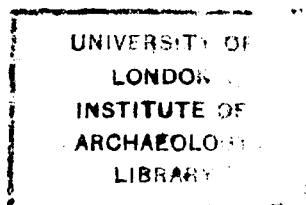


AN EXAMINATION OF MIDDLE BRONZE AGE II TYPOLOGY AND  
SEQUENCE DATING IN PALESTINE, WITH PARTICULAR  
REFERENCE TO THE TOMBS OF JERICHO AND FARA (SOUTH).

VOLUME TWO

by

David Price Williams



Submitted to the Faculty of Arts in fulfillment of the  
requirements for the degree of DOCTOR OF PHILOSOPHY at  
the Institute of Archaeology, University of London, 1975



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TABLE 1

## Quantitative Analysis

	Cu	Pb	Sn	Ag	Fe	Sb	Ni	Co	As	Zn	Bi
1.	99.0	0.07	0.02	0.02	0.75	n.d.	0.2	0.04	2.0	n.d.	n.d.
2.	93.0	0.14	tr	0.02	0.67	n.d.	0.06	n.d.	0.4	n.d.	n.d.
3.	93.0	0.32	0.46	0.02	1.20	0.05	0.04	.005	3.3	tr	n.d.
4.	97.5	0.41	tr	0.02	0.17	n.d.	0.03	n.d.	2.3	n.d.	0.05
5.	92.8	0.30	5.7	0.16	0.16	n.d.	0.15	n.d.	0.3	n.d.	n.d.
6.	85.4	0.25	8.8	0.05	0.20	n.d.	0.15	n.d.	3.5	0.03	n.d.
7.	91.0	1.70	4.6	0.03	0.20	n.d.	0.08	n.d.	tr	n.d.	n.d.
8.	96.5	0.02	tr	0.01	0.07	n.d.	0.04	n.d.	1.3	n.d.	n.d.
9.	98.8	0.07	0.02	0.09	0.64	n.d.	n.d.	n.d.	tr	n.d.	n.d.
10.	93.0	0.50	6.2	0.06	0.30	n.d.	0.08	n.d.	1.0	n.d.	n.d.
11.	84.8	0.24	4.3	0.01	0.16	n.d.	0.07	.003	0.2	11.2	n.d.
12.	85.4	0.33	7.0	0.03	0.14	n.d.	0.05	.007	0.7	tr	n.d.
13.	93.5	n.d.	0.4	0.01	1.05	n.d.	0.01	n.d.	1.7	tr	n.d.
14.	85.6	0.41	7.6	0.01	0.17	n.d.	0.10	.006	0.3	tr	n.d.
15.	90.3	0.72	8.6	0.02	0.10	n.d.	0.15	.005	0.1	tr	n.d.
16.	92.6	0.02	0.3	0.02	1.50	n.d.	0.07	.005	2.4	0.02	n.d.
17.	95.4	0.19	0.3	0.03	0.85	0.03	0.03	.003	2.1	0.01	n.d.

## Semi-quantitative

	Cu	Pb	Sn	As
18.	75	0.05	2.3	0.1
19.	71	0.08	7.6	0.2
20.	61	0.4	5.6	0.3
21.	50	0.9	2.6	0.1
22.	75	1.1	7.0	0.1
23.	81	0.3	5.7	0.2

n.d. = not detected

tr. = Present below 0.01%

**FIGURES**

	I	II	III	IV	V	VI	VII
I		6	5	4	3	2	1
II	6		6	5	4	3	2
III	5	6		6	5	4	3
IV	4	5	6		6	5	4
V	3	4	5	6		6	5
VI	2	3	4	5	6		6
VII	1	2	3	4	5	6	

A

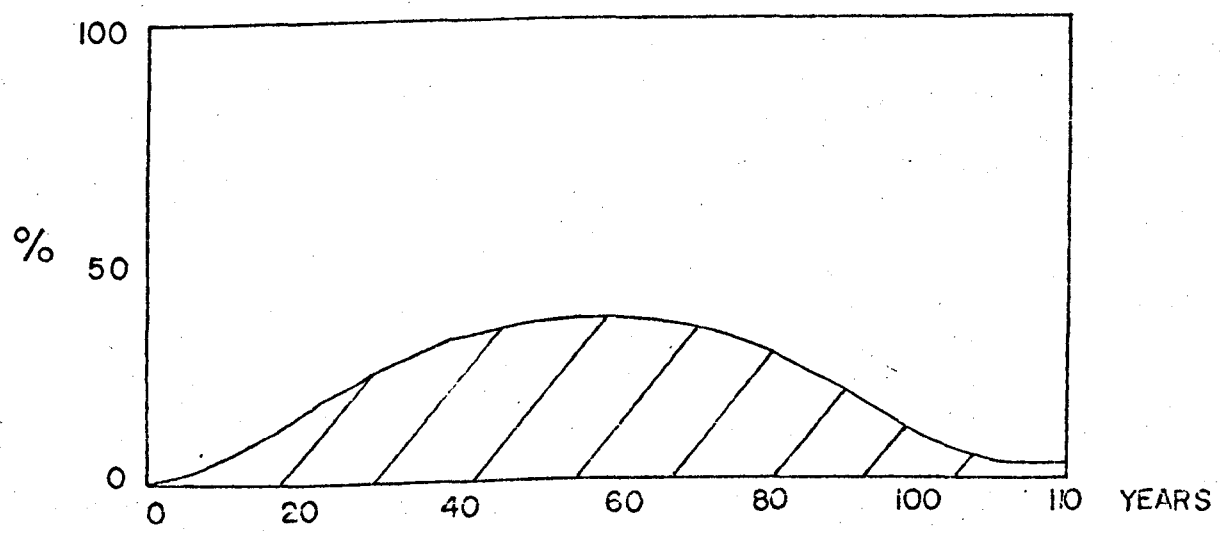


FIG. 1 B



Trait No.	Object	Trait No.	Object
1	Bowls A1	31	Lamps A-D
2	Bowls A2	32	Lamps E/F
3	Bowls A3	33	Lamps G-J
4	Bowls B1	34	Storage Jars
5	Bowls B2	35	Alabastra A1
6	Bowls B3	36	Alabastra A2
7	Bowls B5	37	Alabastra A4/5
8	Bowls B6	38	Alabastra B/C
9	Bowls B7	39	Alabastra D1/4
10	Bowls C1	40	Alabastra D3
11	Bowls D1-3	41	Alabastra E
12	Bowls D4	42	Faience A
13	Bowls F1	43	Toggle pins A/B
14	Bowls F2/3	44	Toggle pins C-E
15	Bowls F4/7	45	Toggle pins F/G
16	Bowls G	46	Combs
17	Bowls H	47	Wooden Bowls
18	Ped. vases A	48	Wooden tables
19	Ped. vases B	49	Wooden stool/bed
20	Ped. vases C	50	Dagger
21	Piriform Ala/b/2b	51	Scarabs
22	Piriform Bla	52	Baskets
23	Piriform Cla/2a/E1a <sup>E2a</sup>	53	Bone inlay (edging)
24	Piriform Fla/2a	54	Bone inlay (centre)
25	Piri. Flb/2b/E1b/2b	55	Beads
26	Piri. Fld/2d/E1d/2d	56	Bone buttons/whorls
27	Piriform Gla/2a	57	Bowls J
28	Cylindrical A	58	Piriform H
29	Cylindrical B	59	Ostrich Eggs
30	Dippers	60	Knives

FIG.2

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

```

P23F 1 0 1 0 0 1 0 0 0 0 1 1 1 0 0 0 0 0 1 0 0 0 0 0 1 1 1 0 0 0 1 1 0 1 1 0 0 1 0 0 0 0 0 0 0 0 1 1 1 1 0 0 1 1 0 1 1 1 0 0 0 0
B35F 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 1 0 0 1 0 0 0 1 1 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
D22F 1 0 1 1 0 0 1 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 0 1 0 1 1 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1
P17  0 0 1 0 0 1 0 0 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 1 1 0 1 0 1 1 0 1 0 1 0 1 0 1 0 0 0 1 0 1 0 0 0 0 0 1 1 0 1 1 0 0 1 0 0
J3   1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 1 0 1 1 0 0 0 0 0 1 0 0 0
H18F 1 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 1 1 0 0 1 0 0 0 0 0 0 1 1 1 1 0 0 1 1 1 1 0 1 1 0 1 1 0 0 0 0 0
P21  0 1 1 0 0 0 0 0 0 0 0 1 1 0 1 0 0 1 1 1 0 0 0 0 0 0 0 0 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 0 0 1 0
G1F  0 0 1 0 0 0 0 1 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
B3F  0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0
J14F 0 1 0 0 1 0 0 0 1 0 0 1 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 1 1 0 1 1 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 0
H6F  1 1 0 0 0 1 0 0 0 0 0 1 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1 1 0 0 1 0 0 1 0 1 1 0 0 1 0 0 1 0 1 1 0 1 0 0 1 1 0 0 0 0 0 0 0 0
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B482r 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0
J54F  0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 0 0 0 0 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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B50EF 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 1 0 0 0 1 0 0 0 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 1 0 1 0 1 0 1 1 0 0
D13  0 0 1 1 1 0 0 0 0 0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
G73F  0 1 1 0 0 0 1 1 0 0 1 1 1 0 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

```

FIG. 3

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.
1.	1246	851	1889	551	1969	1591	1015	772	1704	2029	1882	2325	576	690	1300	1637	1215	2164
2.	1246	556	1051	370	1049	946	658	460	1088	1141	1099	1246	286	426	802	976	774	1220
3.	851	556	706	383	757	667	498	341	789	762	793	864	241	338	563	673	568	877
4.	1889	1051	706	433	1628	1305	839	679	1485	1724	1544	1899	472	558	1136	1399	1051	1763
5.	551	370	383	433	518	370	274	194	477	510	492	590	192	210	327	456	366	521
6.	1969	1049	757	1628	518	1475	939	668	1572	1924	1829	2178	540	598	1227	1442	1054	2033
7.	1591	946	667	1305	370	1475	870	596	1449	1532	1506	1708	422	547	1111	1228	933	1741
8.	1015	658	498	839	274	939	870	403	938	963	1026	1058	226	362	718	781	655	1138
9.	772	460	341	679	194	668	596	403	663	706	683	774	177	253	515	593	467	800
10.	1704	1088	789	1485	477	1572	1449	938	663	1668	1615	1791	468	574	1296	1432	1071	1868
11.	2029	1141	762	1724	510	1924	1532	963	706	1668	1824	2177	531	619	1285	1523	1129	2026
12.	1882	1099	793	1544	492	1829	1506	1026	683	1615	1824	2035	452	614	1249	1380	1097	2017
13.	2325	1246	864	1899	590	2178	1708	1058	774	1791	2177	2035	644	719	1382	1664	1234	2288
14.	576	286	241	472	192	540	422	226	177	468	531	452	644	191	365	473	274	562
15.	690	426	338	558	210	596	547	362	253	574	619	614	719	191	440	512	410	675
16.	1300	802	563	1136	327	1227	1111	718	515	1296	1285	1249	1382	365	440	1070	793	1449
17.	1637	976	673	1399	456	1442	1228	781	593	1432	1523	1380	1664	473	512	1070	916	1675
18.	1215	774	568	1051	366	1054	933	655	467	1071	1129	1097	1234	274	410	793	916	1201
19.	2164	1220	877	1763	521	2033	1741	1138	800	1868	2026	2017	2288	562	675	1449	1675	1201



