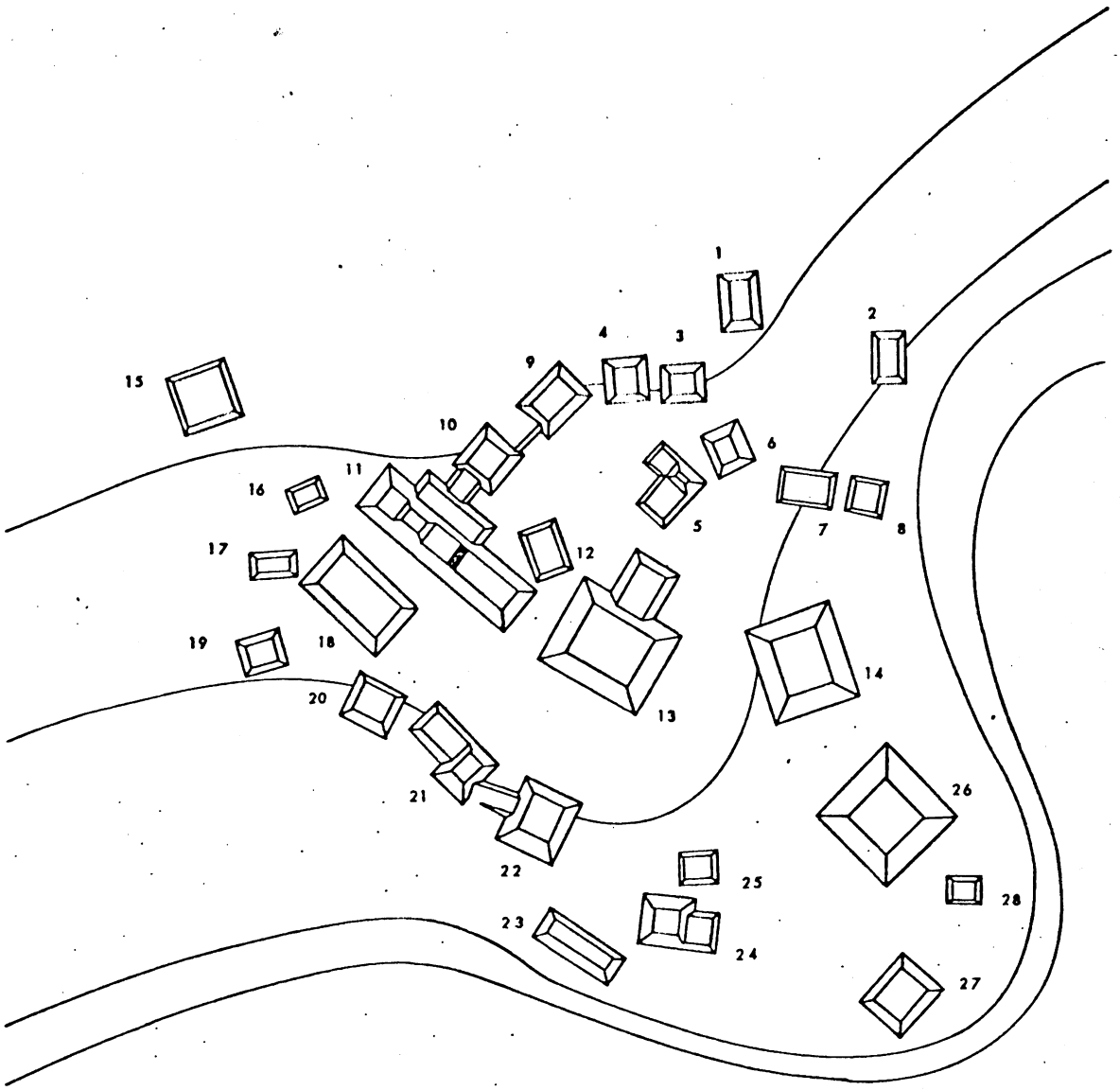
FIGURE 3


16
15
17
14
18
7
6
8
5
9
11
4
10
3
1
12
2
13
N
OP 134
NACO VALLEY
SURVEY PROJECT
0 5 10 20 30 m

east and west sides as one moves south, until there is little to suggest a distinct structure. The drawing of Structure 18 in Figure 2 attempts to convey this situation in graphic form. Furthermore, the site as a whole illustrates the mixture of structure sizes found in most sites in the valley. Structure 3 is c. 2.3 m. in height, Strs. 7 and 14 are 1.5 m. or higher, ut Strs. 13, 15 and 16 are only 0.25 m. and Str. 17 is c. 0. 30 m. on the north with no observable height on the south. Op. 134 does possess one somewhat amomalous feature - the gap of some 45 m. between the two groups of structures. While in most respects the site is typical of medium-range nucleated groups, this separation is reminiscent of more dispersed sites.

