Datum	S E	El. above M.S.L.		From FSC BM #106		El. 189.72' a. MSL = ~~57.23~~ 57.82 m
Area XV	S 170 E 501	57.236 m	= 57.23			
XIV	S 200 E 450	57.876 m	= 57.9			
XIII	S 243 E 429	56.69 m	= 56.7			
XIV	S 235 E 457	56.596 m	= 56.6			
XVI	S 307 E 457	57.596	= 57.6			
XVI	S 307 E 460	57.626				

PAGE NO.

PREPARED BY

DATE

ELEV.'s of Features + assoc. Datums

		Surface/EL./m	Datum Top	Datum Base
S 254 E 300				55.84
Fe #662	~Area X	55.03		
Fea. #663	~AREA V-D	53.99		
Fea. #666	Area V-D	Feild Notes call stks "A" "East Stk" A	56.475 m/above MSL	
		B	56.865	
		C	56.765	
		D	56.755	

uncoated

3-18-88 PLW AREA XIII *cont. from orange book HI = 1.42 π over S243 E 429 Aligned over C. North GS at S170 E501 = 57.236 m ORANGE SURVEY BOOK PG. 13

	2.54			EL/m above MSL	Dist/m
50)	2.51	160° 30′	55.60	c.pt. South Slope of Area near crest of slope.	5 m
	2.49				
	2.32	115°	55.81	contour pt East-near crest of slope.	3m
51)	2.30				
	2.29				
52)	2.24	88°30′	55.89	Contour pt East side of site.	4
	2.22				
	2.20				
	1.57				
53)	1.55	227° 35′	56.56	Contour pt. In site boundry	5
	1.52				
	1.71				
54)	1.68	246° 34′	56.43	" " "	7m
	1.64				
	1.94				
55)	1.90	270° 20′	56.21	" " "	9m
	1.85				
	2.72				
56)	2.63	255° 45′	55.48	19 Contour pt to the west crest of sm. reviene along west edge of Area XIII.	
	2.53				
	3.07				
57)	2.99	257°	55.12	17 c. pt midway along west slope of ~~reviene~~ reviene	
	2.90				
	3.55				
58)	3.47	259° 30′	54.64	15 c. pt - base of revine.	
	3.40				
	2.54				
59)	2.46	271°	55.65	16 c. pt. (Northern extent of ravine	
	2.38				
60)	2.06	175° 44′	56.05	20 contour pt. North of Ravine	
	1.96				

3-18-88 AREA ~~XIII~~ cont.

			EL/ m above MSL	dig+/m	
61)	2.12 2.06 2.00	279°	56.05	12	contour pt. in site area
62)	1.63 1.59 1.55	284° 33'	56.52	8	" " "
63)	1.34 1.32 1.30	300° 20'	56.79	4	" " "
64)	1.28 1.26 1.24	2°	56.85	4	" " "
65)	1.48 1.46 1.44	43°	56.55	4	" " "
66)	2.25 2.22 2.19	55°	55.89	6	c.pt. at east edge of site nearest of slope.
67)	2.27 2.23 2.19	38° 20'	55.88	8	" " "
68)	1.36 1.32 1.29	20° 30'	56.79	7	c. pt. center of site
69)	1.07 1.04 1.01	353° 35'	57.07	6	" " "
70)	0.99 0.95 0.92	326° 45'	57.16	7	" " "
71)	1.17 1.12 1.08	312° 15'	56.99	9	" " "
72)	1.43 1.37 1.30	306°	56.74	13	" " "

AREA XIII cont.
3-18-88

			EL./m above MSL	dist/m	
	1.62				
	1.54	301° 22'	56.57	16	contour pt.
73)	1.46				
	1.59				
	1.50	297° 26'	56.61	18	" "
74)	1.41				
	1.51				
75)	1.48	294°	56.70	21	" " west edge of site
	1.30				
	1.06				
	0.94	298°	57.17	24	c. pt. west edge of site area.
76)	0.82				
	1.25				
77)	1.15	305°	56.96	20	" " "
	1.05				
	1.24				
78)	1.15	314°	56.96	17	c.pt along center of site.
	1.07				
	1.04				
79)	0.97	326°	57.14	14	" " "
	0.90				
	1.01				
80)	0.95	344° 20'	57.16	13	" " "
	0.88				
	1.18				
81)	1.12	357° 30'	56.99	12	" " "
	1.06				
	1.48				
82)	1.41	14° 50'	56.70	13	c.pt. along ~~East~~ crest of East Slope
	1.35				
	2.07				
83)	2.01	24° 38'	56.10	12	
	1.95				c.pt. along slope of Eastern site boundary

3-18-87 AREA XIII cont.

			EL/m above MSL	Dist/M	
84)	3,29 3,22 3,15	31° 30'	54.89	14	contour pt. Farther East down slope.
85)	2,72 2,64 2,56	23° 49'	55,47	16	c. pt. down East slope
86)	1.61 1.53 1.45	13° 29'	56,58	16	c. pt. along East slope crest.
87)	1.26 1.19 1.11	359° 22'	56.92	15	contour pt.
88)	1.03 0.96 0,89	345° 40'	57.15	14	" "
89)	0,97 0.90 0,83	331°	57.21	14	" "
90)	1,09 1.01 0.92	321°	57.10	17	" "
91)	0.95 0.84 0,74	316° 48'	57,27	21	" "
92)	0.67 0.55 0.42	313° 50'	57.56	25	" "
93)	0.14 —	T.H.		Base Hub. to S 200 E 425	
94	0,06 —	TH		Top Hub " " "	

AREA XIII cont.

3-22-88
DLWT AK

H.I = 1.44 A = 56.69m above MSL

Tangent of 2°
.0349

π over S 243 E 429 alligned G north

Pist/m Tube elevated 2° above Horiz. .34

	1.25		El.m	Pist/m (uncor)		
93) 1)	1.10	313°	57.43	contour pt.	south of "OLD RD.	
	0.94			31 30.98	0.741	
	1.23			2° El.		
94) 2)	1.08	322° 15'	57.34	"	" "	.36
	0.94			29 28.98		
	1.30			2° El.		
95) 3)	1.17	335° 36'	57.32	"	" "	.27
	1.04			26 25.98		
	1.66			2° El.		
96) 4)	1.54	147° 15'	57.46	"	" "	.10
	1.41			25 24.98		
	1.88			2° El.		
97) 5)	1.74	355° 28'	57.36	"	" "	.30
	1.60			28 27.98		
	1.76			2° El.		.16
98) 6)	1.60	355° 15'	57.61	pt. just S. of machine rut.		
	1.45			31 30.98		
				crest S x OLD RD ? N		.02
	1.58			2°		
99) 7)	1.42	344° 25'	57.75	poss. S. edge of OLD RD.? ~ crest of Rd "Edge"		
	1.27			31 30.98		
	1.21			2° E.	" " "	.38
100) 8)	1.06	336° 37'	57.35	30 29.98	" " "	
	0.91					
	1.27			2°		
101) 9)	1.11	328° 45'	57.47	"	" "	
	0.95			32 31.98		.33
	1.24			2°		
102) 10)	1.07	319° 25'	57.50	"	" "	
	0.90			34 33.97		.37