Strain = 0.015004

FIG. 5

9

3

15  
16

14  
10  
6  
12  
4  
19  
11

13  
7

17

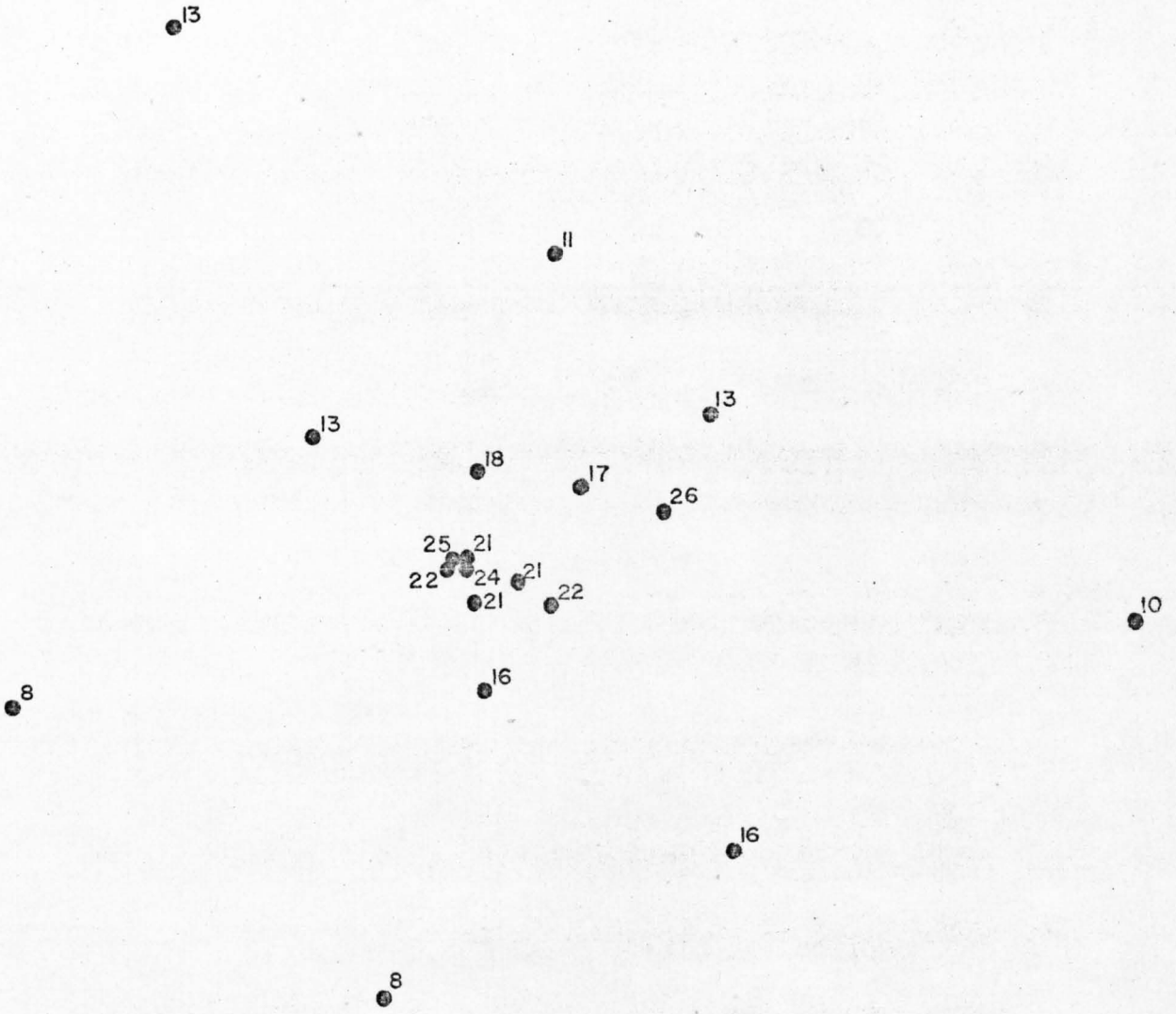
18  
2

8

5

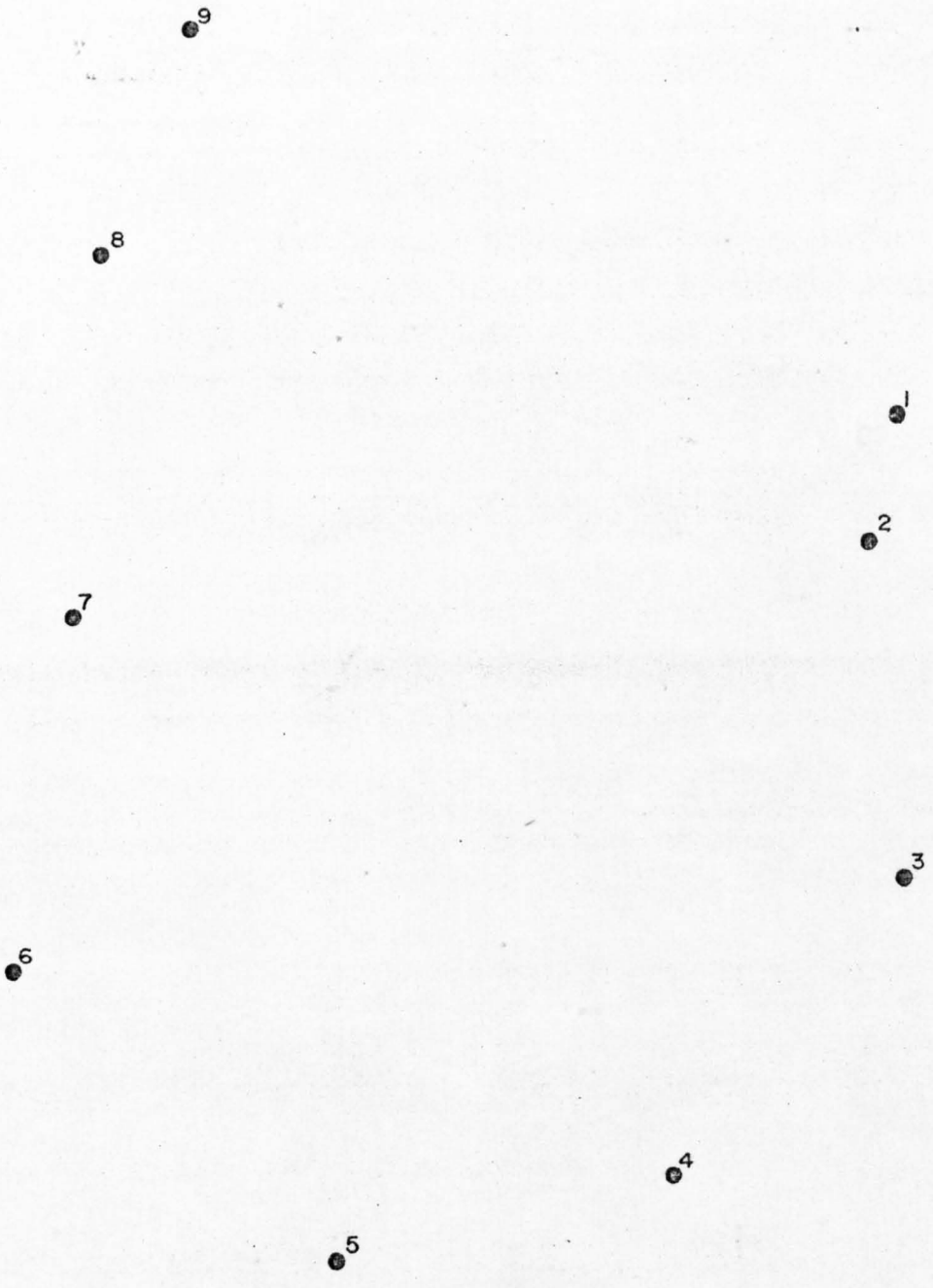
Strain = 0.042427

FIG.6



Strain = 0.015004

FIG. 7



Strain = 0.000000

FIG. 8

9

8

1

2

3

7

6

5

4

Strain = 0.097164

FIG.9



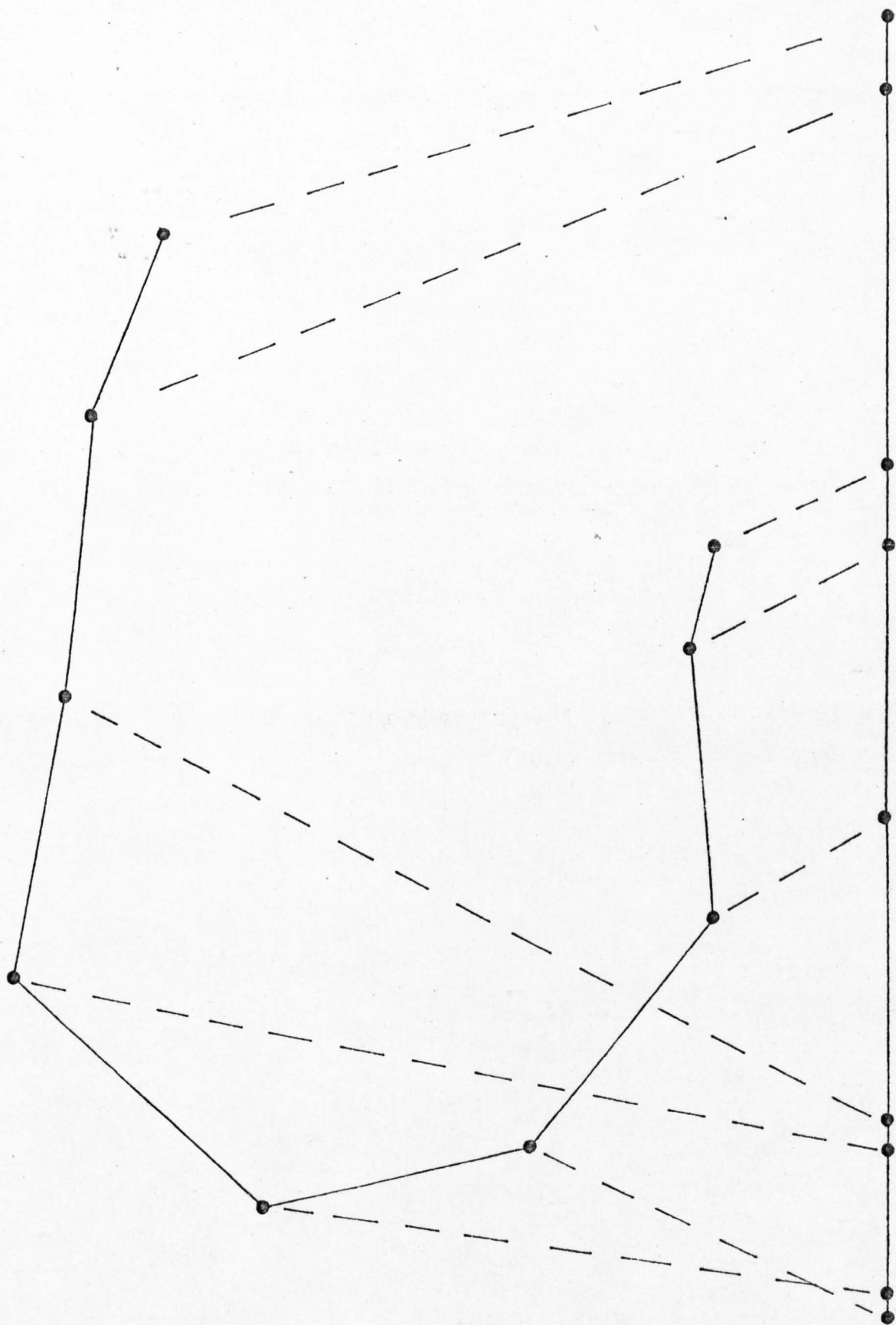
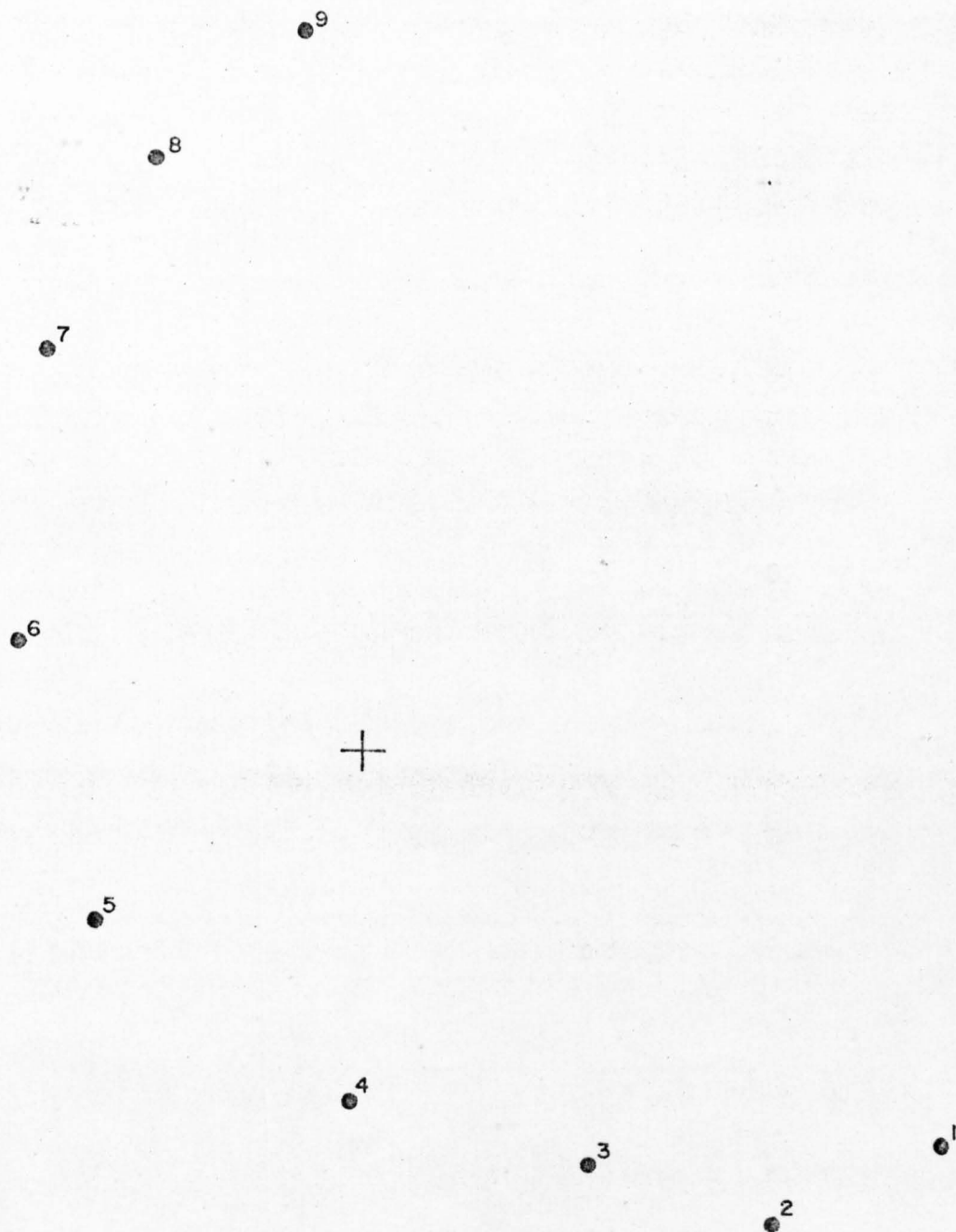