Op. 116, the representative of Group 3 sites, exemplifies on a larger scale many of the characteristics of the previous two categories. The site, with 28 structures ranging from 0.20 to c. 2.3 m. in height, is located along a quebrada which no longer carries running water year-round. Strs. 23 and 24, on the southern margin of the site, are situated at the edge of a contour defining a 2 to 4 meter drop from the relatively flat land where the site lies to the bottom of the channel. To the NE near Str. 2 the slope is more gradual, but the abrupt change in altitude between the quebrada bottom and the more level ground surface above continues to the west. While the quebrada is used to define the site's southern and eastern borders, on the north a smaller contour marking a c. 0.50 m. change in height was used both to orient the northern line of construction, Strs. 1, 3, 4, 9 and 10, and 16, and define the northern margin of the site. Strs. 9 and 10 are formally linked by facing the contour, and the structural line is continued with the saddle connecting Strs. 10 and 11. Similar use of both techniques - a contour for structure placement and

FIGURE 4



OP 116

NACO VALLEY

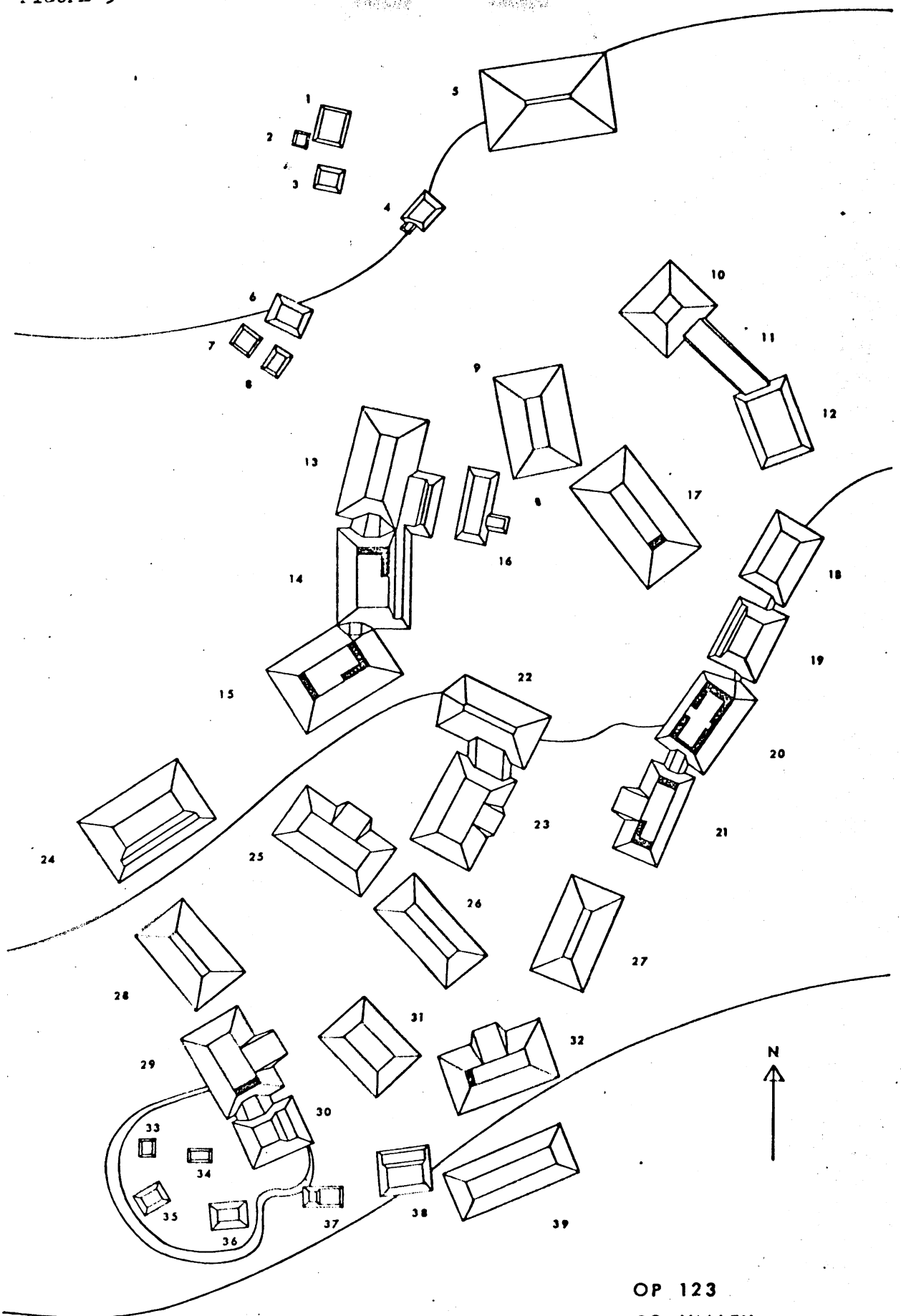
SURVEY PROJECT

a saddle to join structures - is seen in Strs. 20, 21 and 22. These methods, of course, have been seen in the previously discussed sites.

At Op. 116 two enclosed spaces approximate plazas, but again both have features distinguished in other valley sites. The area enclosed by Strs. 4, 5, 9, 10, 11 and 13 forms a rectangle measuring approximately 25 by 30 m.; but on the south a portion of the space is occupied by a very low entity, Str. 12. The open space surrounded on the north, west and south by Strs. 11, 13, 18, 20, 21 and 22 is also rectangular and has no construction in its interior, but the probable northeastward orientation of Strs. 11 and 13 casts doubt on any interpretation of this space as a functional plaza. On the whole, then, Op. 116 exhibits features typical of other sites in the Naco Valley, and shows how sites larger in terms of areal extent and numbers of and heights of structures adhere to some "rules" of location and internal arrangement which will be further discussed below.

As discussed above, Op. 123 (Figure 6) has been chosen for mention in preference to the other Group 4 site, Op. 106. It is located in the extreme northern part of the valley (see Figure 1) and is to be found on a hillside terrace. This is in contrast to the majority of the sites so far discovered, which lie either in the open valley flats or on level ground near but not in the foothills To the north and east the mountains rise steeply, and to the south there is an abrupt descent to the Machaguala fllod plain. On the northwest the terrace is dissected by a stream which joins with the Machaguala in creating a sheer scarp of at least 12 meters in height to the west and southwest of the site. The scarp is encroaching on upon the site's terrace, and is presently c. 30 m. immediately west of Str. 24. Op. 123 is comprised of 39 structures ranging in altitude