Area XIII cont. HI 1.44 m

				EL.	Dist [uncert. corr.]	Tube EL. 2° above Horiz.	HI - MHair
103)	11)	1.21 1.03 0.85	313° 46'	57.53	2° EL 36 35.97	Crest of S. Edge of OLD RD.	.41
104)	12)	1.41 1.23 1.04	319°	57.77	2° EL 37 36.97	S. Edge. Surface of OLD RD. below crest.	.21
105)	13)	1.41 1.23 1.06	319 30°	57.70	" 35 34.97	" "	.21
106)	14)	1.49 1.33 1.17	336°	57.69	" 32 31.98	" "	.11
107)	15)	1.60 1.44 1.28	340° 45'	57.80	" 32 31.98	" "	0
108)	16)	1.64 1.46 1.28	343°	57.92	" 36 35.97	N. Edge "OLD RD"	.02
109)	17)	1.78 1.61 1.44	350°	57.70	" 34 33.97	counter pt.	.17
110)	18)	1.48 1.30 1.12	335°	57.80	" 36 35.97	N. Edge of OLD. RD.	.14
111)	19)	1.39 1.21 1.02	327°	57.75	" 37 36.97	" "	.23
112)	20)	1.33 1.15 0.95	319° 25'	57.72	38 37.97	" "	.29
113)	21)	1.39 1.19 0.99	314°	57.83	" 40 39.97	" "	.25

AREA XIII Cont. HI 1.44

114) 22)	138 1.17 0.96	311°	57.88	EL/W 2° EL. 42 41.97	contour pt	.27
115) 23)	1.20 1.02 0.84	313° 45'	57.52	" 36 35.97	cpt. South "crest" of "Ohio Rd".	.42
116) 24)	1.42 1.24 1.05	314° 15'	57.78	" 37 36.97	cpt. S. Edge of Old Rd. Rd. surface	.20
117) 25)	1.30 1.10 0.91	316°	57.71	39 38.97	C. pt. N. Edge of "Ohio" Rd.	.34
118) 26)	1.39 1.19 0.98	312° 20'	57.86	41 40.97	~ N. Edge of 'Old' Rd.	.25

Stopped

~~29)~~ 3-31-88 ⊼ over S 243 E 429 Tube 0° H.I. = 1.47m

4-14-88 * plot START

119 ~~27)~~	2.14 2.04	56.02 • 56.12	Base Top	S 243 E 419 " "	
120 ~~28)~~	1.73 1.59	56.43 • 56.57	Base Top	S 239 E 419 " "	
121 ~~29)~~	unable 0.99 0.86	57.17 • 57.30	Base Top	S 235 E 419 S 229 E 419 " "	
122 ~~30)~~	0.81 0.72	57.35 • 57.44	Base Top	S 227 E 419	
123 ~~31)~~	0.58 0.47	57.58 • 57.69	Base Top	S 223 E 419 " "	

EL. S 219 E 419

124 ~~32)~~	0.31 0.22	57.85 • 57.94	Base Top

3-24-88 sunny 60's AREA XIV Cecil's Area

⊼ S 235 E 457 (same stake Area XVI was shot from)

shoot to S 200 E 450 Top of Hub / same as Ground surface to establish hight of S235E457

HI = at S235E457

* ⊼ over S 200 E 450 H.I. = 1.48 to survey

tuck on N. side of Area XIII pin oak

from this should be able to extrapolate EL. of

S 200 E 425

3-24-88 TO ESTablish AREA XIII

** ⊼ over S200 E 450 HI = 1.48 59.356

Shoot to S 243 E 429

to establish EL AREA XIII contour pt. station

center 2.66 m to S 243 E429 Hub at G.S.

↑ 56.69 m above MSL

AREA XIV contour pts. Tube Level 0° plan view Area XIV

3-24 88

⊼ over S 200 E 450 Hub HI 1.48 m

aligned G. North

			EL/m above MSL	dist/M	
1)	4.25 / 4.0 / 3.75	166°	55.356	50	contour pt south of site at S. slope
2)	3.97 / 3.73 / 3.49	168°25	55.626	48	" "
3)	3.94 / 3.70 / 3.47	170°	55.656	47	" "
4)	3.89 / 3.67 / 3.45	164°	55.686	44	" "

3-24-88 OLW AK RD. AREA XIV cont.

			EL/m	Dist./m	
5)	3.75 3.53 3.31	171°	55.826	44	contour pt. south of site ~~middle of center of~~ crest of slope
6)	3.88 3.66 3.46	173°	55.696	42	c. pt west ~~crest~~ slope of hill
7)	3.39 3.18 2.97	169° 45'	56.176	42	c. pt, mid site south part of site
8)	3.35 3.14 2.94	166°	56.216	41	cpt East crest of hill
9)	3.69 3.48 3.27	163° 15'	55.876	42	c.pt E. slope of hill
10)	3.50 3.30 3.10	164° 30'	56.056	40	cpt. E slope of hill
11)	3.19 2.99 2.79	166°	56.366	40	cpt. crest of E. slope
12)	3.24 3.04 2.84	168° 40'	56.316	40	cpt. on flat of hill
13)	3.45 3.25 3.05	173°	56.108	40	cpt. west crest of w. slope
14)	3.73 3.53 3.32	174°	55.826	41	cpt on slope of west slope

AREA XIV

			EL./m above MSL	Dist./m	
15)	3.74 3.57 3.37	177° 17'	55.786	37	cpt along west slope.
16)	3.06 2.88 2.69	174°	56.476	37	cpt at west crest of slope
17)	2.94 2.76 2.59		• 56.596	Hub Base 35m.	S 235 E 455
18)	2.85 2.67 2.49	172°	• 56.686	Hub Top	"
					HI 1.48
19)	2.94 2.76 2.59	~169°	56.596	• Base 35m	S 235 E 457 ✳ Datum shot pt. For Area XVI
20)	2.88 2.70 2.52	~169°	• 56.656	Top	" "
21)	3.12 2.94 2.75	165° 35'	56.416	37	c. pt. E. crest of E. slope.
22)	3.38 3.20 3.02	164° 20'	56.156	36	cpt E. slope
23)	3.36 3.19 3.02	164°	56.166	34	c pt. " "
24)	2.90 2.74 2.57	167°	56.616	33	c pt E crest
25)	2.79 2.62 2.46	172°	56.736	33	cpt flat of hill

3-24-95 AREA ~~XIV~~ cont.