FIG.10



Strain = 0.000000

FIG.11

9

8

7

6

5

4

3

2

1

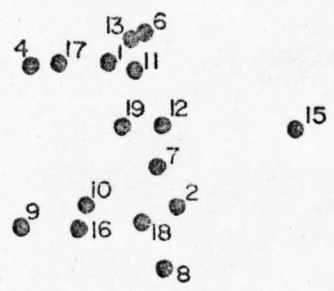
Strain = 0.000000

FIG.12

5

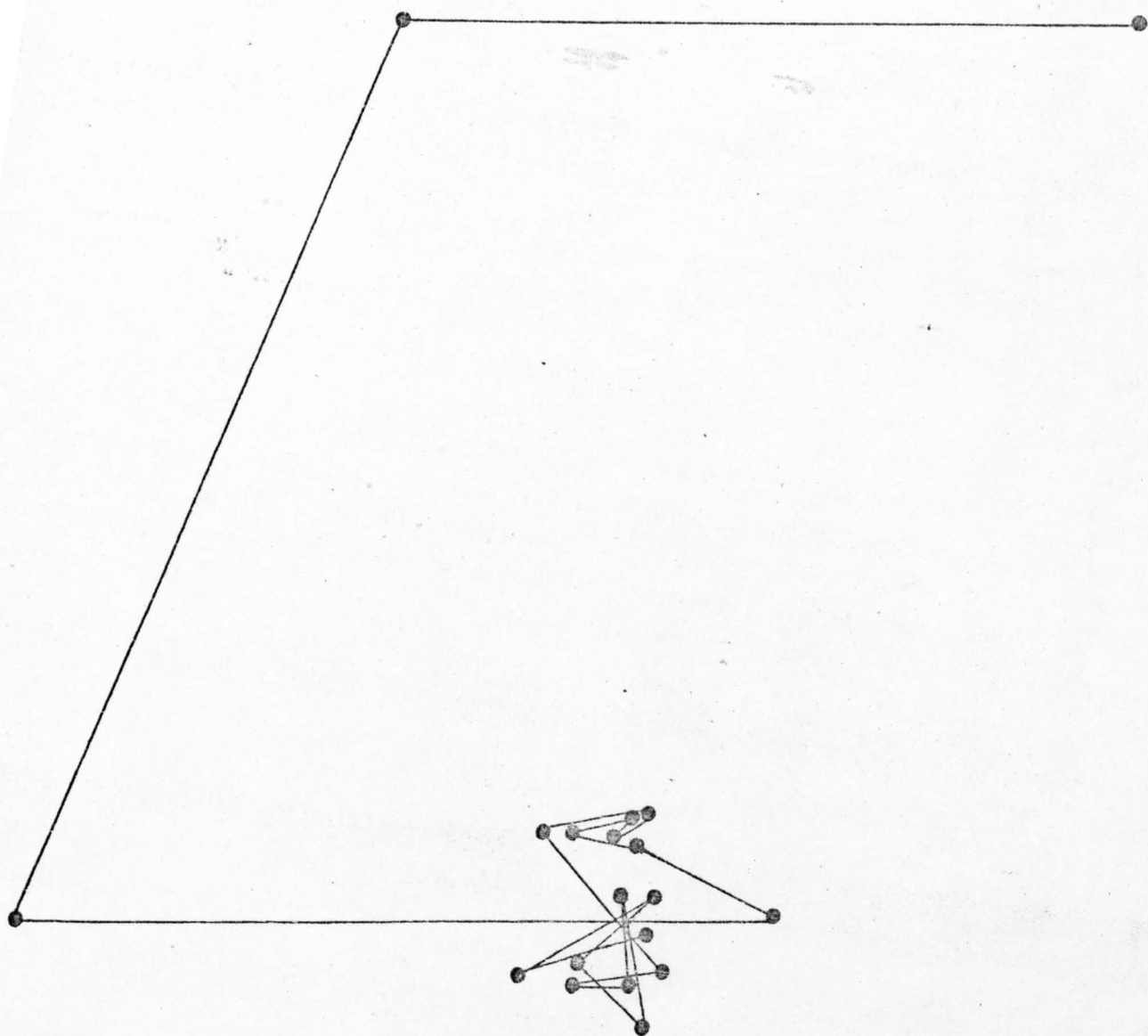
14

3



Strain = 0.009832

FIG.13



Strain = 009832

FIG.14

5

4

3

15

11

9

7

17

13

1

6

4

2

16

18

19

8

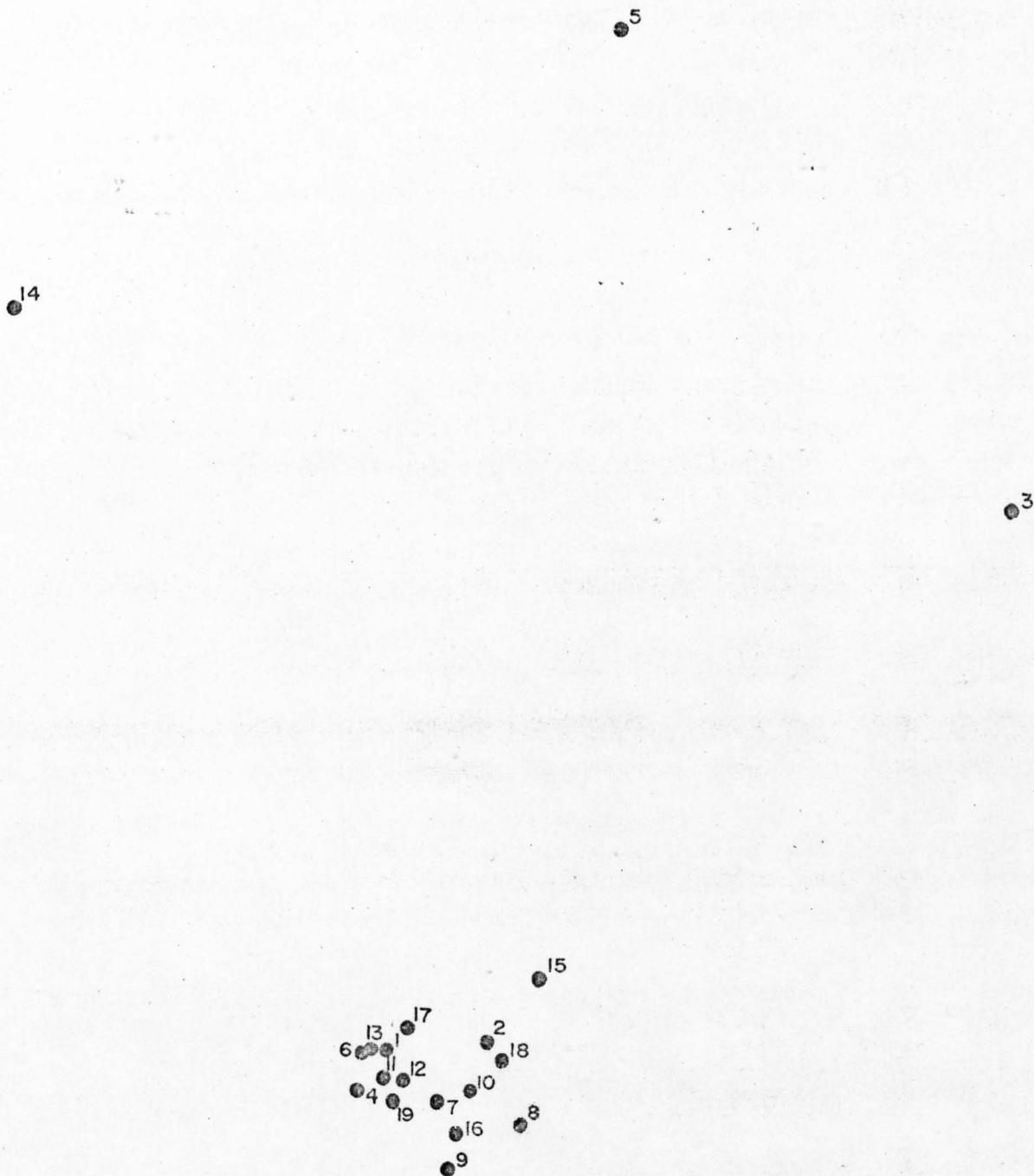
10

12

Strain = 0.013740

FIG.15





Strain = 0.004880

FIG.16

△h

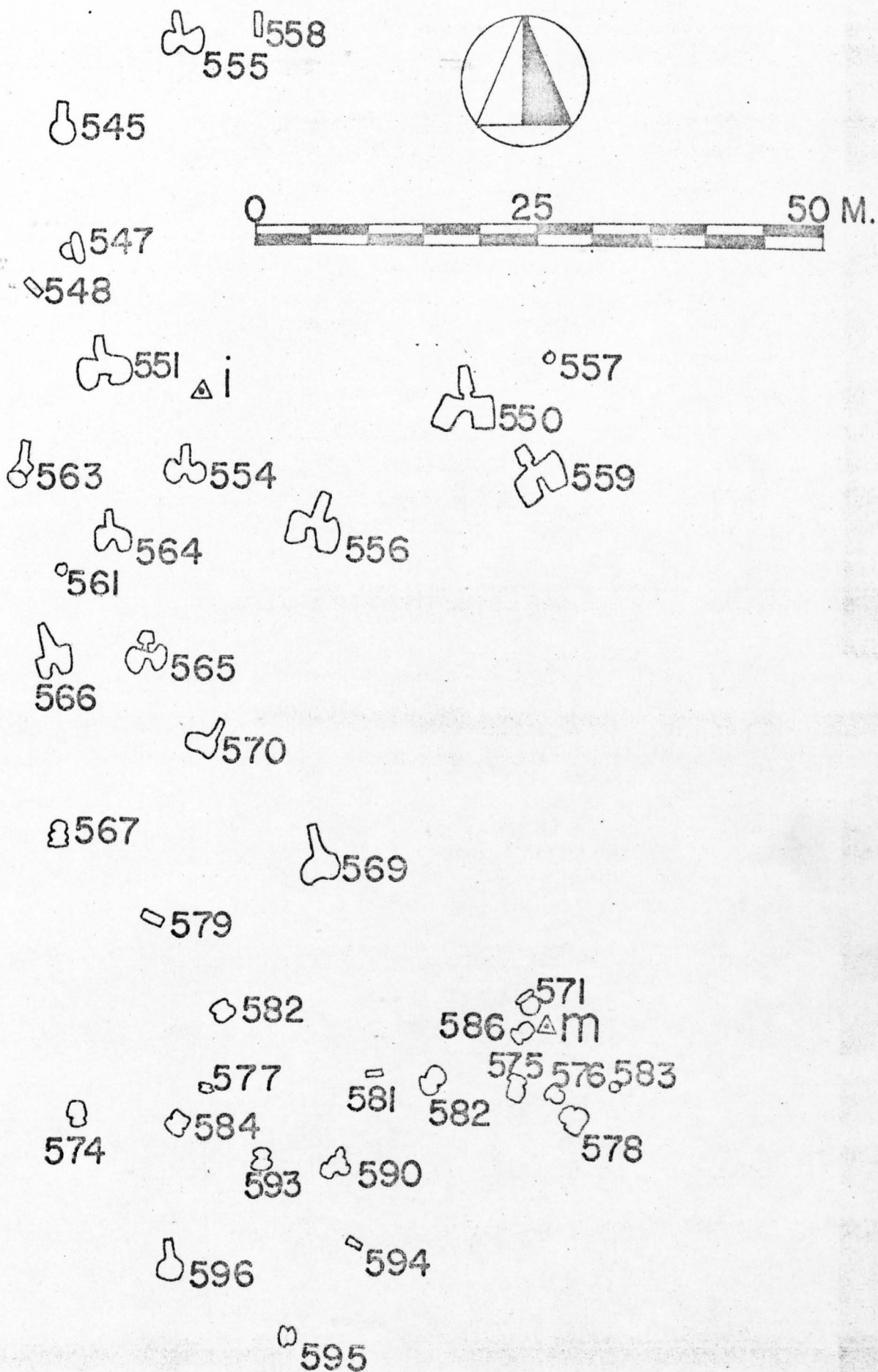
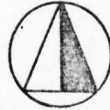
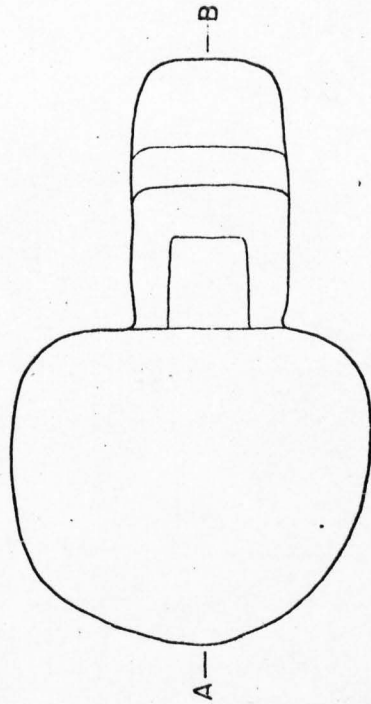


FIG.17



F545  
Plan



Section

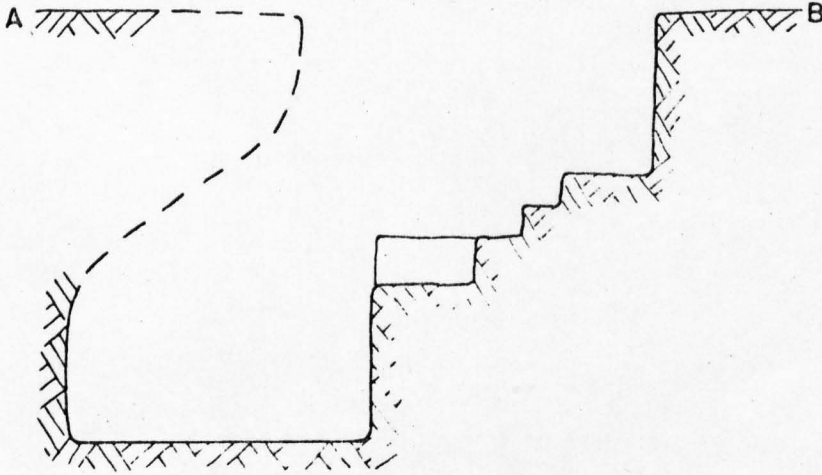
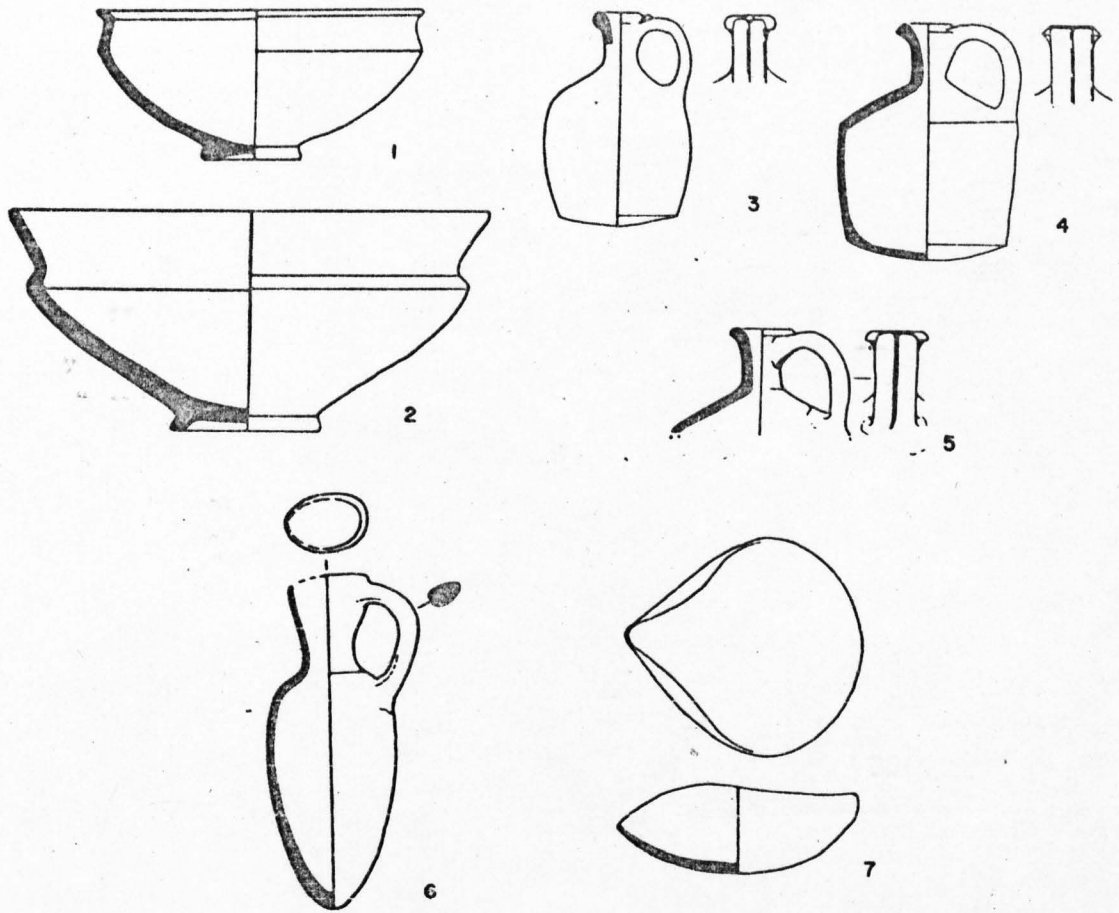
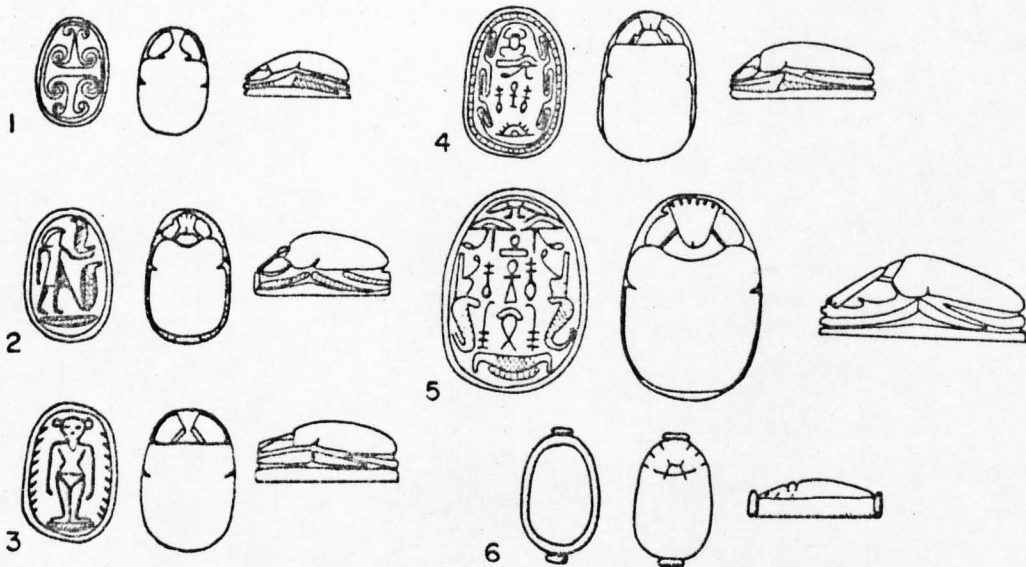


FIG.18

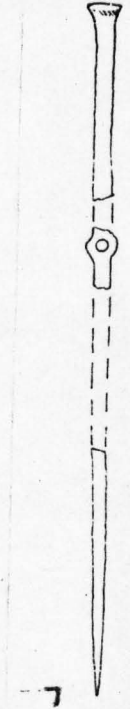


1/4

FIG.19A



1/1



1/2

FIG.19B

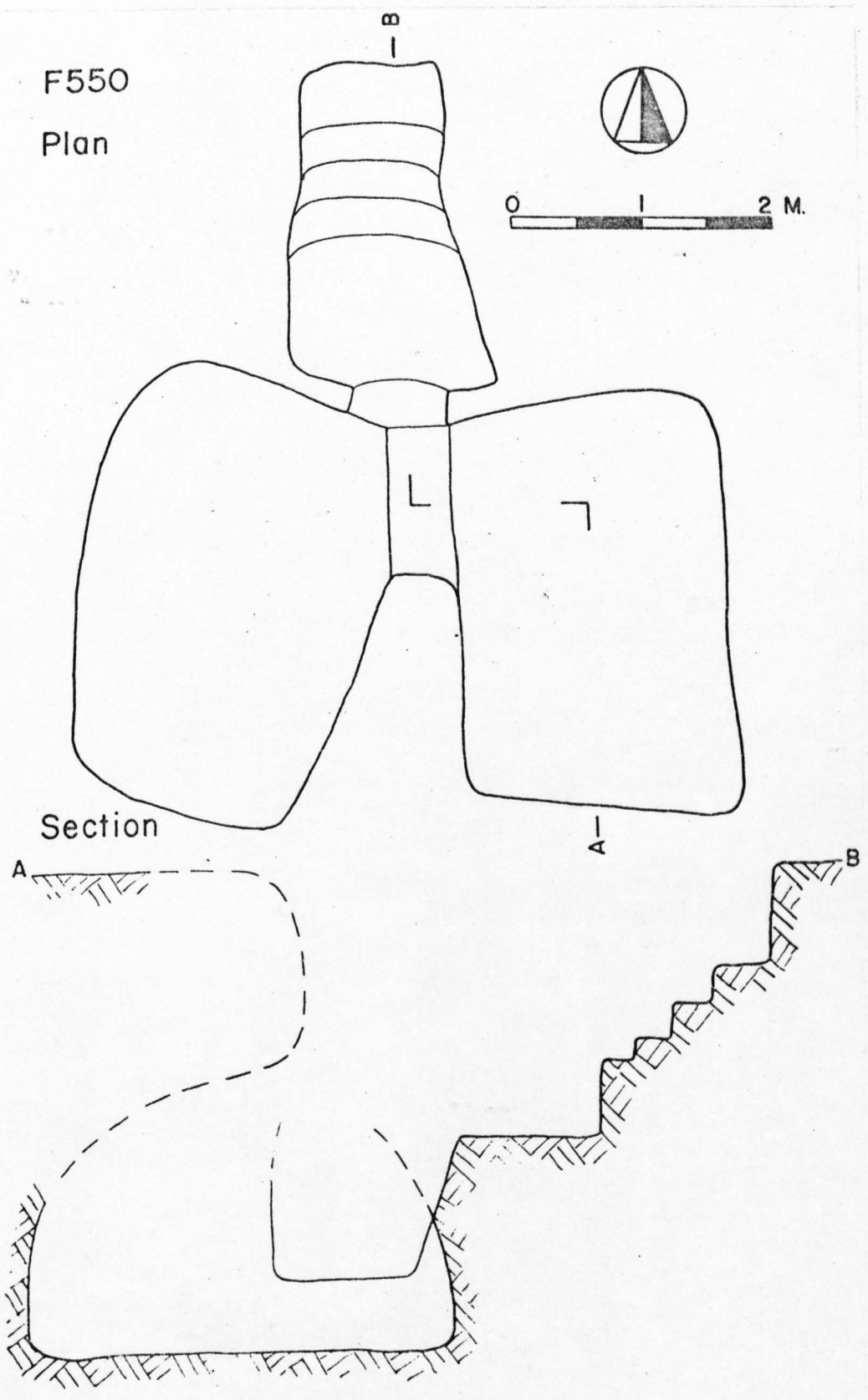
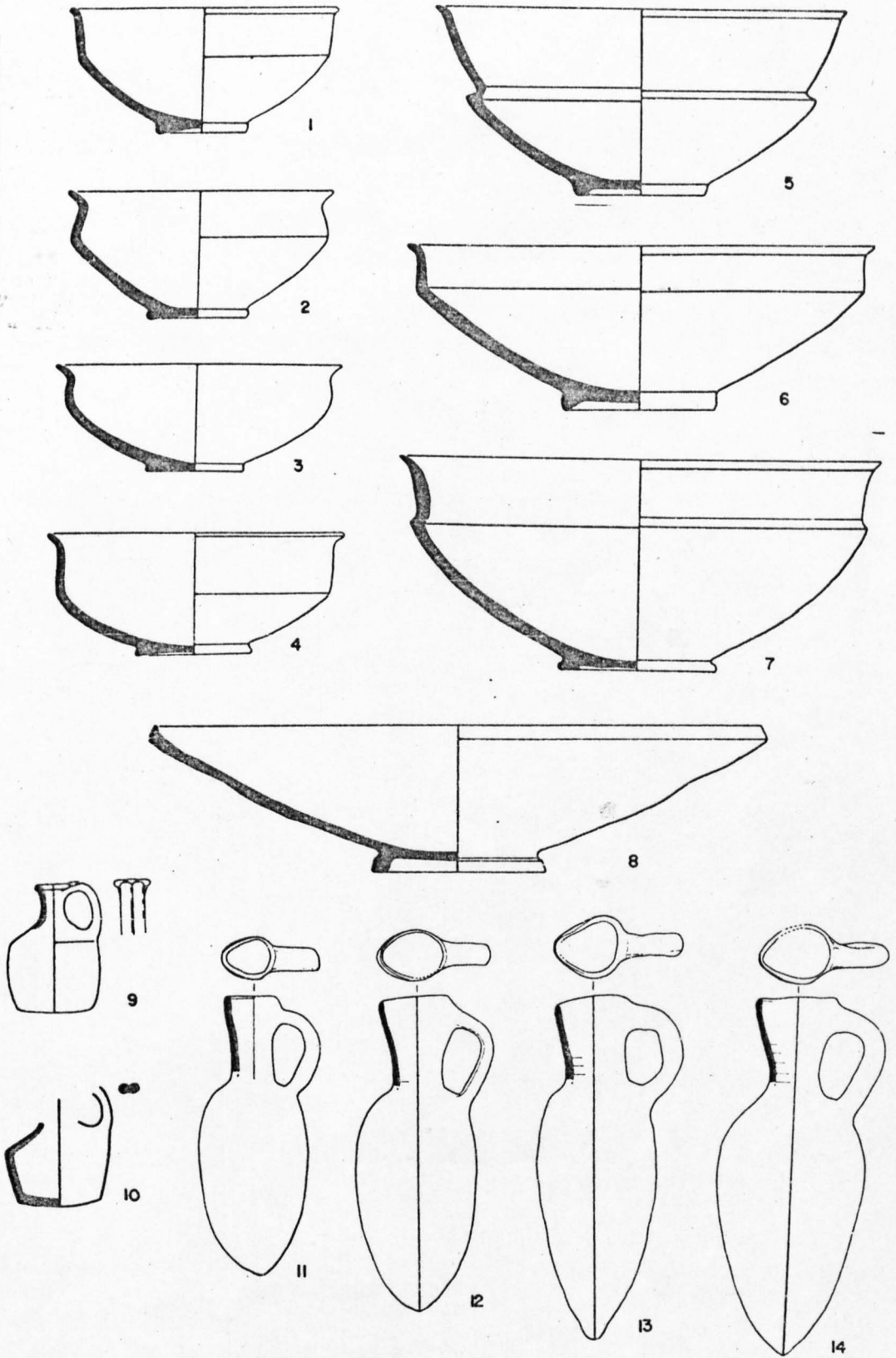