FIGURE 5



OP 123
NACO VALLEY
SURVEY PROJECT

0 5 10 20 30 m

from c. 0.15 m. (e.g. Strs. 33 and 34) to 6 m. (Str. 5). The site is notable for both absolute structure height as well as the degree to which tall structures dominate the site: 8 structures are 3.5 m. or more in height, while a plurality of 21 structures is higher than 2 m. Only the central area of La Sierra (see Figure 1) and Op. 110 of the Valley Survey exhibit such an emphasis on tall structures, but in neither case are the constructs as high as those of Op. 123: of Op. 110's 2 dozen structures, 9 are over 2 m., but none is above 3.5 m.; and Str. 1A-1 at La Sierra is no higher than 4 m., while the remaining 25-30 structures of the central group are 3 m. high or less.

Due to the lack of soil deposition, the constructional features of Op. 123 are remarkably clear to the eye. The only construction materials present on the surface were river cobbles and chunks of stone from nearby outcrops, but with cobbles predominating; no cut stones or natural slabs, such as schist lajas, were seen. The lack of overburden permitted the mapping of very low structures, some no more than 0.15 m. in height. In addition, it was possible to see architectural features such as staircases present on Strs. 21, 23, 25, 29 and 32, and what are presumably frontal terraces, observable on Strs. 13, 14, 19, 24, 30 and 38. Another feature of interest is the presence of what seem to be standing walls on seven structures: 14, 15, 17, 20, 21, 29 and 32. Str. 20 is of particular note, as it seems to have a large somewhat cruciform-shaped room occupying its summit platform.

In keeping with patterns found elsewhere in the valley, saddles are used to link structures into two sets of pairs - Strs. 22 and 23, and Strs 29 and 30 - one triplet - Strs. 13, 14 and 15 - and one line

of four - Strs. 1 - 21. This latter line of four also illustrates the use of contours at Op. 123. Strs. 19 and 18 and 20 are linked by a faced contour type of saddle, while the saddle between Strs. 20 and 21 is free-standing; Str. 21, moreover, is built completely off the contour, while Strs. 18-20 are placed so that the one meter high contour passes through them. The contour turns west at Str. 20 to meet Str. 22; between these entities the contour is faced with stone, but does not seem to have been made rectilinear.