HI 1.48 cont.

			EL/m	Dist.	
26)	3.00 2.84 2.67	177° 30'	56.516	23	cpt west crest of slope
27)	3.39 3.22 3.05	179° 15'	56.136	34	cpt west slope of hill
28)	2.62 2.47 2.31	174 30'	56.886	31	S231 E 453 Base of Hub
29)	2.58 2.43 2.27	174°30'	• 56.926		" " Top of Hub
30)	2.425m		• 56.931		S229 E 453 Datum spike base
31)	2.31m		• 57.046		S227 E 455 → (NE corner Datum spike) of S229 E 455 (2x2)
32)	2.52		• 56.836		S229 E 451 → c. pt. + SE corner spike
33)	2.48		• 56.876		S227 E 451 cpt + NE corner of 2x2 S229 E 451 datum spike base
34)	2.38		• 56.976		cpt + SE corner spike (Datum) S227 E 453
35)	2.34		• 57.016		cpt + Datum spike NE corner S225 E 453 of (S227 E 453 2x2) 223 450
36)	2.24		• 57.116		SE corner spike of S225 E 453
37)	2.07		• 57.286		NE Datum spike S221 E 453 of (S223 E 453 2x2)
38)	2.10		~~• 57.256~~		SE corner spike Datum S 223 E 451

E W

	EL/m above MSL		Dist/m			
39)	2.91 2.77 2.64	186° 30'	56.586	27	cpt.	west crest of slope
40)	3.27 3.13 2.99	189° 30'	56.226	28	cpt.	west slope
41)	2.70 2.56 2.42	165°	56.796	28	cpt.	East crest of slope
42)	3.07 2.94 2.79	163°	56.416	28	cpt.	East slope of Hill
43)	3.04 2.91 2.79	159°	56.446	25	"	" " "
44)	2.35 2.23 2.12	163° 38'	57.126	23	cpt.	E. crest of Hill
45)	2.51 2.41 2.30	193°25'	56.946	21	cpt.	west crest of Hill
46)	2.64 2.53 2.42	196°	56.826	22	cpt.	west slope of Hill
Start 47)	2.39 2.31 2.22	204°40'	57.046	17	cpt.	west slope.
48)	2.00 1.93 1.86	197°	57.426	14	cpt.	west crest of hill
49)	1.83		57.526		Hub Base	Site edge (North) S 215 E 451
	1.74		57.616		Hub Top	

3-24-88
DLW

AREA XIV cont

			El.	Dist/m		
50)	2.47 2.38 2.28	155°	56.976	19	cpt.	crest of East slope
51)	3.06 2.96 2.86	152° 30'	56.396	20	cpt.	slope of East slope
52)	3.24 3.16 3.07	140° 30'	56.196	17	"	" "
53)	2.47 2.39 2.32	147°	56.966	15	cpt.	crest of E. slope
54)	2.18 2.12 2.06	159° 32'	57.236	12	"	along top "flat" of hill.
55)	1.69 1.63 1.58	177° 20'	57.726	11	"	" " "
56)	1.61 1.55 1.50	194°	57.806	11	"	" " "
57)	1.82 1.75 1.68	212°	57.606	14	cpt.	at west slope crest
58)	2.32 2.25 2.17	212° 45'	57.106	15	cpt.	along west slope near north ravine extent.
59)	1.80 1.72 1.65	220°	57.636	15	cpt.	north extent of Ravine at crest.
60)	2.48 2.40 2.31	216° 20'	56.956	17	c. pt	down slope (west) of Ravine

	EL/m above MSL	Dist-/m			
	2.46				
61)	2.38	218°	56.976	17	c. pt. of Ravine slope irregularity
	2.29				
(2)	1.90	223°	57.536	17	cpt. North extent of Ravine
	1.82				
	1.73				
	2.01				
63)	1.92	230°	57.436	18	" " " "
	1.83				
	2.10				
64)	2.05	150° 10′	57.306	10	contour pt ~ East edge of site near E. slope
	2.00				
(5)	2.62				" " " "
	2.56	133° 45′	56.796	11	
	2.51				
~	3.22				
66)	3.10	127° 37′	56.256	13	cpt. down E. slope
	3.09				Base of Slope in Ravine
	1.80				
(7)	1.76	168° 30′	57.596	8	cpt. along top of hill north of Area XIV
	1.72				
	1.51				
68)	1.47	197°	57.886	9	" " "
	1.42				
	1.59				
69)	1.53	218° 3[illegible]	57.826	11	" " "
	1.48				North of Ravine
	1.65				
70)	1.58	235° 32′	57.776	14	" " "
	1.51				" "
	1.36				
	1.31				
71)	1.25	244° 30′	58.046	11	cpt. N. of Ravine
	1.46				
72)	1.42	229°	57.936	8	contour pt.
	1.38				
	1.65				
73)	1.63	178	57.726	5	
	1.60				" "

			EL./m above MSL	Dist.	
74)	2.06 2.03 1.99	130° 24'	57.326	7	cpt.
75)	2.26 2.21 2.16	112° 30'	57.146	10	N. extent/crest of E. Ravine
76)	2.15 2.10 2.04	101° 30'	57.256	11	" " "
77)	2.19 2.12 2.04	98° 15'	57.236	15	" " "
78)	1.90 1.83 1.76	85° 30'	57.526	14	contour pt N. of East Ravine
79)	1.73 1.69 1.66	79°	57.166	7	c.pt.
X 80)	1.61	?	57.746	4.0 m	c.pt.
81)	1.30 1.27 1.24	265°	58.086	6	c.pt.
82)	1.32 1.26 1.21	267°	58.096	11	c.pt.
83)	1.39 1.29 1.19	264° 15'	58.066	20	South edge of machine disturbance
84)	1.28 1.21 1.13	272° 30'	58.146	15	" " "

3-24-88
0220 AREA XIV cont.