FIG. 20



1/4

FIG. 21

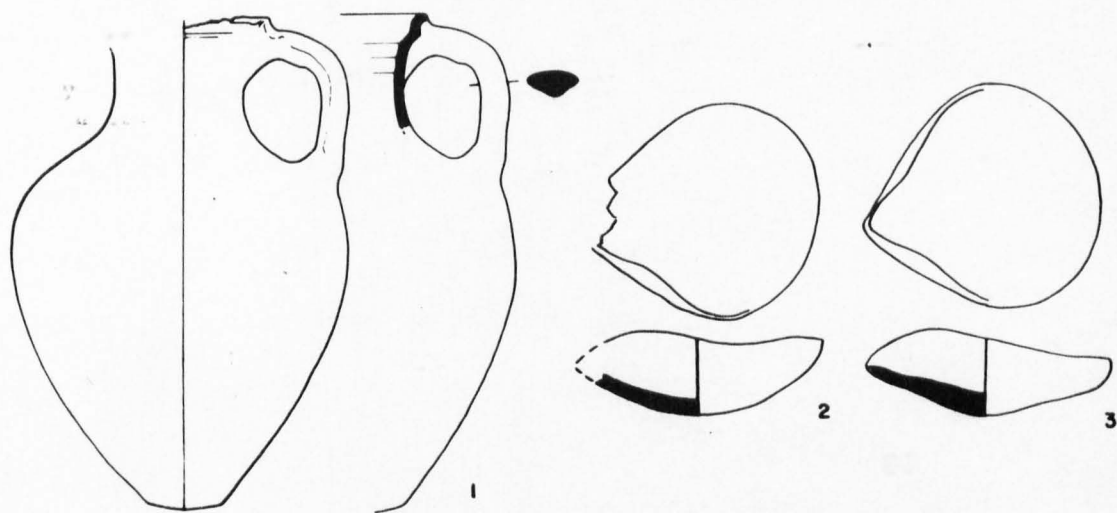
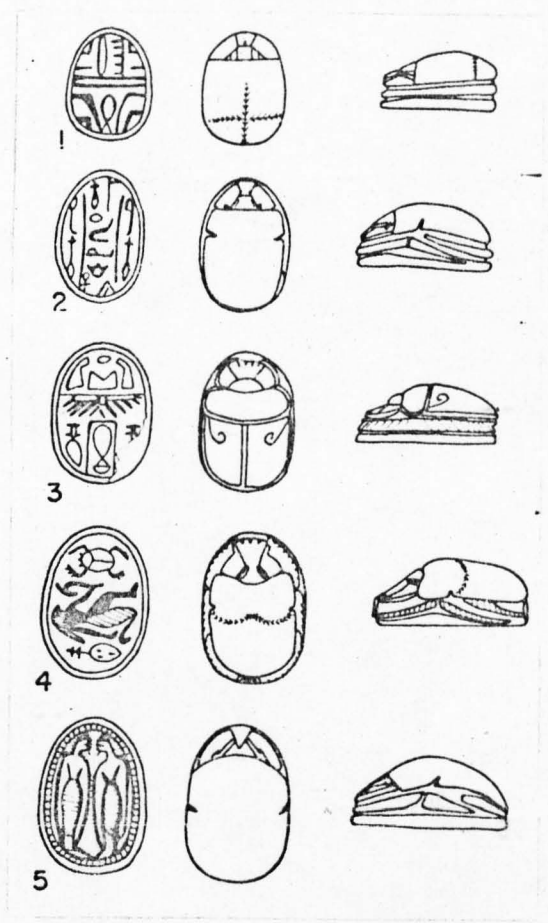
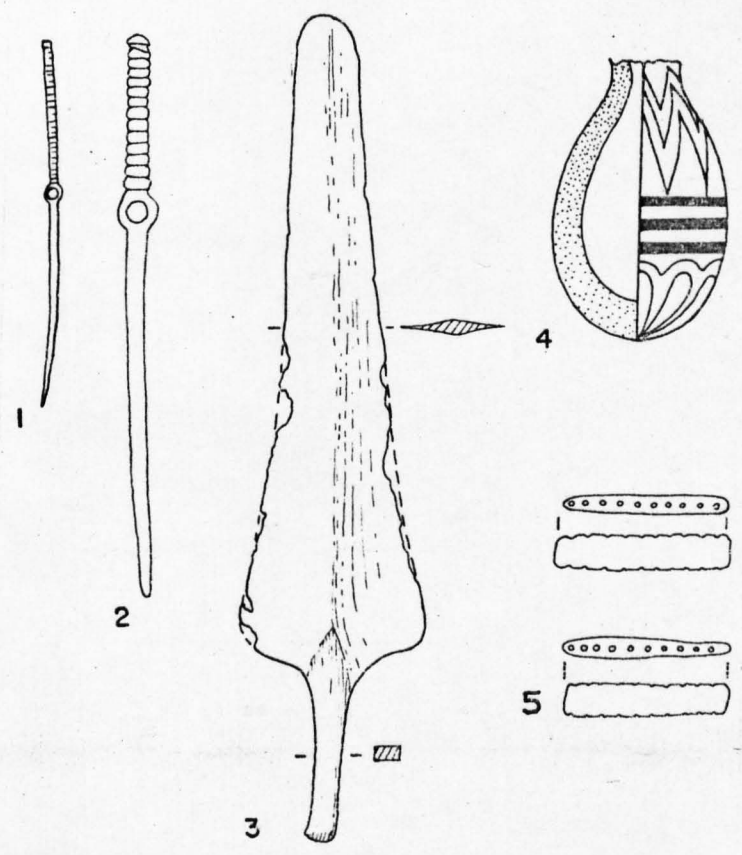


FIG. 22





1/1 FIG.23A



1/2 FIG.23B

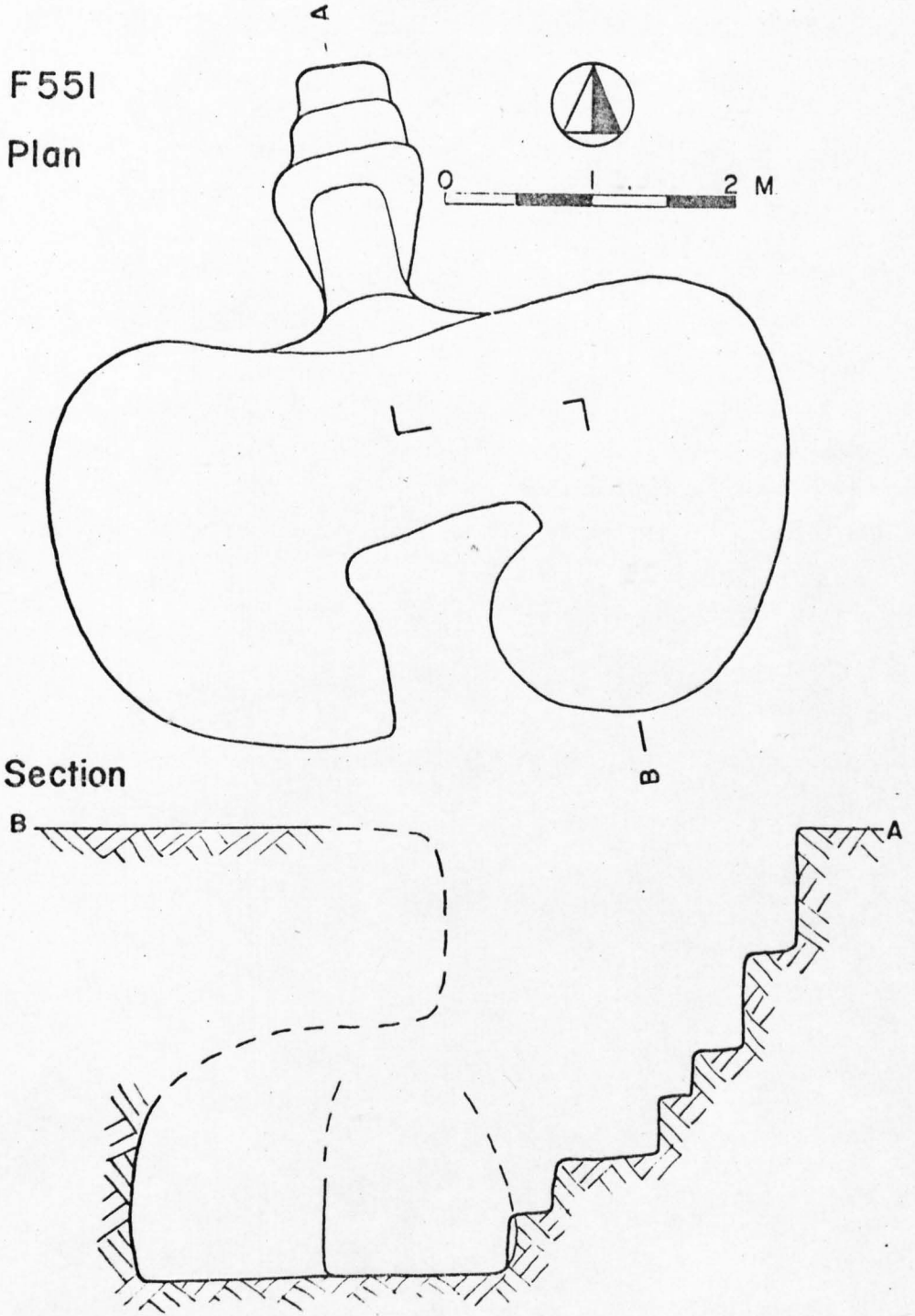
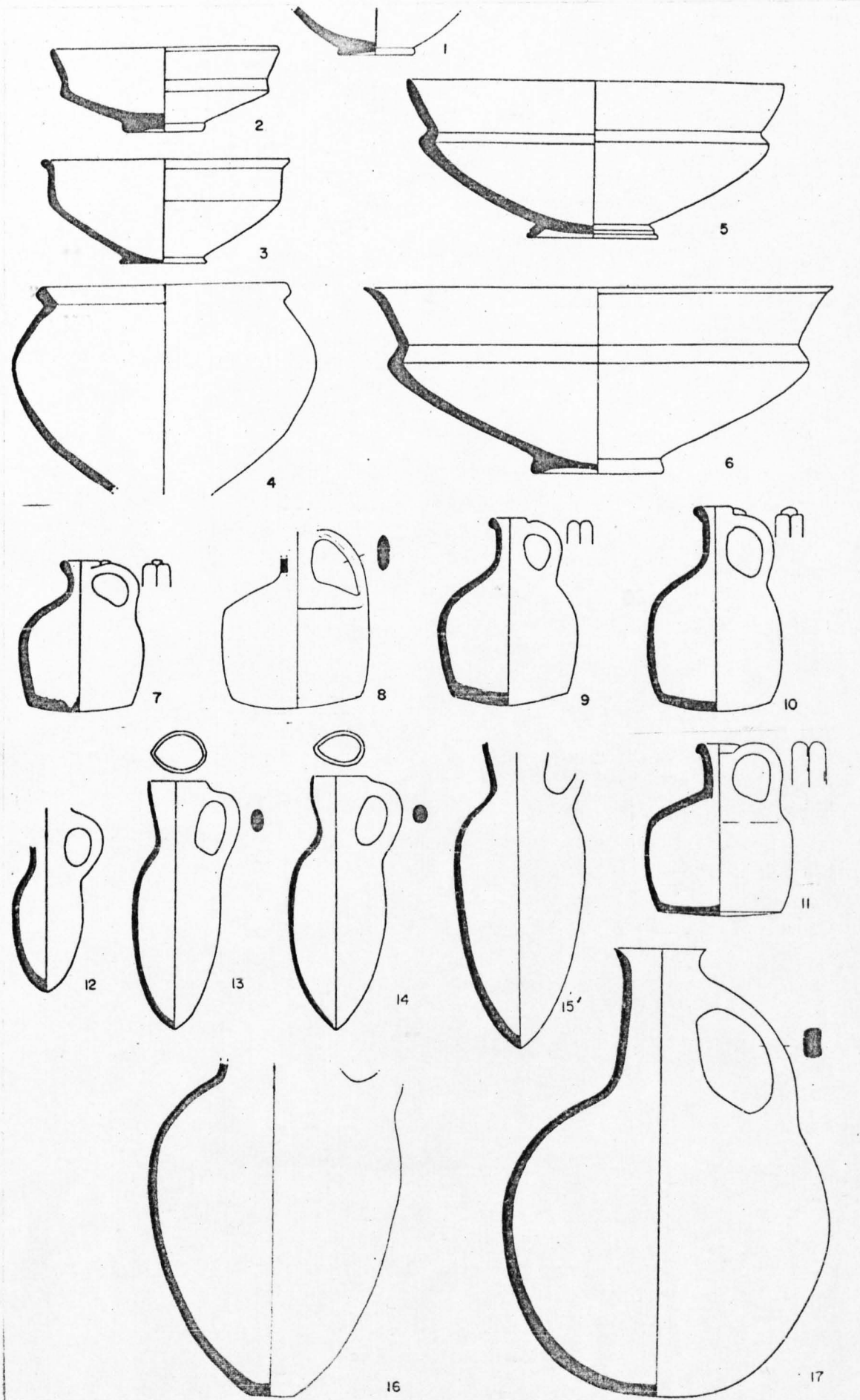


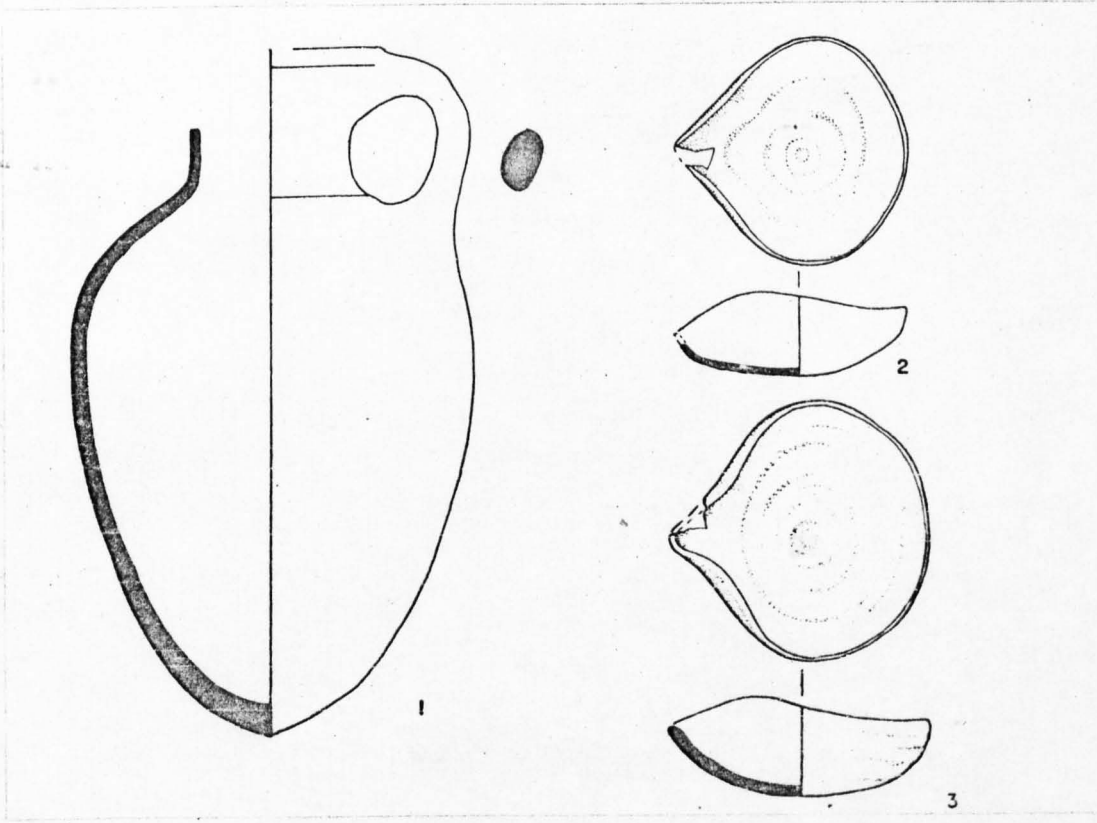
FIG. 24



1/4

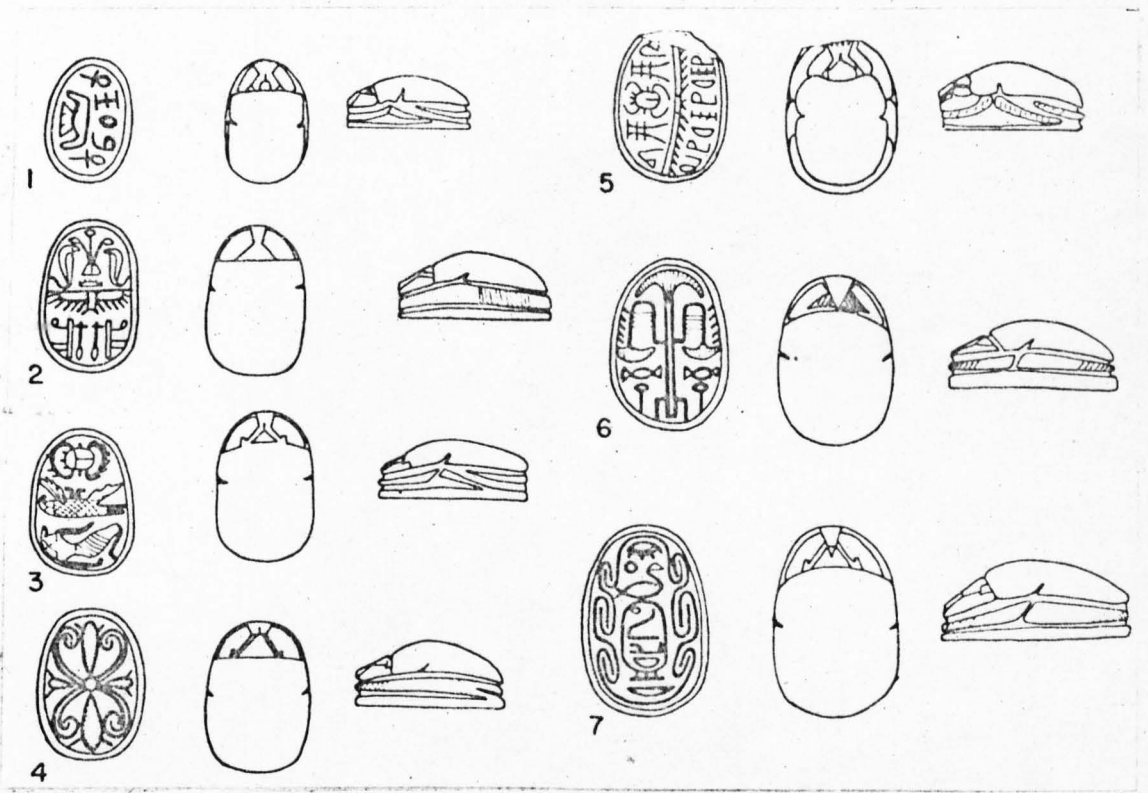
FIG. 25





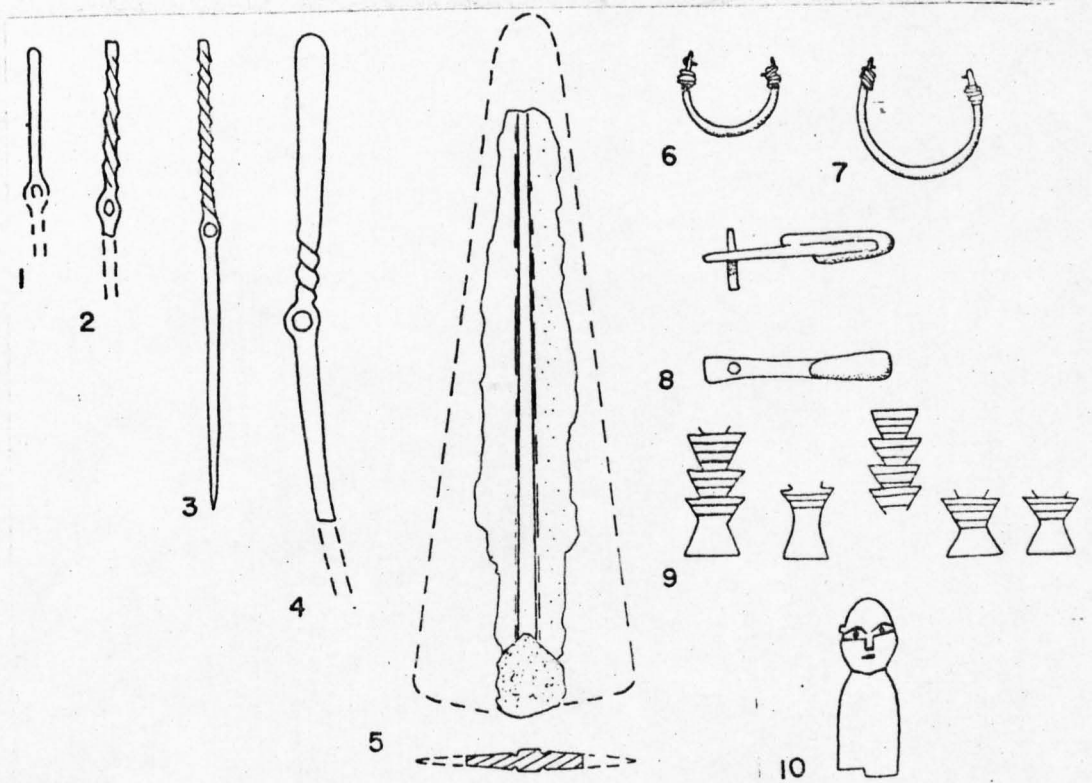
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FIG. 26