In three other areas distinct contours can be seen, as opposed to the obvious but more gradual south-trending slope which characterizes the Op. 123 area. In the northern sector of the site Str. 4 is built along a c. 0.5 m. high contour which joins it to Str. 5, although this contour is not faced. The line continues southwest of Str. 4, but it is no longer noticeable as a pronounced change in elevation by the time it reaches Strs. 6-8. On the south, another contour c. 0.5 m. high runs NE - SW across the site. It does not, however, seemed to have guided construction as much as the two more northerly contours did. Finally, to the southwest of Strs. 29 and 30 lies a terrace upon which rest Strs. 33-36. This area seems to have been a natural rise augmented, especially on the south and west, by cobbles and earth. At its highest, by Str. 35, the terrace rises to c. 1.5 m. and it decreases to no elevation where it joins Strs. 29 and 30.

On the whole, then, Op. 123 has many aspects in common with the smaller sites discussed above. Naturally occurring level changes help to determine placement of structures within the site and the contours are often faced to serve as linkages between mounds. Saddles are also present, and cobble construction appears throughout. Op. 123 is, however, eccentric in its hillside placement, and in the height

and mass of its structures.

In addition to mapping this site (Op. 123A) it was decided to undertake a brief program of excavations in several of the smaller structures. Surface collections, obtained primarily from the road which passes along the western margin of the site, produced ceramic materials widely different from those obtained at the other sites in the valley, as well as much obsidian. Since it is also a long-term goal of the Survey Project to excavate at a number of sites in the valley for chronological purposes, Op. 123 seemed to be a good starting point for this work.

Four suboperations, 123B, C, D and E, were initiated under the supervision of Urban, assisted primarily by Hu chi son; Joyce oversaw the first day of work at 123B, and Gentsch aided in drawing sections of 123C, D and E. Suboperation 123B was a 2 by 2 m. test pit with its sides oriented along the cardinal directions, and placed c. 3 m. south of the southwest corner of Str. 24. This location was chosen because of the wealth of pottery and obsidian on the surface there and c. 2.5 m. west in the road. The NW corner of Str. 24 is cut by the road, and both on the mound's surface and in the cut sherds and obsidian could be seen; therefore, presumably, the surface finds originated from Str. 24 and its immediate area. After removal of an initial level measuring c. 0.30 m. below ground surface on the north face, but c. 0.20 m. below surface on the south, due to the slope of the ground, excavation proceeded in 0.20 m. levels to a total depth of 1.3 m. Only the first 0.50 m. contained artifactual material, principally sherds with some obsidian chips.

Subop. 123C consisted of a north-south axial trench c. 1.5 m. wide east-west by 7.5 m. long north-south through Str. 8. No definite

architectural features were uncovered, but evidence suggests that the original structure was a built on a ground surface now located c. 0.60 m. below the present surface, and consisted of two cobble retaining walls between which was packed earth containing sherds and other cultural debris. The two rough walls enclose a space measuring c. 1.5m. north-south, and stone tumble extends for approximately 1.75 m. to the north of the northern wall and 1.4 m. south of the southern wall. Sherds were found throughout the tumbled stones, and a mano fragment was recovered from the southern tumble, but no sherds were encountered below the base level of the walls, that is, deeper than 0.60-0.70 m. below ground surface. The general area was greatly disturbed by roots, but the southern end of the trench was more heavily disordered than the rest.

Subops. 123D and E represent, respectively, the southern and northern portions of an axial trench through Structure 6. Again, both were 1.5 m. in width east-west, and 123D extended for 2.7 m. north-south, with 123E running for 3.3 m. A gap of c. 0.90 m. of unexcavated material separated the two; and although the trenches were planned so that the west wall of 123C would line up with the east walls of 123 D and E, the trenches were not connected due to the presence of a tree; the gap between C and D was 0.30 m.

123D revealed no architectural features, but did yield an abundance of sherds from among the stones. The sterile clay level encountered in both 123B and C, the presumed original ground surface, was followed as it rose from south to north. Overlying this level were 0.20 to 0.50 m. of tumbled material consisting of river cobbles and larger stones. The thickness of this layer increased from south to north, and the slope of its upper surface conformed to the apparent

rise in what appears to be the original ground surface.