			EL.	Dist	
85)	1.29 1.24 1.18	283° 35'	58.116	11	S. edge of Machine disturbance
86)	1.27 1.24 1.21	304°	58.116	6	" " "
87)	1.32 1.30 1.29	352°	58,056	3	" " "
88)	1.47 1.44 1.41	55°	57.916	6	" " "
89)	1.70 1.65 1.60	74° 30'	57.706	10	" " "
90)	2.08 1.95 1.87	92° 45'	57.406	16	" " "
91)	2.07 1.97 1.87	95°	57.386	20	cpt. N. of East Ravine + S. edge of Machine Disturbance
92)	2.50 2.39 2.28	104° 30'	56.966	22	cpt. east side of N. extent of E. Ravine
93)	3.85 3.65 3.42	139°	55.706	43	~ S. extent (along S. slope) of small jutting knowl East of Area XIV
94)	3.01 2.81 2.61	136° 25'	56.546	40	S. crest / top of S. extent
95)	2.70 2.51 2.32	131°	56.846	38	along crest of knowl.
96)	2.16 1.98 1.81	122° 30'	57.376	35	" " "

3-24-88 cont.

			El./Mabove msl.	Dist/m	
97)	2.19 2.03 1.88	111° 30'	57.326	31	cpt. along crest of jutting knowl. E. of area XIV
98)	2.07 1.92 1.77	102°	57.436	30	" " " cpt. North extent of crest ~ 5 m south of Machine disturbance
99)	2.57 2.45 2.32	107°	56.906	25	cpt. west slope of Eastern Knowl.
100)	3.22 3.09 2.96	116° 33'	56.266	26	" " "
101)	3.20 3.04 2.89	128° 30'	56.316	31	" " "
102)	3.63 3.46 3.28	136°	55.896	35	" " "
103)	3.81 3.61 3.41	139° 20'	55.746	40	cpt. down SSW slope of Knowl.
104)	2.23 2.08 1.93	85°	57.276	30	cpt. N. extent of machine rut/disturbance n. of Eastern Knowl.
105)	1.72 1.61 1.49	80°	57.746	23	" " "
106)	1.57 1.48 1.39	69° 32'	57.876	18	" " "

			EL in above MSL	Dist. in	
107)	1.46 1.40 1.33	51°	57.956	13	contour pt. * N. edge of machine nut
108)	1.28 1.24 1.19	17°	58.116	9	" " "
109)	1.19 1.13 1.06	356°	58.226	13	" " "
110)	1.55 1.51 1.47	57° 20'	57.846	8	contour pt. in machine nut
111)	1.79 1.70 1.62	80° 30'	57.656	17	" " "
112)	2.28 2.14 2.00	89°	57.216	28	" " "
113)	2.01 1.81 1.62	74°	57.546	39	contour pts to connect AREA XV + XIV
114)	1.91 1.75 1.58	69°	57.606	33	" " "
115)	1.73 1.59 1.45	61°35'	57.766	28	" " "
116)	1.48 1.37 1.26	48°	57.986	22	" " "
117)	1.10 1.00 0.90	15°	58.356	20	" " "

* start here
strip off
sheet

cont.

			EL.	Dist./m	
118)	1.25 1.12 1.00	35°	58.236	25	contour pts to connect AREA XV & XIV
119)	1.41 1.26 1.10	45°	58.096	31	" " "
120)	1.61 1.43 1.25	53°	57.926	36	" " "
121)	1.74 1.55 1.35	60°	57.806	39	" " "
122)	2.05 1.83 1.61	65°	57.526	44	" " "
123)	1.87 1.66 1.45	57°30'	57.696	42	" "
124)	1.62 1.43 1.24	53°	57.926	38	" "

Topog. Summary see Graph Pg.

$\bar{x}$ over S243E429 → 56.69 m above MSL.

HI = 1.47

	Hill	El./m above MSL			AREA XIII	A
1)	1.66 1.63 1.60	56.53			S247E425	
2)	1.54 1.47 — H.I. 1.405	54.0	cor. dist. bist 13.22 2.69	11°30° below Mer	~"S255E425"	Flat of "Terrace"
3)	2.10 1.90 1.71	56.26			"crest Top" of slope	"B"
4)	3.31 3.14 2.97	55.02			mid slope "B"	
5)	2.06 1.80 1.54	57.08			crest of slope C	
6)	3.81 3.55 3.27	54.61			midway on slope C	
					Area XII	"D"
7)	1.52	56.64			S285 E353	
8)	2.87	55.29			S296 E353	
9)	1.82 1.67 1.53	56.49			Flat area just S. of site AREA XIV	
10)	2.53 2.37 2.22	55.79			S245 E459	

S 307 E 460 Base EL. 57.626 m

AREA XVI

Topo.

X over stk. S307 E 460

4-1-88 Cloudy DLW JTB

H.I. = 1.52 m

Tube 0° Horiz.

		Dist./M	EL./M		
1)	* 1.55 m		57.59	Base	S 307 E 457 *Datum Hub
2)	1.45 m		57.69	Top	" "
3)	1.43 1.33 1.23	191°31'	20.	57.81	cpt. perimeter pt. west edge of site crest of hill next to NE corner of bridge.
4)	1.41 1.34 1.26	195°39'	15.	57.80	cpt. west perimiter along crest of hill
5)	1.60 1.55 1.49	205°	11	57.59	" "
6)	1.54 1.50 1.46	219°40'	8	57.64	" "
7)	1.67 1.64 1.61	246° 22'	6	57.50	" "
8)	1.66 1.64 1.62	285°25'	4	57.50	cpt N. perimiter crest of hill
9)	1.72 1.70 1.68	325	4	57.44	" "
10)	1.83 1.80 1.77	343°28'	6	57.34	" "
11)	1.94 1.90 1.85	351°45'	9	57.24	" "
12)	1.90 1.84 1.78	7°05'	12	57.30	" "
13	2.08 2.00 1.92	8°22'	16	57.14	" "

contour interval Area XVI is 30cm

58.90
58.60
58.30
58.00
57.70
57.40
57.10
56.80
56.50
56.20
55.90
55.60
55.30
55.00

AREA ~~XVI~~ cont

4-1-88

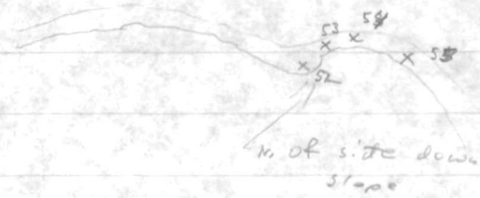
			Dist/m	EL, /m above MSL	
14)	2.15 2.06 1.97	18° 29'	18	57.08	cpt along crest of hill N. of site
15)	2.51 2.41 2.30	34°	21	56.73	" "
16)	2.58 2.45 2.31	40°	27	56.69	" "
17)	2.55 2.40 2.25	47° 11'	30	56.74	" "
18)	2.36 2.21 2.05	56° 30'	31	56.93	cpt west edge of hill crest
19)	2.40 2.24 2.08	63° 20'	32	56.90	" "
20)	2.17 1.98 1.79	77°	38	57.16	* ~4m south of actual head Head of ravine S. extent. crest.
21)	1.74 1.62 1.50	195° 28'	24	57.52	starting back on west side of site along slope of hill. (Alot near road.)
22)	2.95 2.84 2.72	202° 11'	23	56.30	farther south slope
23)	3.78 3.67 3.55	206° 20'	23	55.47	" " cpt. on slope over farther down
24)	2.49 2.40 2.31	202°	18	56.74	cpt on slope below crest