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FIG. 27A



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FIG. 27B

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Plan

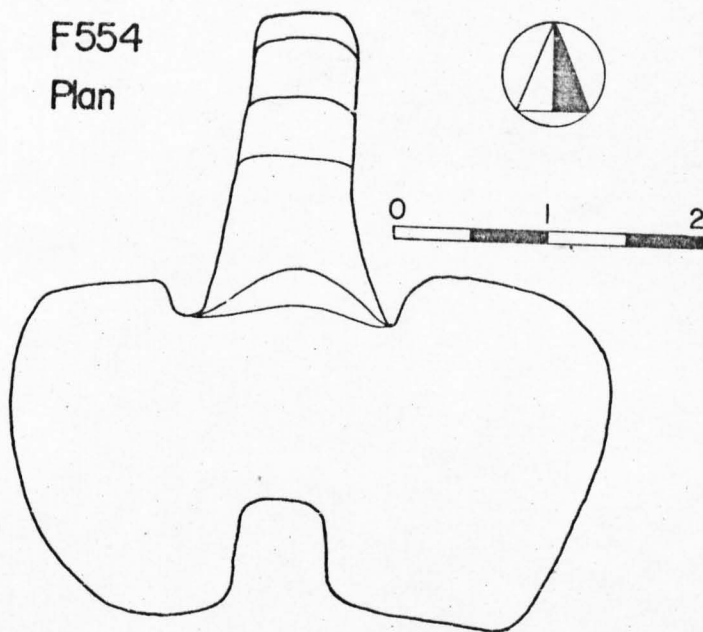
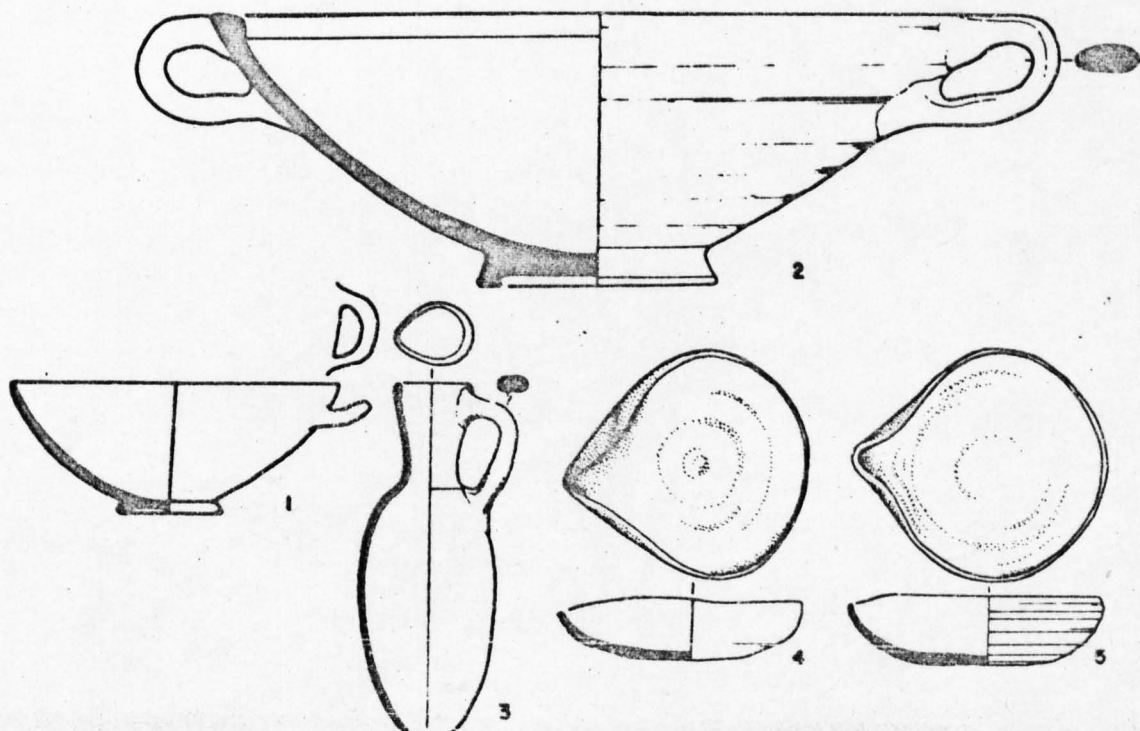
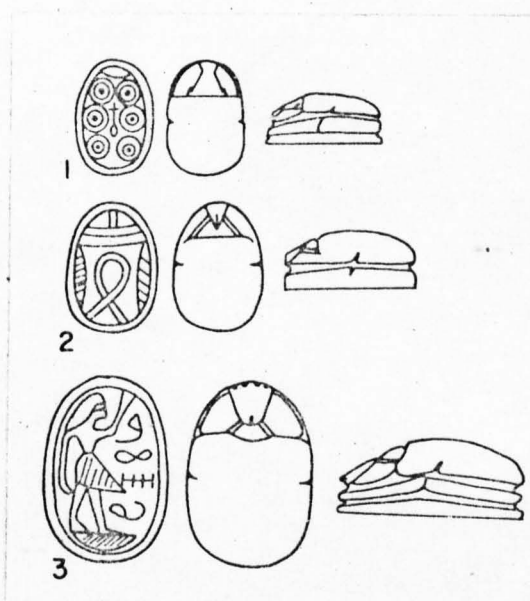


FIG.28A



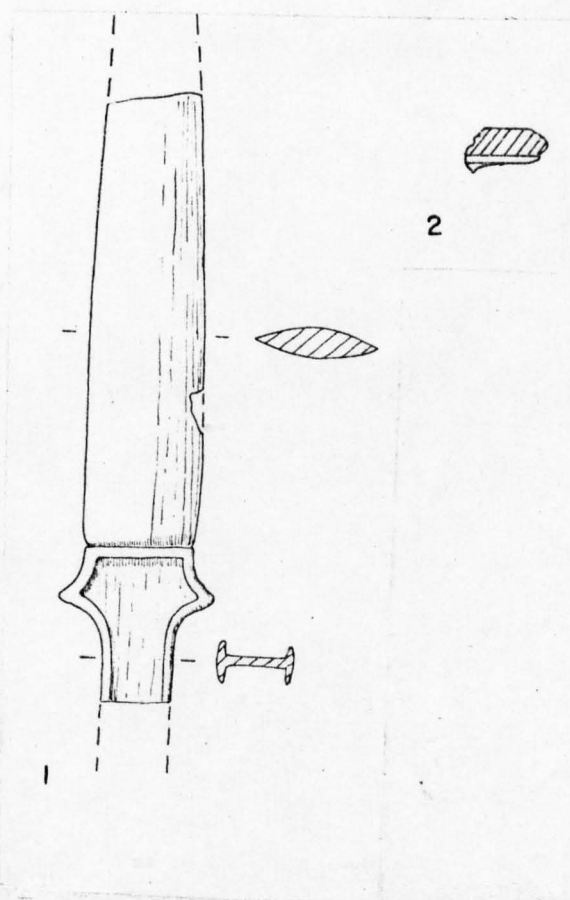
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FIG.28B



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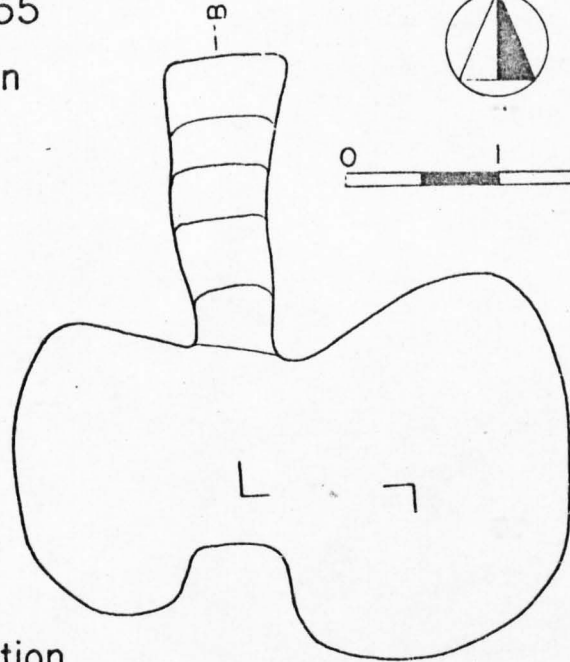
FIG. 29A



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FIG. 29B

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Plan



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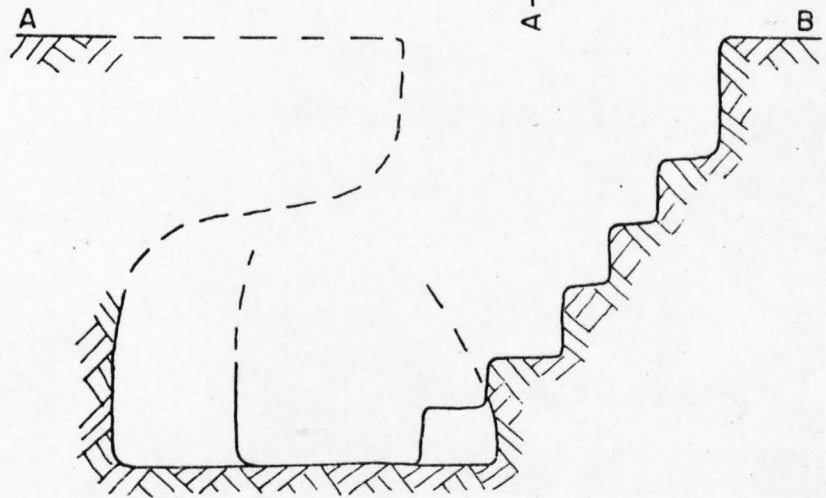
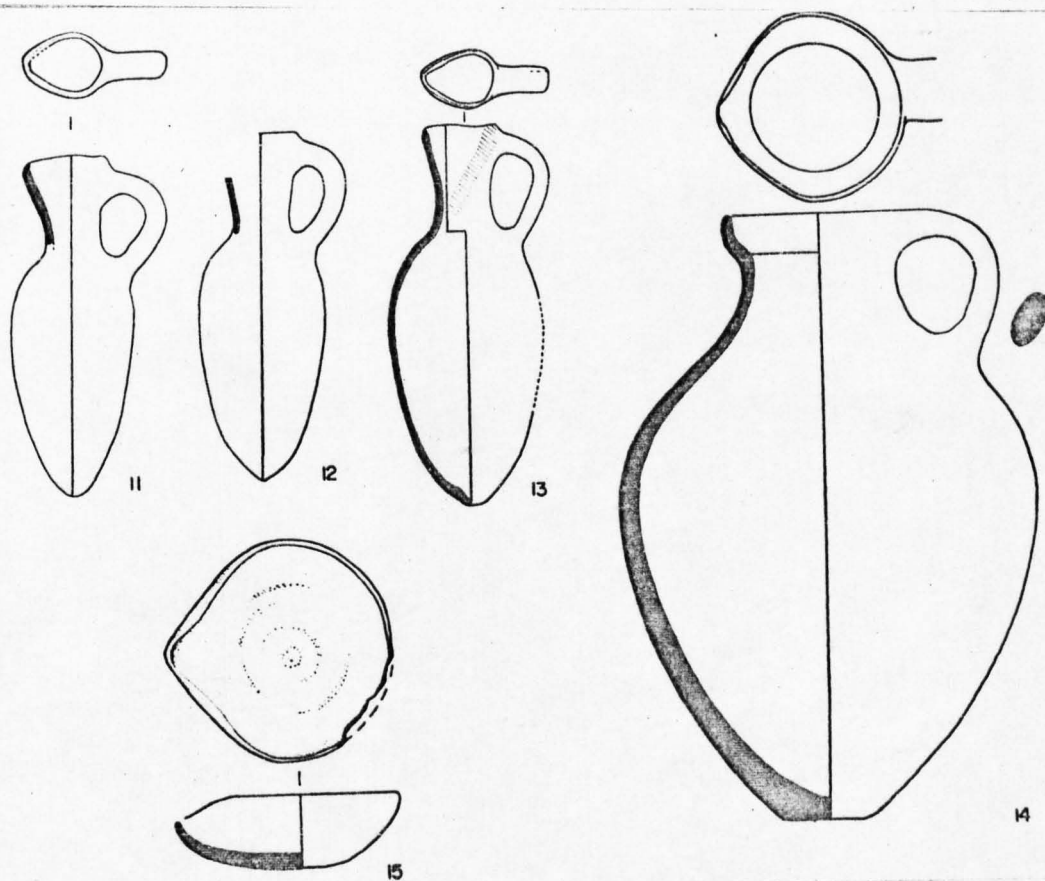
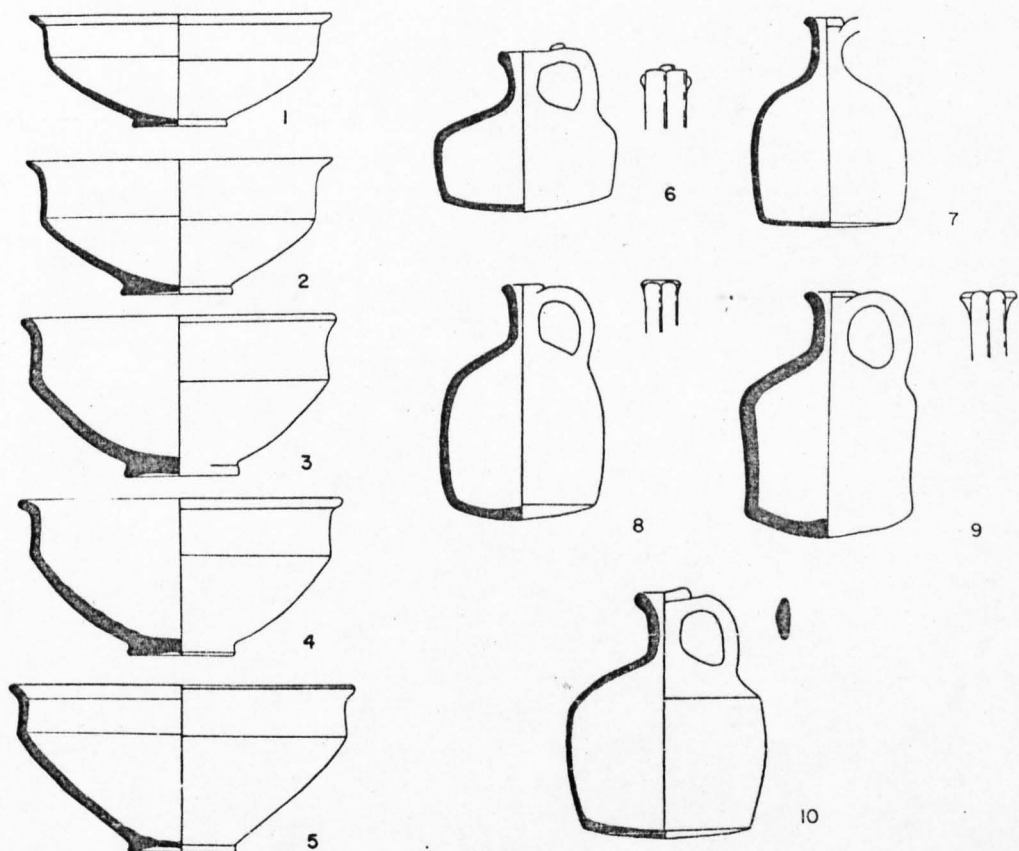