Trench 123E, on the apparent summit of Str. 6, did reveal several features of interest. On the northern end of the trench in the northwest corner, a wall standing only c. 0.30 m. high was revealed; it was composed of large slab-like stones, unfaced. At a distance of 1.3 m. to the south a second wall emerged on the west side of the excavation, with what seemed to be a matching construction showing in the east wall of the trench. Running east-west between these two southern walls was a surface of long flat stones, each approximately 0.35 m. long north-south by 0.20 m. wide east-west; these covered the western half of the trench, while the east half had a similar surface of smaller stones which were oriented east-west. To the north of this surface, extending for a distance of c. 0.60 m. was a rough cobble pavement, the north terminus of the pavement approximately corresponding to the north side of the walls. Overlying the cobble pavement was a 0.06-0.08 m. thick layer of fine textured orange earth, quite distinct from the brown topsoil which covers it and the sterile yellow clay which underlies it. Unfortunately, the surface was somewhat disturbed by root action, so that it is uncertain whether it extended to the north throughout the possible room of the superstructure or not. On the south, however, the orange surface was coterminus with the cobble pavement, and ceased at the large stone surface discussed above. In summary, then, Structure 8 appeared to have a superstructure constructed of cobbles and larger naturally faced stones. The area intersected by 123E is possibly a doorway paved with large flat stones on the south, and on the north by a cobble surface overlain by packed orange earth. The 0.30 m. high wall discussed initially above may have served as a rear wall to this structure or as part of some internal architectural

feature. Cultural materials found consisted of sherds, and all appear to have been from above the orange level, and usually from in among the tumbled rocks within 0.40 m. of the present ground surface.

The ceramics from all trenches, on the basis of preliminary field assessments, would seem to be from, predominately, bowls and ollas. This combined with the nature of the construction points to a domestic function for these two structures. The ceramics are, however, markedly different from other known sites in the valley, in particular, La Sierra. Preliminary ceramic assessment (J. Henderson, personal communication) points to an early Classic or possibly Proto-Classic date. Comparison of the Op. 123 materials with Strong, Kidder and Paul's findings (Strong, Kidder and Paul 1938, Strong 1937) reveals some similarities with the lower Playa de los Muertos assemblages. Final evaluation is, of course, pending, but this site now appears to be the earliest known site in the Naco Valley.

Further investigation during 1977 was not possible due to limitations of time and money: 5 men were employed for two weeks in clearing the site sufficently for mapping, and the same 5 served as an excavation crew during the week alotted to excavation.

Conclusions and Future Work

Much of what could be offered by way of conclusions has been discussed above in the site descriptions. But, at the risk of being redundant, let us recapitulate some of the results of the survey. There are, first of all, some emerging regularities in site placement. Most sites are within 300 to 400 m. of a stream course, either with running water or presently dry. (It should be noted that these observations on streams have encompassed both unusually dry and normally rainy periods.) All but 4 of the sites so far located are below the 200 m. contour. Localities also lie on the broad flat lands, with three exceptions, Ops. 126 and 107 along the narrow, westward course of the Rio Naco, and Op. 123 discussed above. Two sites above the 200 m. contour, Ops. 110 and 125 are on flat land, for the rise in ground surface is as yet gradual around the western portion of the Rio San Bartolo.

Site planning, with the exception of one of Op. 104's groups, exhibits a lack of rectilinearity. There are, first of all, no clearly defined, regular plazas. The placement of structures also lacks rectilinearity, although regularities do exist among structures because of the use of contours to define certain structural lines. Natural differences in elevation are also extensively used to define the boundaries of a site.

In terms of architecture, certain features are shared by many sites: the use of saddles to link adjacent structures; and the use of faced contours to both link structures and extend and level spaces around structures. Construction with cobbles is the most common

technique recognized, but this varies with proximity to other materials. For example, Op. 113 is near a limestone outcrop containing nodules of marble-like stones; the mounds here are virtually all constructed of the white stone, to the exclusion of cobbles; and those sites near schist outcrops tend to make use of chunks of schistose rock.

The similarities carry over to the valley's most extensive site, La Sierra. Similar organizational principles are at work, something clearly seen in the site center map prepared by Schortman, with the assistance of Urban and the 1977 student crew. The Naco area is less certain. Personal observation suggests that many of the groups included in the Naco Survey Area exhibit the above regularities. But the central area, known to be Postclassic, is different. Assessment of patterning in the Naco area awaits completion of the map.