4-1-87

			Dist.	EL / M above MSL	
25)	2.45 2.38 2.31	209°	14	56.76	Cpt. on slope of hill w. of site XVI
				56.34	
26)	2.85 2.80 2.75	233° 45'	10		" "
27)	2.92 2.88 2.84	267°	8	56.26	" "
28)	3.17 3.13 3.09	305°	8	56.01	" "
29)	3.01 2.98 2.94	324° 20'	7	56.16	Cpt. N. of site on slope
30)	2.77 2.72 2.67	338°	10	56.42	" "
31)	3.12 3.05 2.99	352° 40'	13	56.09	" "
32)	2.70 2.62 2.54	2°	16	56.52	" "
33)	2.93 2.83 2.73	7° 15'	20	56.31	" "
34)	3.27 3.15 3.03	24°	24	55.99	" "
35)	3.22 3.09 2.97	31° 29'	25	56.05	" "
36)	3.01 2.87 2.72	37° 30'	29	56.27	NE of site on Hill slope

AREA XVI cont.

			Dist.	EL.	
37)	3.48 3.32 3.17	31°29'	31	55.82	c.pt Ridge extention south slope from main crest
38)	3.30 3.14 2.98	44°	32	56.00	contact slope of Hill East of Area XVI.
39)	3.25 3.09 2.92	50° 20'	33	56.05	" "
40)	3.28 3.11 2.94	58°	34	56.03	" "
41)	3.31 3.12 2.95	60° 30'	36	56.02	c.pt in ravine (base)
42)	3.59 3.51 3.42	209°	17	55.63	c.pt west side of site N. of Rd. "bridge" far down slope of hill.
43)	3.47 3.40 3.33	215°	14	55.74	c.pt west of site far down slope
44)	3.45 3.40 3.35	246°	10	55.74	" "
45)	3.57 3.52 3.47	270	10	55.62	" "
46)	3.63 3.59 3.54	303° 15'	9	55.55	North west of site far down slope
47)	3.58 3.53 3.48	330° 30'	10	55.61	c.pt. N of site on slope

			Dist/m	EL./m	
48)	3.94 3.87 3,80	346°	14	55.27	cpt. on North slope of Hill
49)	3.35 3.26 3.17	359°	18	55.88	" "
50)	3.71 3,59 3,48	12° 29'	23	55.55	" " "
51)	3.66 3.54 3,42	22° 31'	24	55.60	" "
52)	3,29 3,16 3,04	30° 31'	25	55.98	 N. of site down slope
53)	3,99 3.85 3,69	28°15'	30	55.29	cpt. West down slope of hill irregularity
54)	4.16 3.99 3.82	31°20'	34	55.15	N. side of hill protrusion down slope
55)	3.83 3.67 3,50	37°38'	33	55.47	" East side "
56)	3.96 3.79 3,62	43°32	34	55.35	East side of site on slope
57)	4.14 3.97 3.80	52° 29'	34	55.17	cpt. at Ravine base
58)	3.84 3.66 3.48	56° 30'	36	55.48	" "
59)	2.82 2.64 2.45	68°45'	37	56.50	" " End of Ravine base S. extent

			Dist/m	EL/m	
60)	1.13 0.95 0.77	203° 31'	36	58.19	N. Edge of dirt Road west end of bridge
61)	1.04 0.89 0.74	197°	30	58.25	" " Mid Bridge
62)	0.95 0.84 0.72	183°	23	58.30	East end of Bridge North edge of Rd.
63)	0.92 0.82 0.73	159°	19	58.32	N. edge of Dirt Rd
64)	0.96 0.86 0.76	131°	20	58.28	" "
65)	1.11 0.98 0.84	109°	27	58.16	" "
66)	1.24 1.08 0.92	100°	32	58.22	" "
67)	1.37 1.18 1.00	94° 40'	37	57.96	" "
68)	1.46 1.24 1.02	89°	44	57.90	" "
69)	1.31? 1.06 0.81	89°	50	58.08	South edge of Dirt Rd
70)	1.28 1.07 0.85	96°	43	58.07	" "
71)	1.21 1.03 0.86	104° 40'	35	58.11	" "

Area XVI cont

4-1-88
DLW 00B

			Dist./m	EL.	
72)	1.12 0.98 0.84	117° 15'	28	58.16	S. edge of Dirt Rd.
73)	0.98 0.86 0.75	136° 14'	23	58.28	" "
74)	1.00 0.89 0.77	162°	23	58.37	" "
75)	1.07 0.93 0.80	178° 40'	27	58.21	" "
76)	1.29 1.12 0.95	195°	34	58.02	" "
77)	1.29 1.09 0.89	199°	40	58.05	End of Bridge
78)	1.33 1.22 1.12	190°	21	57.92	N. Road Grade + NE edge of Bridge Pole W E N S Road
79)	1.10 1.00 0.91	180° 40'	19	58.14	N of Road on grade Base
80)	1.06 0.98 0.90	158° 30'	16	58.16	" " "
81)	1.02 0.94 0.86	141°	16	58.20	" " "
82)	1.10 1.01 0.92	122°	18	58.13	" " "
83)	1.19 1.08 0.96	108°	23	58.06	" " " ± pin S314 E482
84	1.38 1.24 1.09	99°	29	57.90	N. Edge of Rd. (Grade Base)

			Dist. /m	EL./m	
85)	1.49 1.33 1.17	95°	32	57.81	N. Road grade base
86)	1.59 1.41 1.22	91° 30'	37	57.73	" " "
87)	1.68 1.65 1.62	20° 30'	6	57.49	contour pt. N. side of site.
88)	1.86 1.81 1.76	17° 30'	10	57.33	" " "
89)	2.02 1.95 1.88	15° 30'	14	57.19	" " "
90)	2.22 2.14 2.05	27° 30'	17	57.00	" " "
91)	2.27 2.18 2.09	37° 40'	18	56.96	" " "
92)	1.90 1.84 1.78	58° 25'	12	57.30	" "
93)	1.68 1.64 1.60	56° 30'	8	57.50	" "
94)	2.39 2.25 2.12	47°	27	56.89	" "
95)	2.25 2.15 2.05	47°	20	56.99	" "
96)	2.17 2.08 1.99	50° 20'	18	57.06	" "