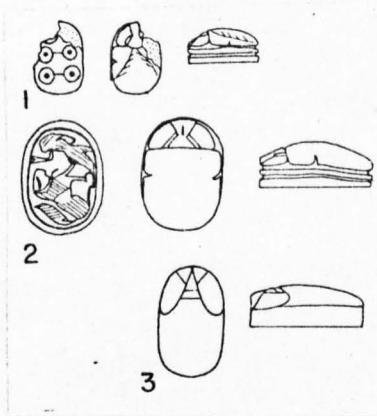
FIG. 30



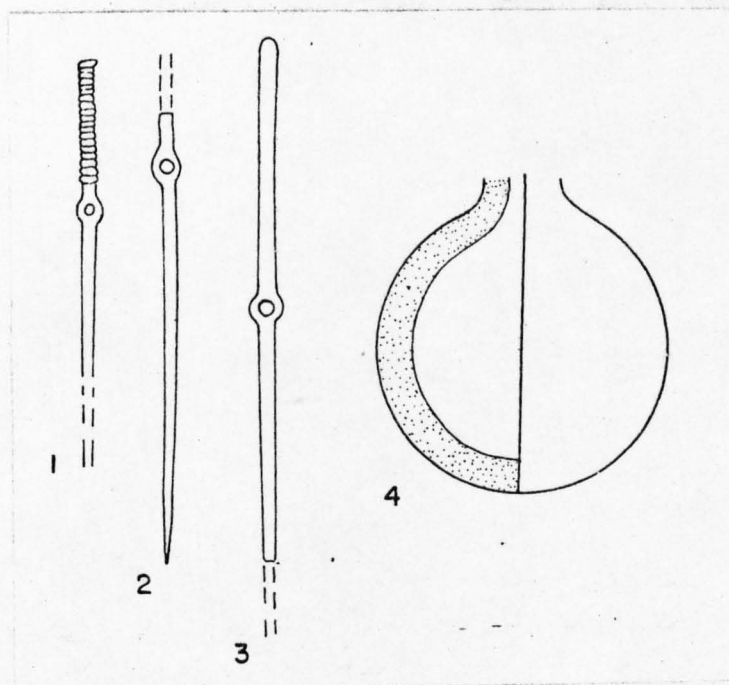


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FIG. 31



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FIG. 32A

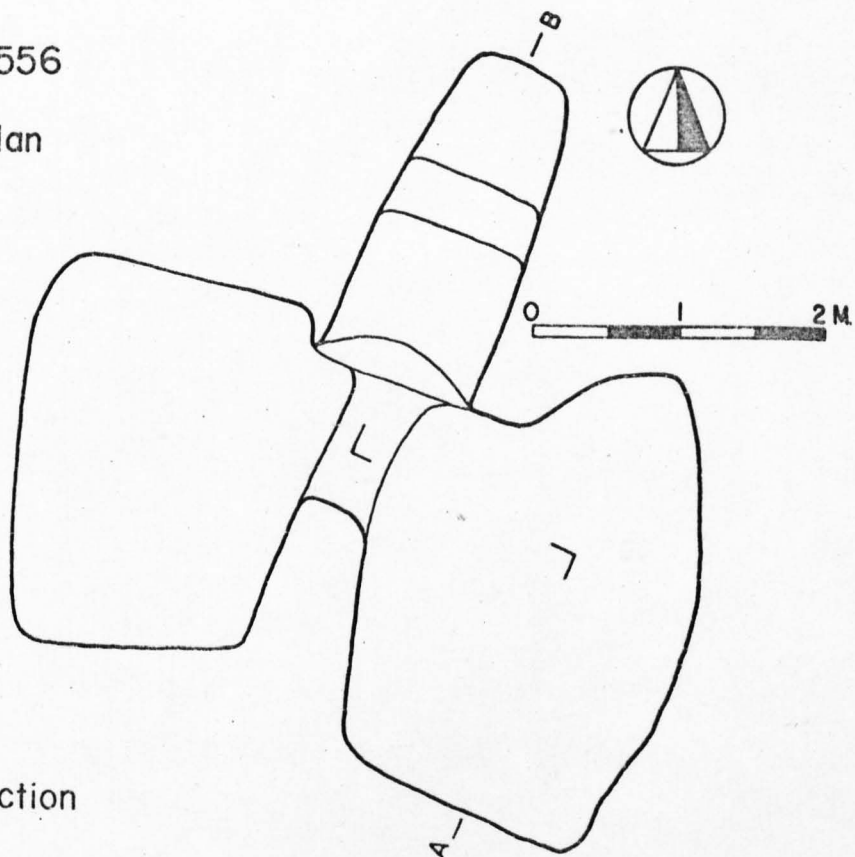


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FIG. 32B

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Plan



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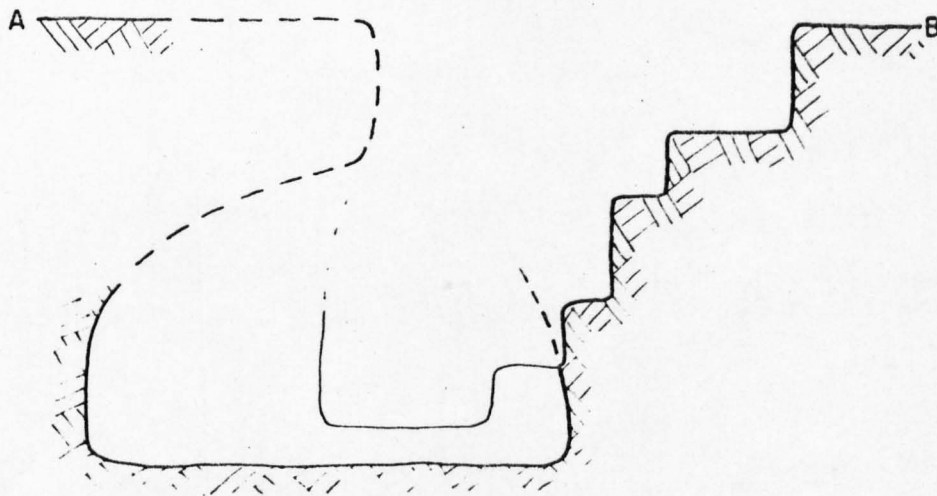
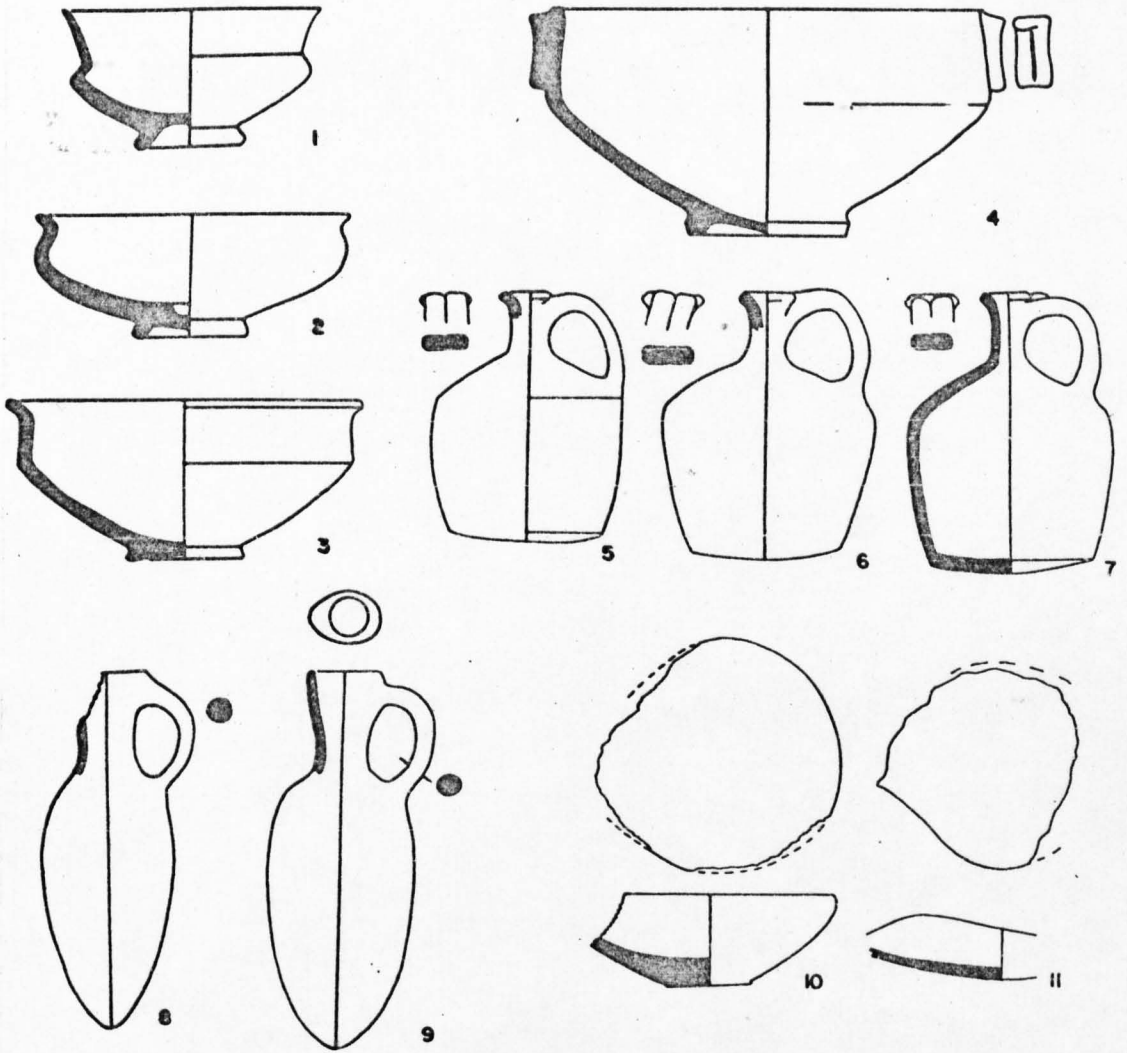


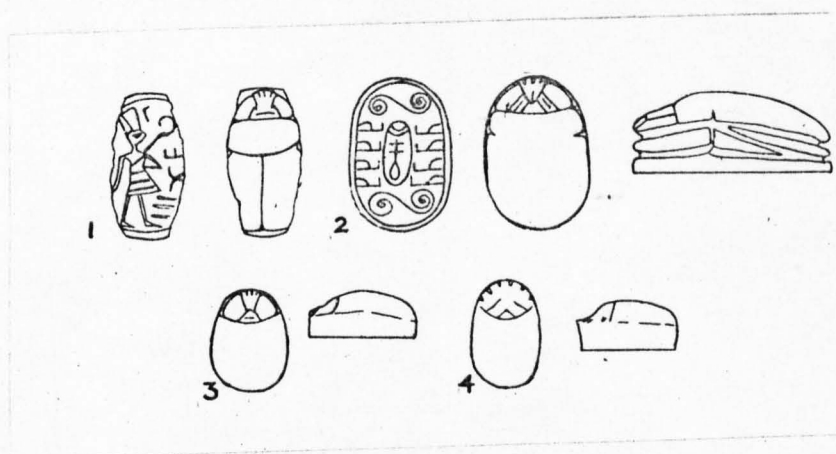
FIG. 33





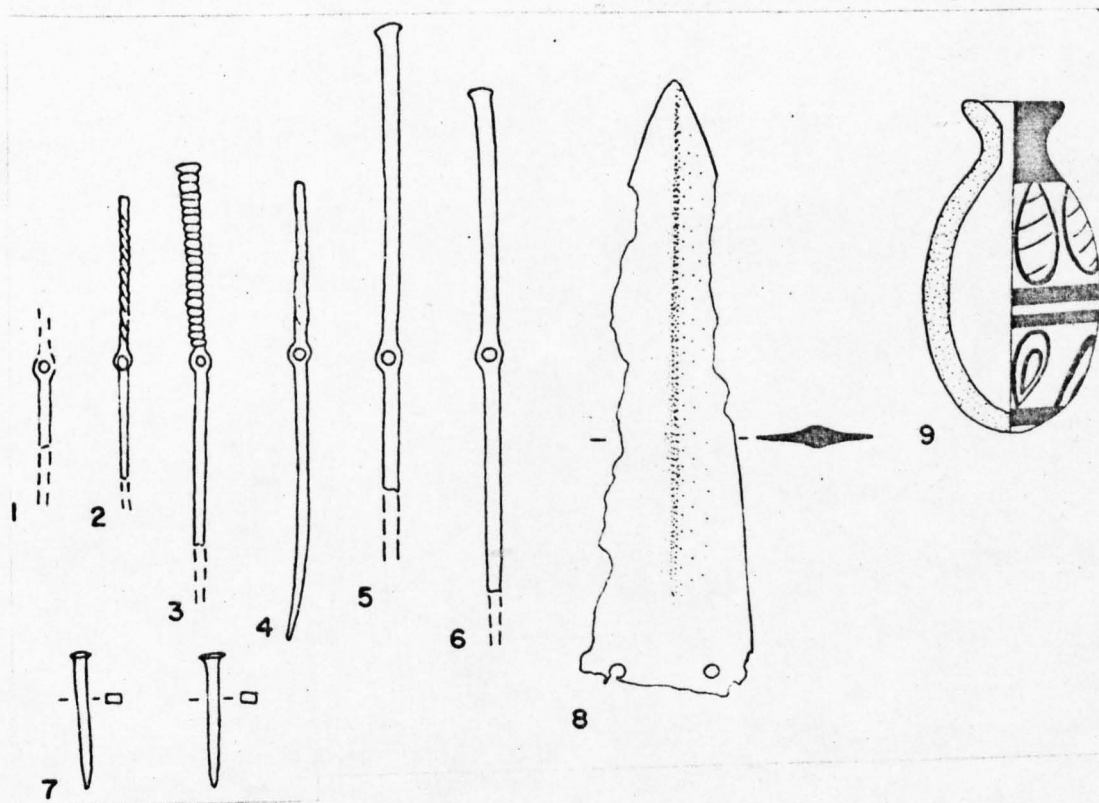
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FIG. 34



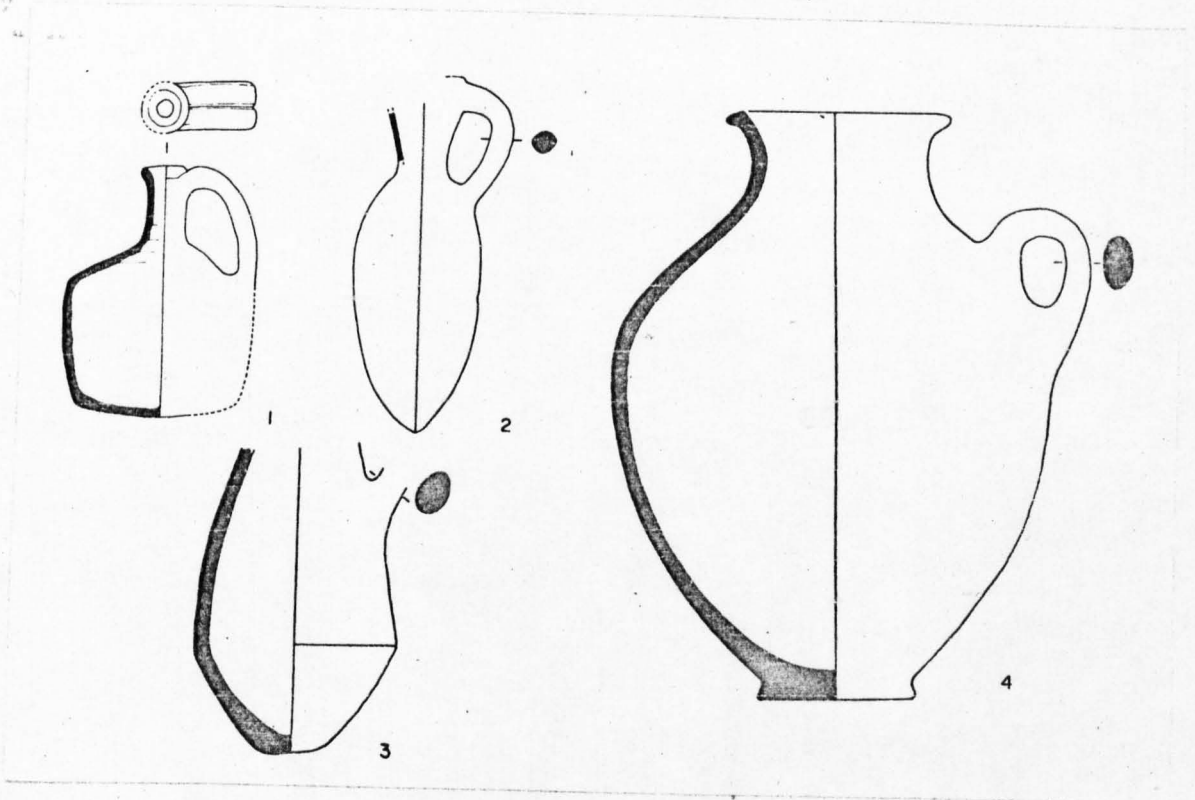
1/1

FIG. 35A



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FIG. 35B

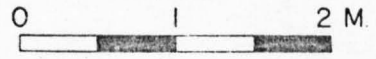
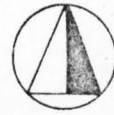
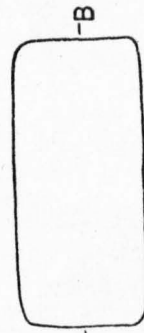


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FIG. 36

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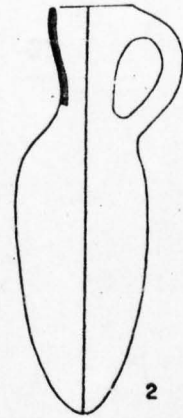
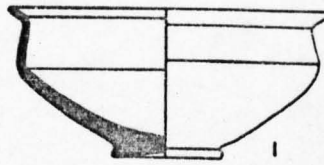
Plan



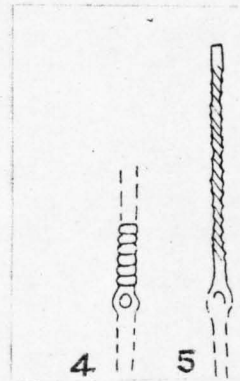
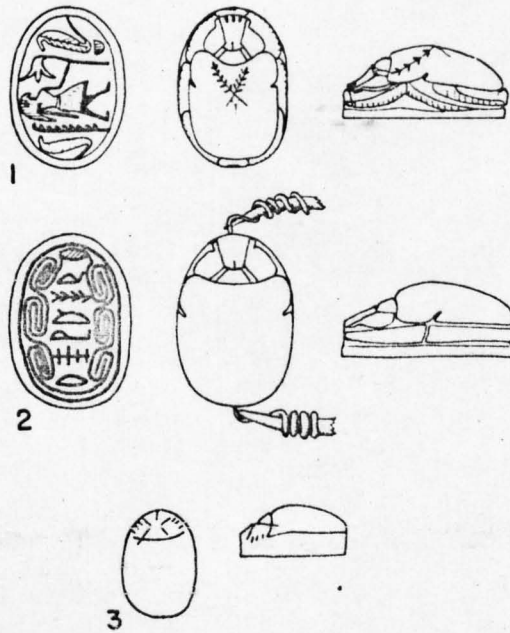
Section