On the basis of these regularities it is possible to make an estimate of what lies in the valley's unsurveyed portions. At most, 2 dozen sites may yet await discovery, and, at the least, ten, with 14 to 18 being the most likely range. Future survey work will attempt to fill in the gaps in that part of the valley north and west of the Chamelecon. The area south and east of that river must also be examined. It is hoped that this part of the survey will be completed in 1978, and that a program of selective excavation can be accomplished in the near future.

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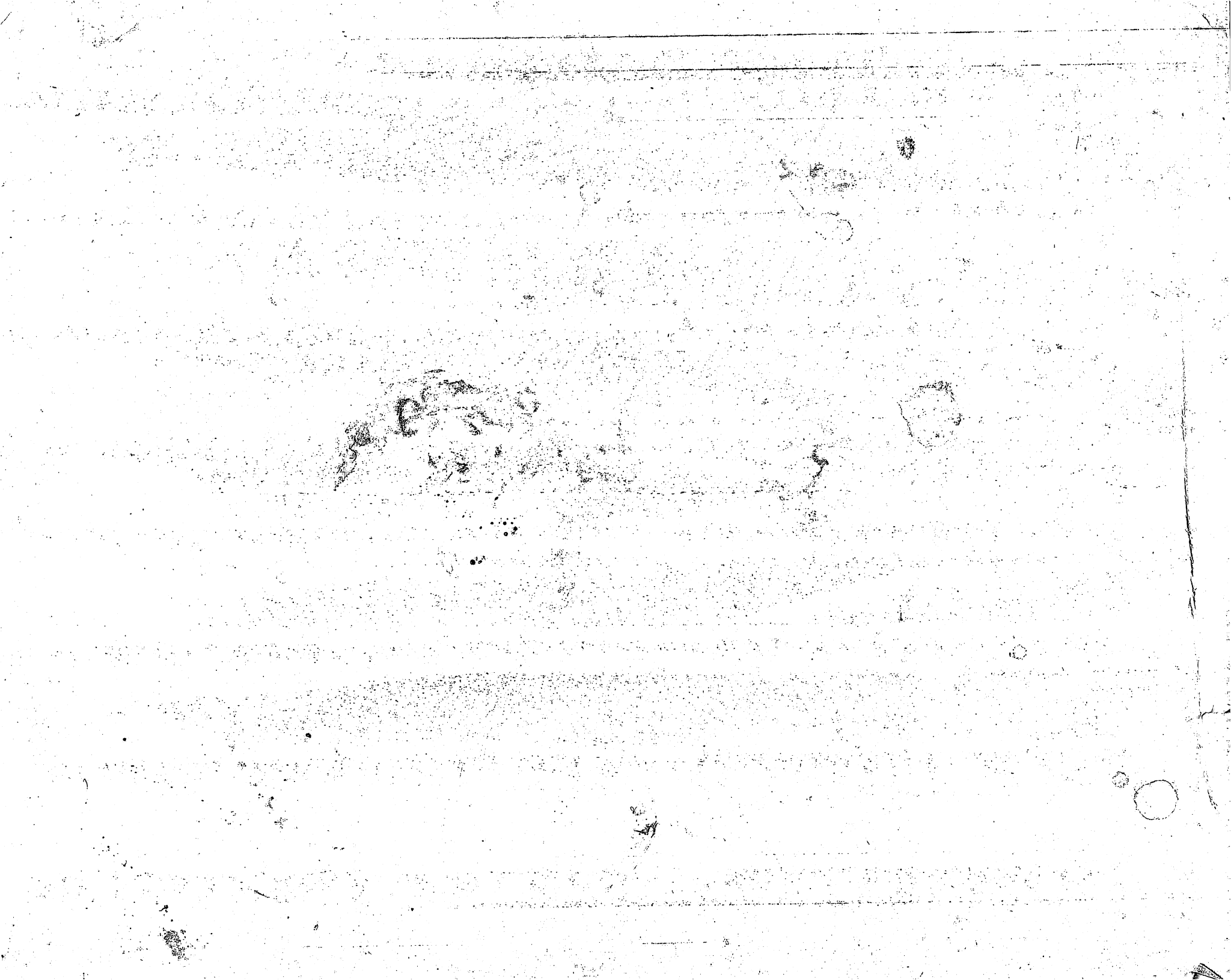
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