			Dist / m	El. / m	
97)	1.91 1.85 1.79	57°	12	57.29	Contour pt. N. side of site
98)	1.66 1.61 1.56	80°	10	57.53	" "
99)	1.87 1.79 1.71	71°	16	57.35	" "
100)	2.12 2.01 1.90	73°	22	57.13	" "
101)	2.32 2.18 2.03	69°	29	56.96	" "
102)	2.23 2.10 1.96	56°	27	57.04	" "
103)	2.31 2.13 1.95	77°	36	57.01	" "
104)	1.62 1.59 1.56	57°25'	6	57.55	" "
105)	1.58 1.54 1.49	87°30'	9	57.60	" "
106)	1.65 1.58 1.51	87°45'	14	57.56	" "
107)	1.79 1.69 1.59	89°	20	57.45	" "
108)	1.90 1.78 1.65	88°30'	25	57.36	" "
109)	1.97 1.82 1.66	89°	31	57.32	" "

AREA XVI cont.

			Dist/M.	El./M. above MSL	
110)	1.72 1.58 1.44	94°30'	28	57.56	contour pt N. side of site
111)	1.63 1.52 1.41	97°31'	22	57.62	pin S310 E482
112)	1.45 1.35 1.25	107°41'	20	57.79	contour pt. N. side of site
113)	1.70 1.61 1.52	97°	18	57.54	" "
114)	1.56 1.49 1.42	102°	14	57.65	" "
115)	1.40 1.33 1.26	117°29'	14	57.816	" "
116)	1.26 1.19 1.12	132°	14	57.95	" "
117)	1.41 1.35 1.30	115°	11	57.79	" "
118)	1.42 1.39 1.35	116°	7	57.75	" "
119)	1.21 1.15 1.09	145°20'	12	57.99	" "
120)	1.10 1.02 0.94	162°	16	58.12	" "
121)	1.23 1.15 1.08	175°30'	15	57.99	" "
122)	1.32 1.24 1.15	183°	17	57.90	" "

			Dist./m	El./m	
123)	1.24 1.19 1.13	177° 29'	11	57.95	Contour pt. North Side of site
124)	1.34 1.31 1.27	170° 40'	7	57.83	" "
125)	1.45 1.41 1.37	203° 7'	8	57.73	" "
126)	1.28 1.06 0.84	102°	44	58.08	cpt. just south of Disturbed Ls. side of site
127)	1.09 0.86 0.64	109° 30'	45	58.28	cpt s. side of site
128)	1.03 0.78 0.53	111°	50	58.36	" "
129)	0.93 0.65 0.38	109° 30'	55	58.49	cpt. No Edge of newly Disturbed area
130)	0.77 0.49 0.21	116° 30'	56	58.65	" "
131)	0.86 0.62 0.38	116° 30'	48	58.52	1/2 m N. of Ls Willow OAK Tree
132	0.97 0.76 0.54	116°	43	58.38	cpt. south side of site
133)	1.07 0.89 0.70	115°	37	58.25	" "
134)	1.08 0.92 0.76	120° 20'	32	58.22	1 m in front (N.) of Sycamore Tree
135)	0.93 0.74 0.55	123 20'	38	58.40	cpt. south side of site

Rut/Tread Dist Extent 2 near Anac's 282

			dist./m	EL./m	
136)	0.85 0.63 0.41	126° 15'	44	58.51	cpt. N. edge of Dist.
137)	0.68 0.44 0.20	135°	48	58.70	cpt N. Edge of Disturbance
138)	0.75 0.53 0.31	131°	44	58.61	cpt south side of site
139)	0.79 0.61 0.43	130° 15'	36	58.53	cpt + East end of wood Fence section
140)	0.83 0.69 0.55	132° 25'	28	58.45	cpt. 8 1m N. of Holly Tree
141)	0.92 0.79 0.66	141°	26	58.35	cpt. south side of site
142)	0.81 0.66 0.51	140°	30	58.48	" " "
143)	0.71 0.53 0.36	140°	35	58.61	cpt. 8 midpoint of fence
144)	0.72 0.52 0.32	137° 22'	40	58.62	cpt. S. of fence
145)	0.79 0.58 0.38	147° 40'	41	58.56	" " "
146)	0.80 0.63 0.45	147°	35	58.51	" " + west end of wooden Fence
147)	0.85 0.70 0.56	146°	29	58.44	contour pt. south side of site
148)	0.94 0.82 0.70	146° 22'	24	58.32	" " "
149)	1.00 0.87 0.75	159	25	58.27	" " "

AR 2n XVI

			Dist.	EL. /M Above M.S.L.	
150)	0.94 0.81 0.69	156°29'	25	58.33	c. pt s. side of site
151)	0.92 0.78 0.64	152°	28	58.36	" " N. edge of dist. area/machine ruts
152)	1.27 1.04 0.87	160° 14'	34	58.10	" " "
153)	1.24 1.08 0.92	171°30'	32	58.06	" " "

4-5-88 Stk. Elevations AREA XVI cont. HI = 1.53 m above G.S. T over S 307 E 460

		EL/M		
154)	1.52	57.63	Base of Stk	S 307 - E 468
155)	1.44	• 57.71	Top	
156)	1.66	57.49	Base	S 307 E 476
157)	1.53	• 57.62	Top	" "
158)	1.70	57.45	Base	S 307 E 480
159)	1.615	• 57.54	Top	" "
160)	1.80	57.35	Base	S 307 E 488
161)	1.68	• 57.47	Top	" "
162)	1.50	57.65	Base	S 310 E 488
163)	1.44	• 57.71	Top	" "

		EL./m		
164)	1.54	57.61	Base	S 310 E 480
165)	1.49	• 57.66	Top	" "
166)	1.40	57.75	Base	S 310 E 468
167)	1.32	• 57.83	Top	" "
168)	1.33	• 57.82	G.S at spk.	S 312 E 468 SW corner of 1x2. (SE of 20)
169)	1.30	57.85	Base of Stk	S 314 E 468
170)	1.20	• 57.95	Top "	" "
171)	1.28	• 57.87	GS at Spk.	S 314 E 470
172)	1.17	• 57.98	GS. at spk.	S 316 E 468
173)	1.07	58.08	Base of stk	S 318 E 468
174)	0.96	• 58.19	Top "	"
175)	1.07	• 58.08	GS at spk.	S 318 E 470
176)	1.21	• 57.94	GS at spk.	S 316 E 472
177)	1.17	57.98	Base of Stk	S 314 E 480
178)	1.07	• 58.08	Top "	" "
179)	1.105	• 58.05	GS. at spk.	S 314 E 482
180)	1.30	• 57.85	GS at spk	S 312 E 484
181)	1.14	58.01	Base	S. 310 E 496
182)	1.11	• 58.04	Top	" "

4-5-88

AREA XVI Hub EL. cont.