FIG. 37A



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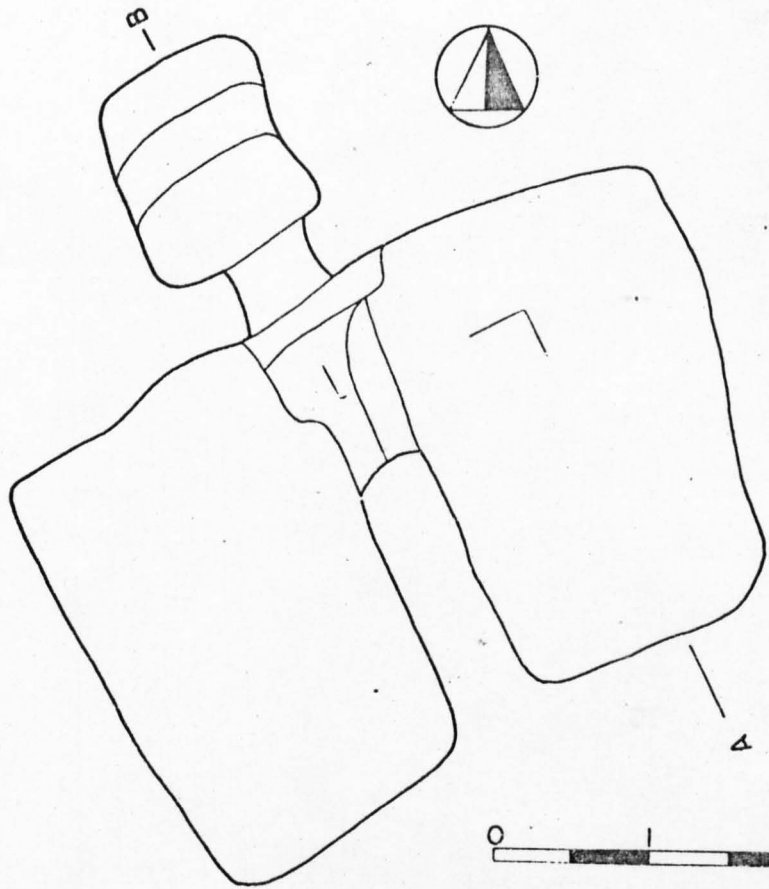
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FIG. 37C

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Plan



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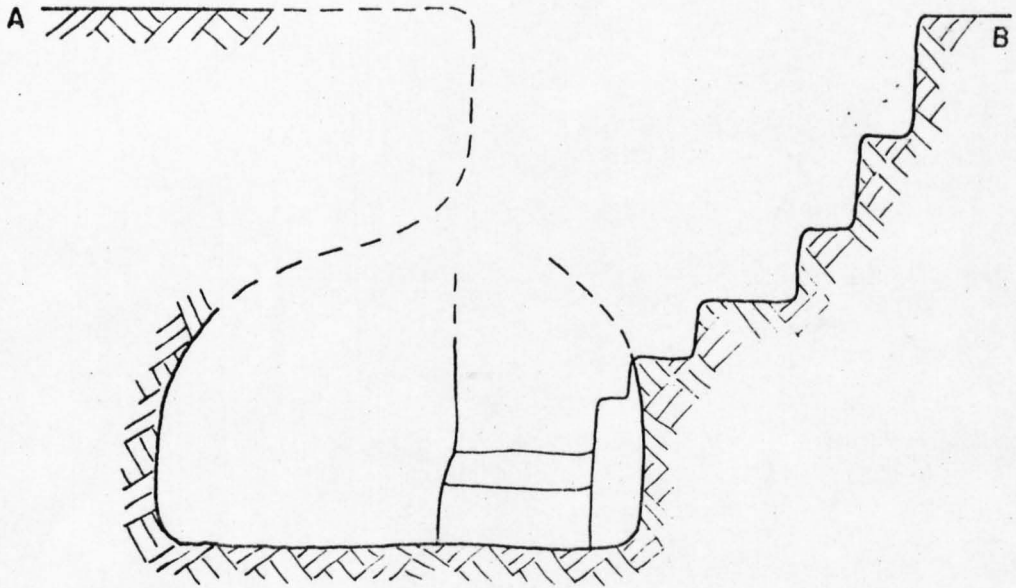
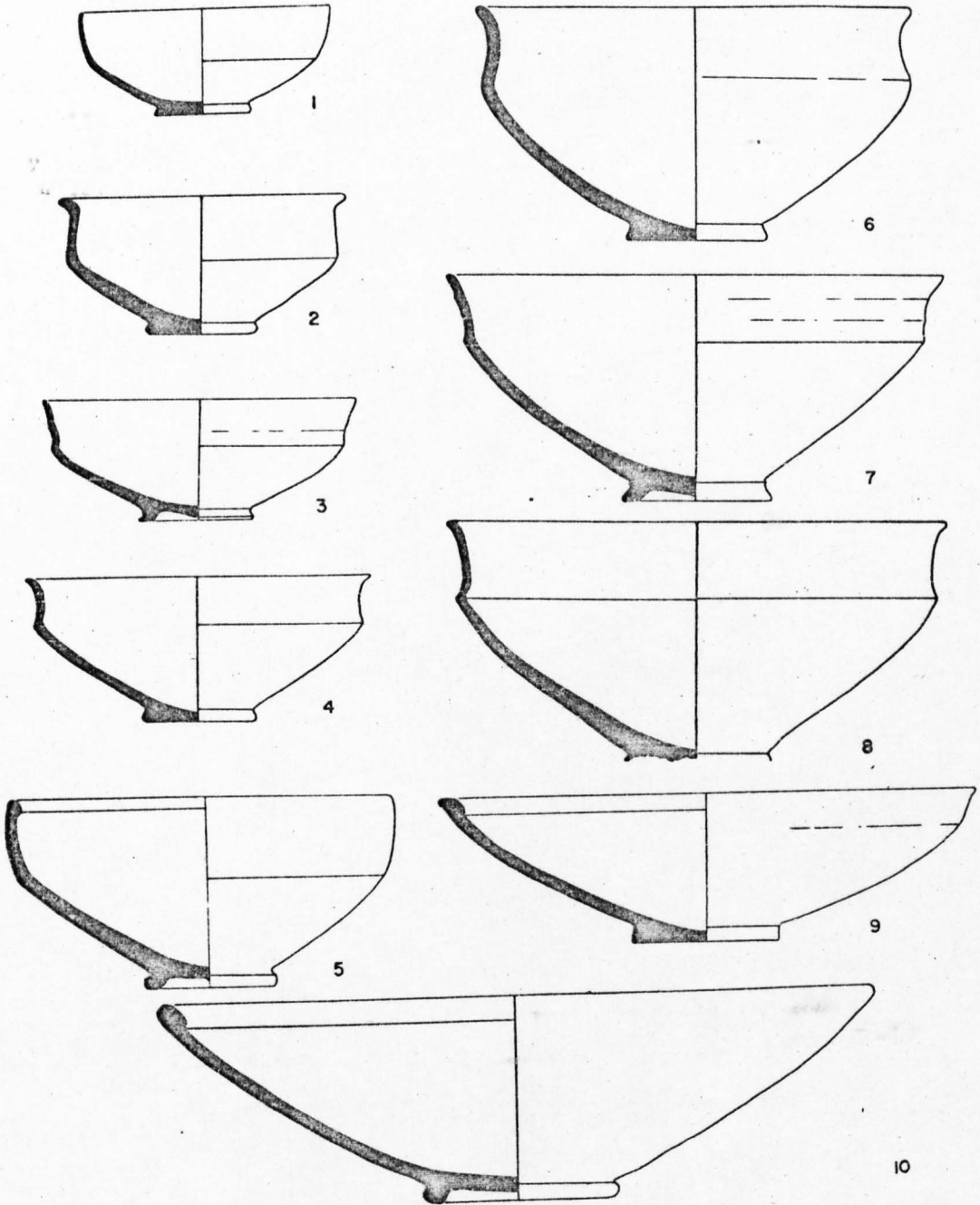


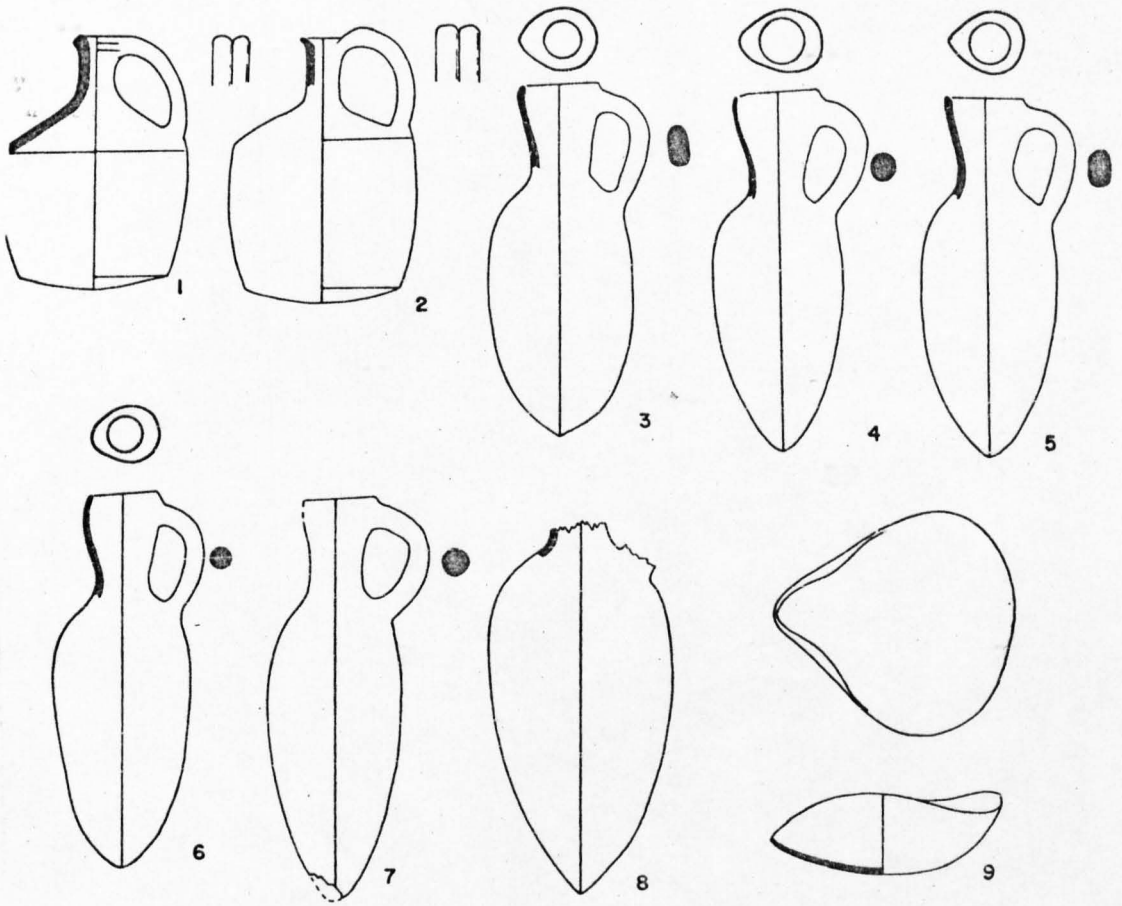
FIG. 38





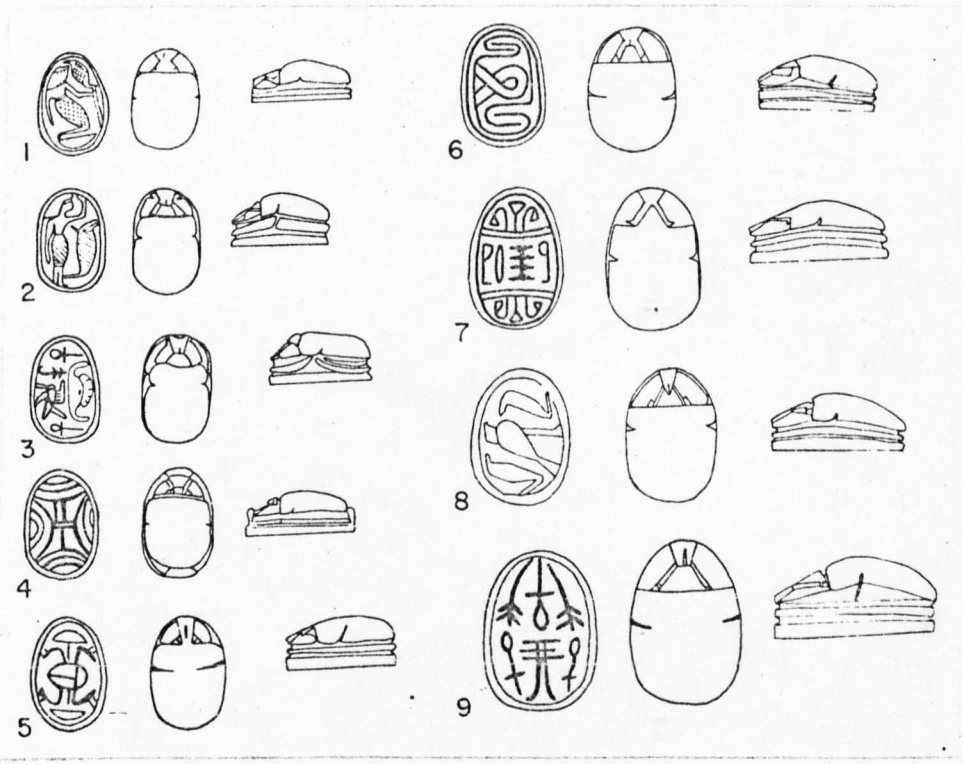
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FIG. 39



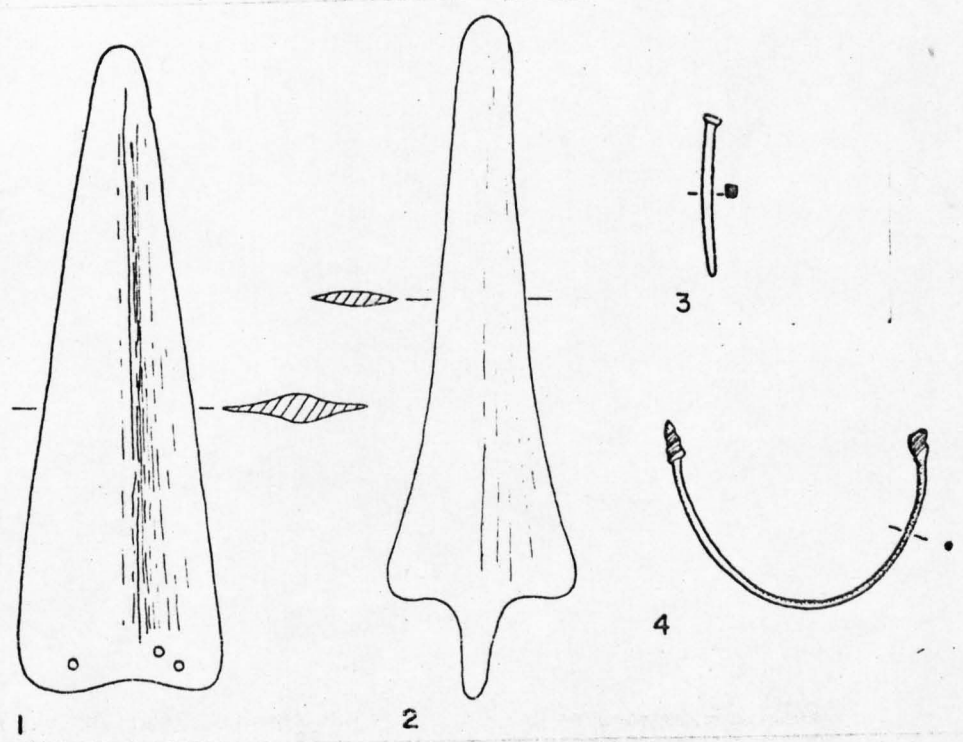
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FIG.40



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FIG. 41A



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FIG. 41B



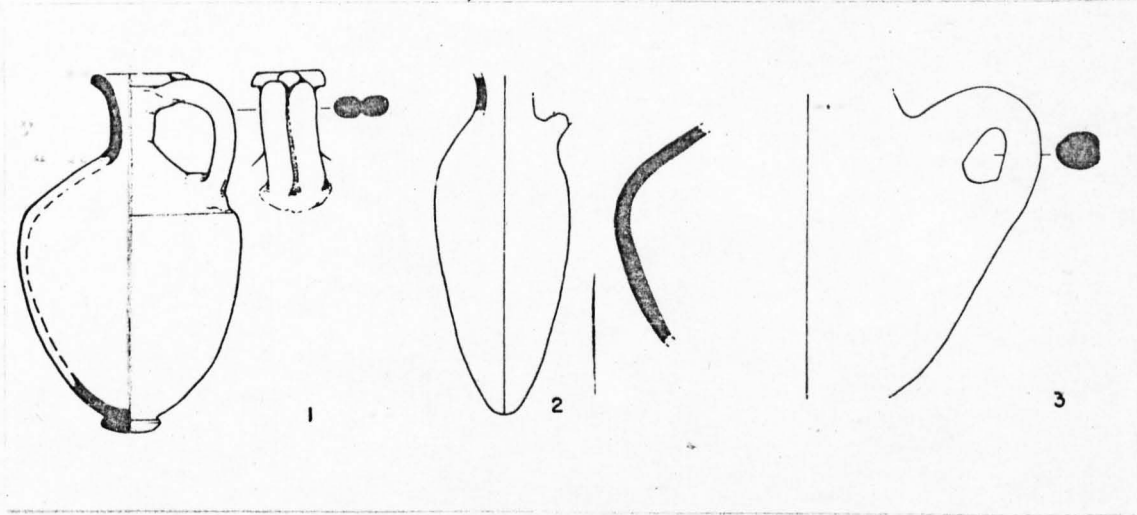
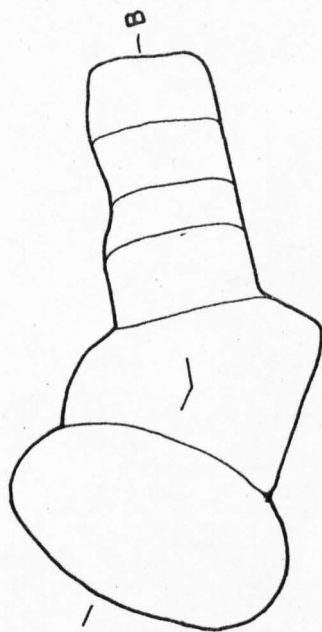