		EL /12 above M.St	
183)	1.64)	57.51	Base of Stk. S307 E496
184)	1.53)	• 57.62	Top of stk " "
185)	1.04	58.11	Base S322 E496
186)	0.96	• 58.19	Top. " "
187)	0.86	58.29	Base S326 E496
188)	0.76	• 58.39	Top " "
189)	0.70	58.45	Base S 330 E 496
190)	0.62	• 58.53	Top " "
⊼ station datum * 191)	0.61	58.54	Base S334 E496
192)	0.52	• 58.63	Top " "
193)	0.55	58.60	Base S334 E 500
194)	0.49	• 58.66	Top " "
195)	0.82	58.33	Base S326 E 500
196)	0.77	• 58.38	Top " "
197)	0.73	58.42	Base S326 E 504
198)	0.62	• 58.53	Top

AREA XVI

Stk. ELEV cont.

		EL/m		
199)	0.77	58.38	Base	S326 E508
200)	0.67	• 58.48	Top	" "
201)	0.68	58.47	Base	S 326 E510 SE datum of 2x2
202)	0.58	• 58.57	Top	" "
203)	0.55 ?	58.60	Base	S334 E504
204)	0.50	• 58.65	Top	" "
205)	0.63 ✓	58.52	Base	S334 E492
206)	0.55 ✓	• 58.60	Top	S " "
x 224 207)	ERROR? where? 0.67 WRONG	Rechecked #224 ok ~~58.48~~	Base	S334 E488
208)	0.62 WRONG	• ~~58.53~~	Top	" "
209)	0.77 79	58.38	Base	S 326 E 488
210)	0.72	• 58.43	Top	" "
211)	0.96	58.19	Base	S 322 E488
212)	0.86	• 58.29	Top	" "
213)	0.84	• 58.31	GS. at Stk. SW corner of S 324 E482 2x2	
214)	0.72	58.43	Base	S330 E484
215)	0.63	• 58.52	Top	" "

		EL/m			
216)	0.80	58.35	Base	S326	E 480
		• 58.41	Top	"	"
217)	0.74				
218)	0.73	58.42	Base	S 334	E476
			Top	"	"
219)	0.66	• 58.49			
220)	0.83	58.32	Base	S330	E 472
221)	0.72	• 58.43	Top	"	"
222)	0.94	58.21	Base	S333	E 468
223)	0.81	• 58.34	Top	"	"
repeat 224)	0.59 ✓	58.56	Base	S334	E 488
225)	0.55 ✓	• 58.60	Top	"	"
226)	0.50 ✓	58.65	Base	S340	E 488
227)	0.43 ✓	• 58.72	Top	"	"
228)	0.54	• 58.61	G.S. at spk.	S340	E 484

Site S. Roundary

STP Locations AREA XVI

			Dist./m	EL./m above M.S.L.		
229)	0.99 0.87 0.75	139°30'	9	58.28	STP	S. side of site
230)	0.84 0.69 0.545	143° 30'	29.5	58.46	"	"
231)	0.97 0.86 0.74	152°	23.	58.29	"	"

		STP's cont.	Dist	EL./m		
232)	1.12 1.05 0.97	165° 45'	15	58.10	STP	N. side of site
233)	1.270 1.21 1.155	176° 50'	11.5	57.94	"	"
224)	1.40 1.33 1.25	117°	15	57.82	"	"
225)	1.64 1.55 1.47	102°	17	57.60	"	"
226)	1.45 1.35 1.25	107°55'	20	57.80	"	"
227)		90°	.08 m		"	"

AREA XVI-A

4-5-88

HI = 1.54 π over S 354 E 445 spk = 58.175 Above MSL

1) 2.02 • 57.575 G.S. at S 354 E 426 spk

2) 2.31 • 57.405 G.S. at S 354 E 424 spk

3) 2.69 • 57.025 G.S. S 354 E 414 spk

4) 2.91 • 56.805 G.S. S 354 E 412 spk.

5) 1.635 • 58.08 π EL. tie in shot from EL? at π S354 E445

to S ~~468 E 318~~ 318 468 58.08 = G.S.

4-6-88

AREA XIV spk - datum EL. HI = 1.50 T over S 200 E 450

1)	3.42	• 55.95	Ground Surface G.S. spk at S 243 E 458 NW corner of (1X2 - S245 E459)
2)	2.50	• 56.87	G.S. spk at S 231 E 455
3)	2.85.5	• 56.52	" " at S229 E449
4)	2.57	• 56.80	" " " S229 E451 Repeat ✓
5)	2.46	• 56.91	" " " S229E453
6)	2.38	• 56.99	" " " S228 E456
7)	2.355	• 57.02	" " S227 E455
8)	2.43	• 56.94	" " S227 E453
9)	2.39	• 56.98	" " S225E453
10)	2.345	• 57.03 WRONG Rain?	" " S223 E451 Repeat ✓
11)	2.12	• 57.25	" " S221 E453
12)	2.015	• 57.36	" " S219 E453
13)	2.07	• 57.30	" " S219 E451
14)	1.95	• 57.42	" " S217 E451

4-11-88 AREA XVI

Datum EL's/M

A over S 307 E 460
HI 1.53

1) -A 0.50 • 58.65 GS. spk S 338 E 482 NW corner of 2x2

2) -A 0.68 • 58.47 GS. spk S 328 E 482 NW corner

3) -A 0.79 • 58.36 GS. spk. S 326 E 478 SE corner

4) -A 0.80 • 58.35 GS. spk at S 324 E 504 SE corner

4-13-88

π over stk S 334 E 496 EL = 58.54

XVI contours cont. H.I. = 1.56 m

			Dist/m	EL.	
228)	1.69 1.58 1.47	50°	22	58.52	cpt edge of major disturbance Est of site
229)	1.98 1.86 1.74	39° 28'	24	58.24	" "
230)	2.13 1.99 1.85	25° 25'	28	58.11	S. edge of Pt Rd and edge of disturbance.
231)	2.32 2.19 2.06	8° 30'	26	57.91	cpt. N. Edge of Pt. Rd.
232)	2.35 2.20 2.05	16°	30	57.90	" "
233)	2.32 2.15 1.98	20° 40'	34	57.95	" "

4-13-88 XV

			Dist/m.	EL./m above MSL.	
234)	2.33 2.13 1.93	24°35'	40	57.97	c pt. N. edge of Rd.
235)	2.60 2.38 2.16	18°15'	44	57.72	c pt. North of Rd.
236)	2.62 2.40 2.18	14°50'	44	57.70	" "
237)	2.88 2.70 2.52	9° 45'	36	57.40	" "
238	3.11 2.95 2.79	5°	32	57.15	" "
239)	2.98 2.83 2.68	344°30'	30	57.27	" "
240)	3.32 3.13 2.94	345°15'	38	56.97	" " " of Ravine
241)	3.30 3.09 2.88	346°	42	57.01	" "
242)	3.61 2.84 2.67	333°30'	34	57.26	" "
243)	3.42 3.23 3.04	358°40'	38	56.87	S. extent of Ravine (see sketch)
244)	3.38 3.17 2.95	348°25'	43	56.93	west of Ravine

4-26-88
DLW & MW

AREA XIII

HI 1.48

	π over EL.	S 243 E 429	⊏ Hub	Spike S/E
1) 1.15	57.02	G.S.	S229	E427
2) 0.90	57.27	"	S 229	E423
3) 1.125	57.04	"	S 233	E 429
4) 0.96	57.21		S235	E427
5) 1.01	57.16		S237	E427
6) 1.02	57.15		S235	E423
7) 1.29	56.88		S237	E421
8) 1.20	56.97		S 235	E421
9) 1.01	57.16		S237	E425
10) 1.18	56.99		S237	E429
11) 1.34	56.83		S237	E431
12) 1.25	56.92		S239	E429
13) 1.16	57.01		S239	E427
14) 1.30	56.87		S239	E423
15) 1.365	56.80		S241	E429
16) 1.58	56.59		S 245	E 423
17)				

~~XVI~~

4-13-88

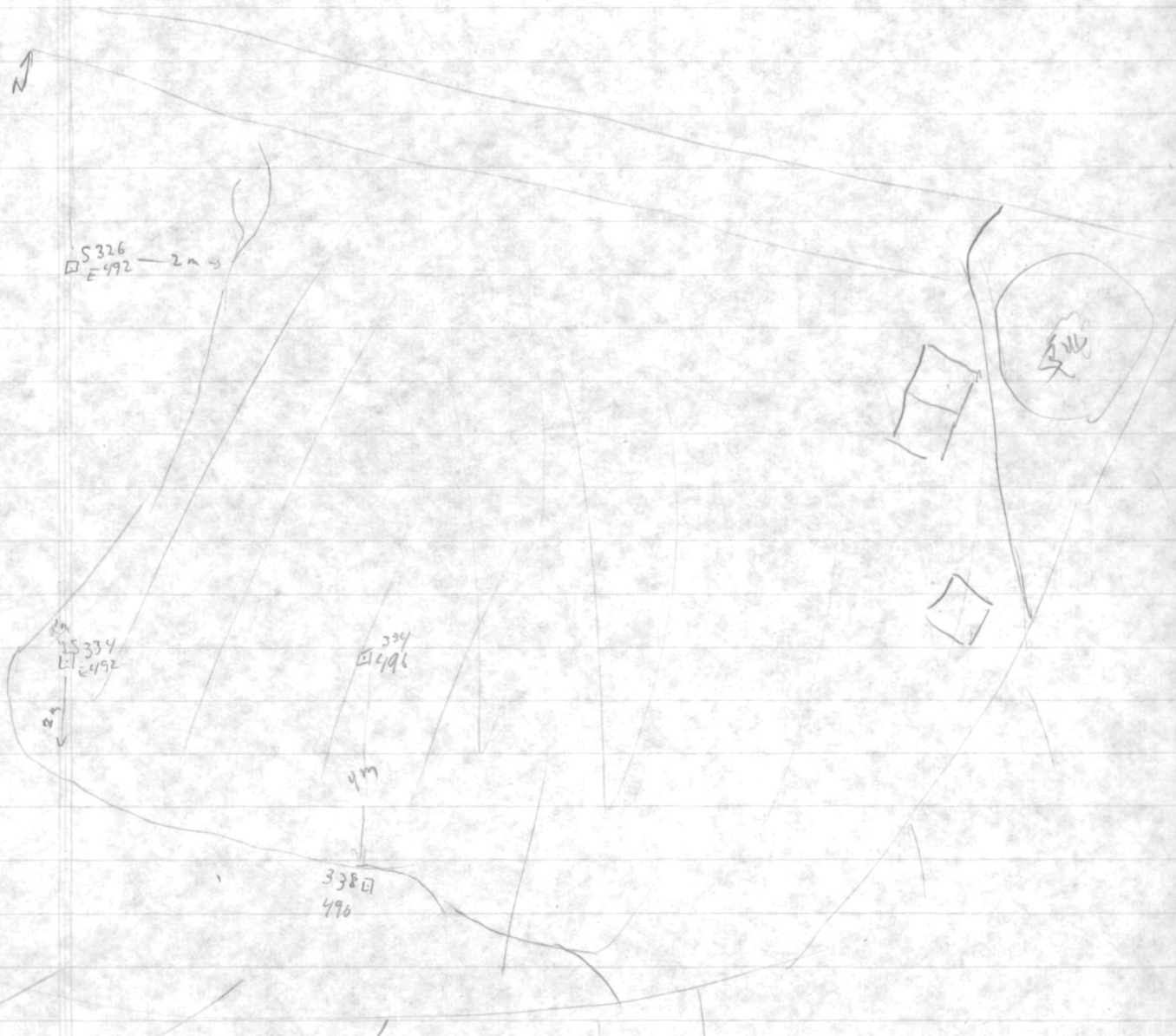
245) 4.00
3.78 351
3.56

midway on W slope of ravine

246) 3.83
3.69 48
35

midway on slope LE side ravine

Machine RUT AREA S. of Pt. Road AREA XVI



4-14-88

$\angle \pi$ over S322 E 488

247) $\frac{1.605}{1.245}$ 318°25' dist. 36 cherry tree North of Dt. Rd.

248) $\frac{1.87}{1.26}$ 337°15

249) 349°20' 29.0 m "

250) $\frac{2.81}{2.54}$ 1° 27 "

251 $\frac{3.05}{2.75}$ 15° 35' 30

4-26-88 AREA XIV π over S200 E 450 HI = 6.50

2.31 S223 E 451 57.25/or 5703

2.10 S221 E 453

2.37 S225 E 453 57.01