FIG. 42

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Plan



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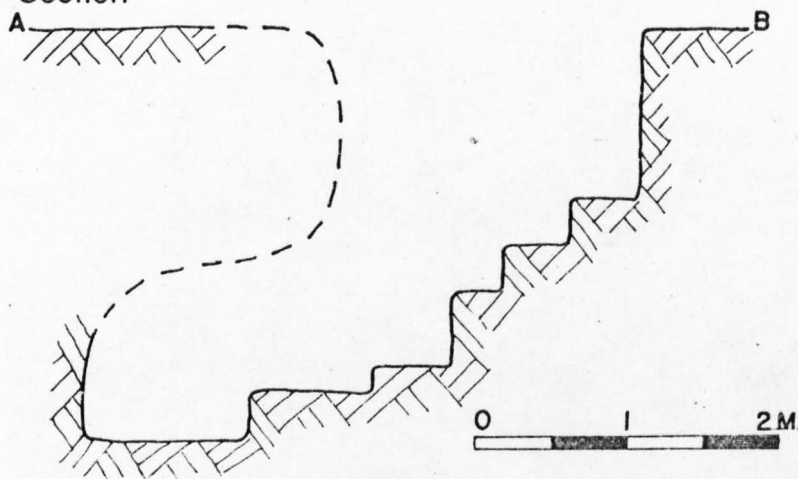
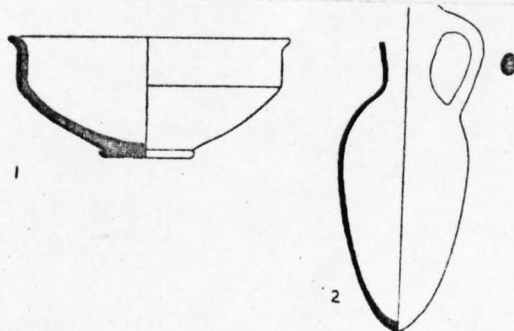
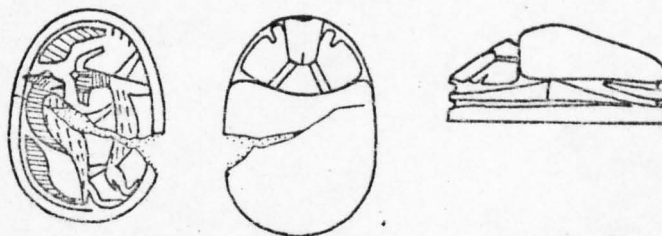


FIG. 43A



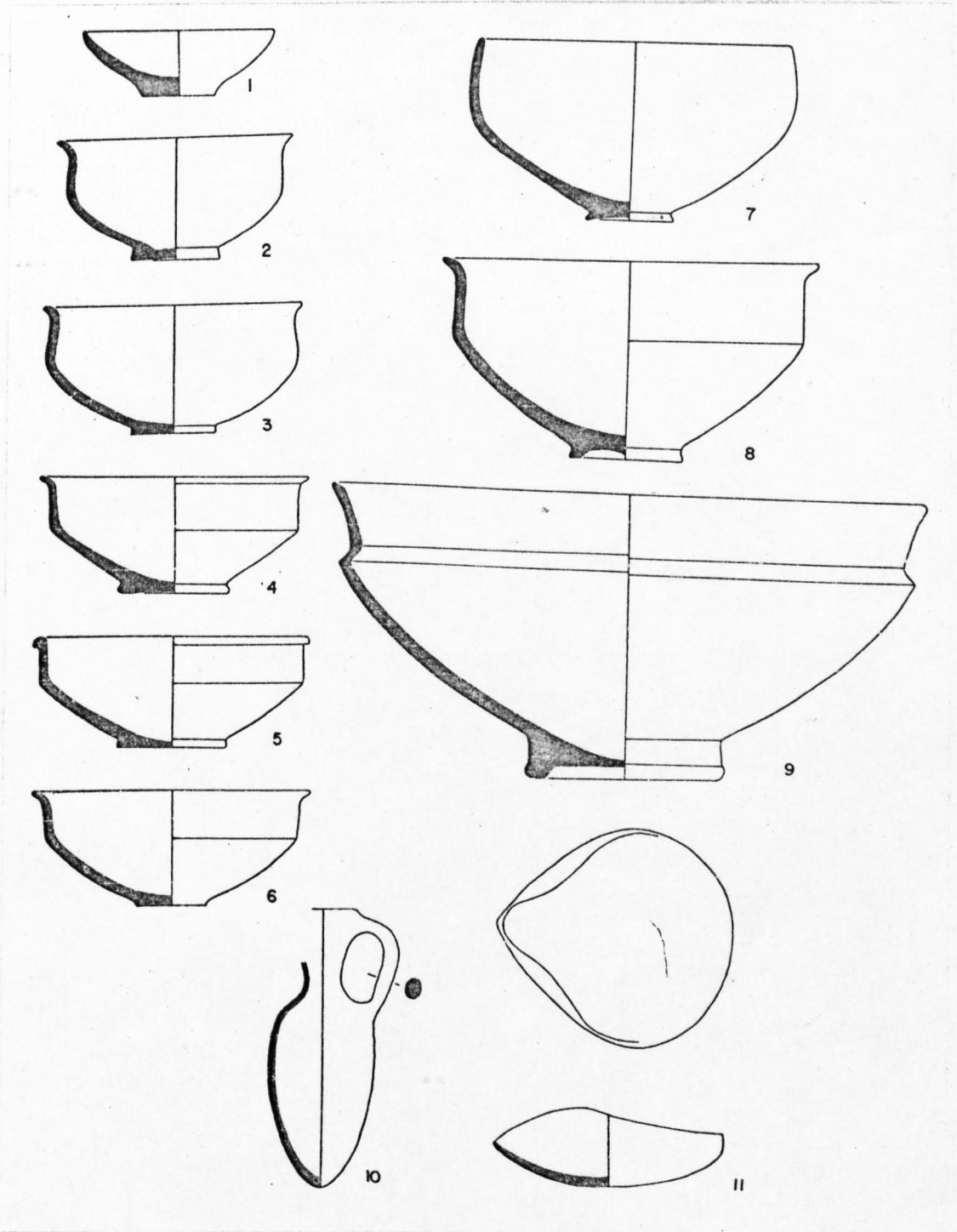
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FIG. 43B



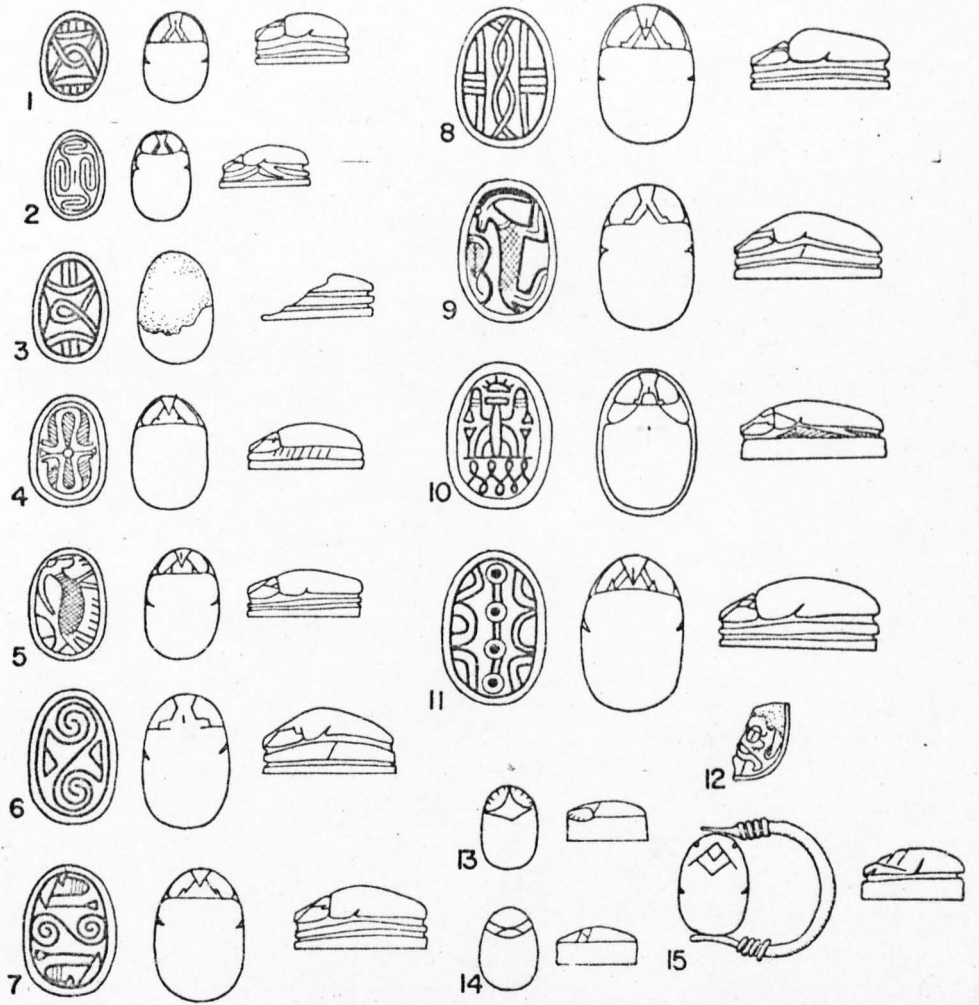
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FIG. 43C



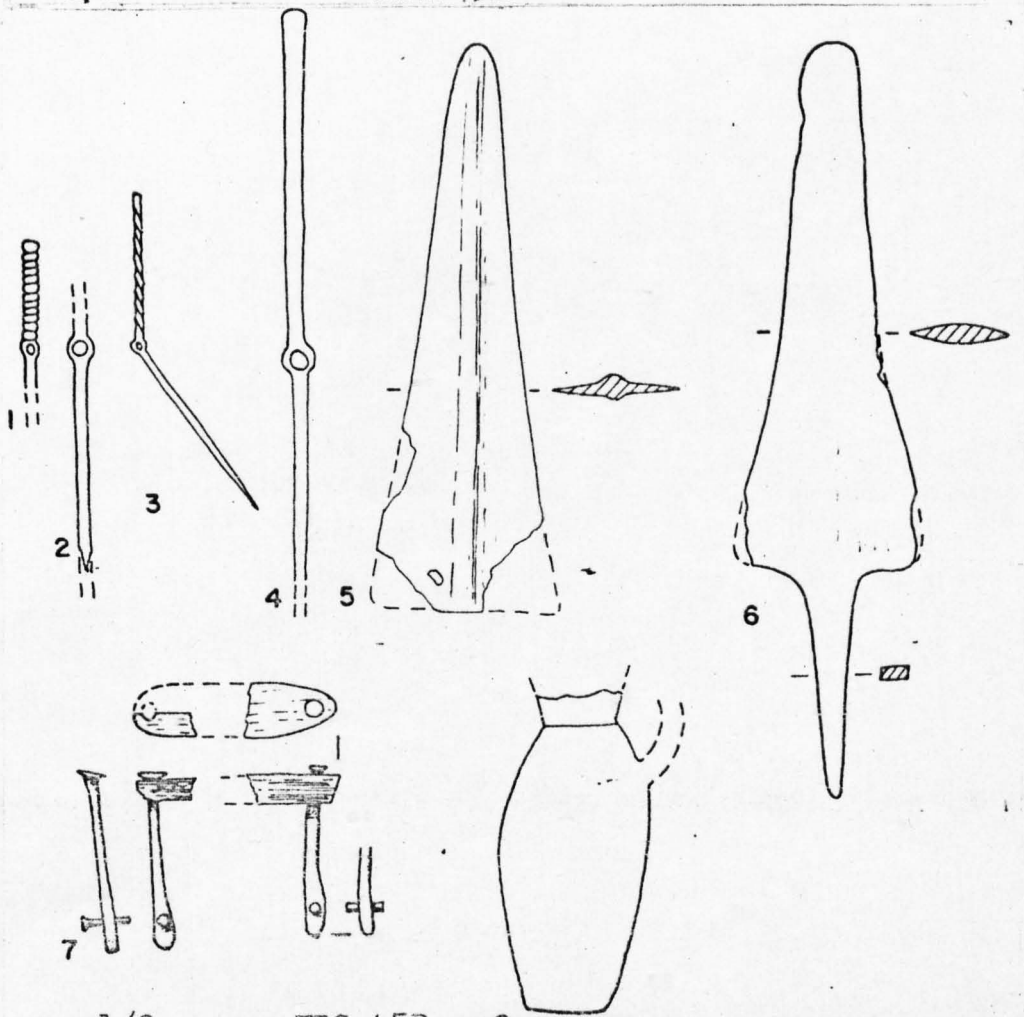
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FIG. 44



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FIG. 45A



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FIG. 45B

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Plan

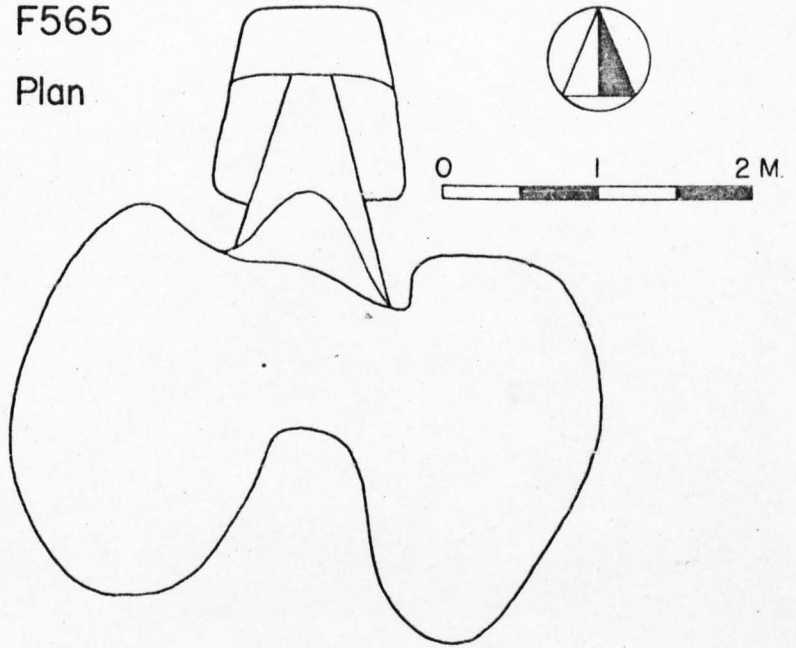


FIG. 46



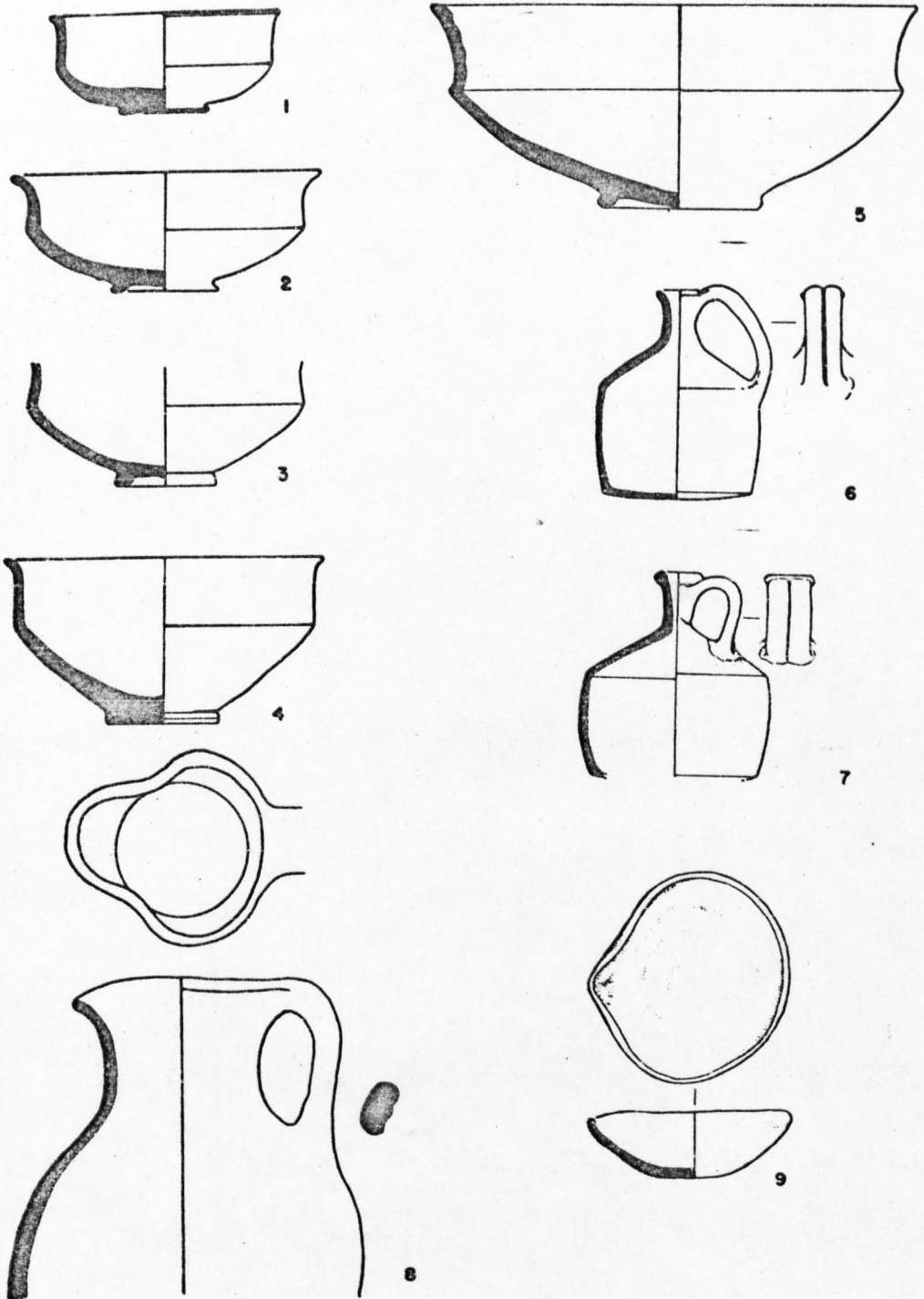
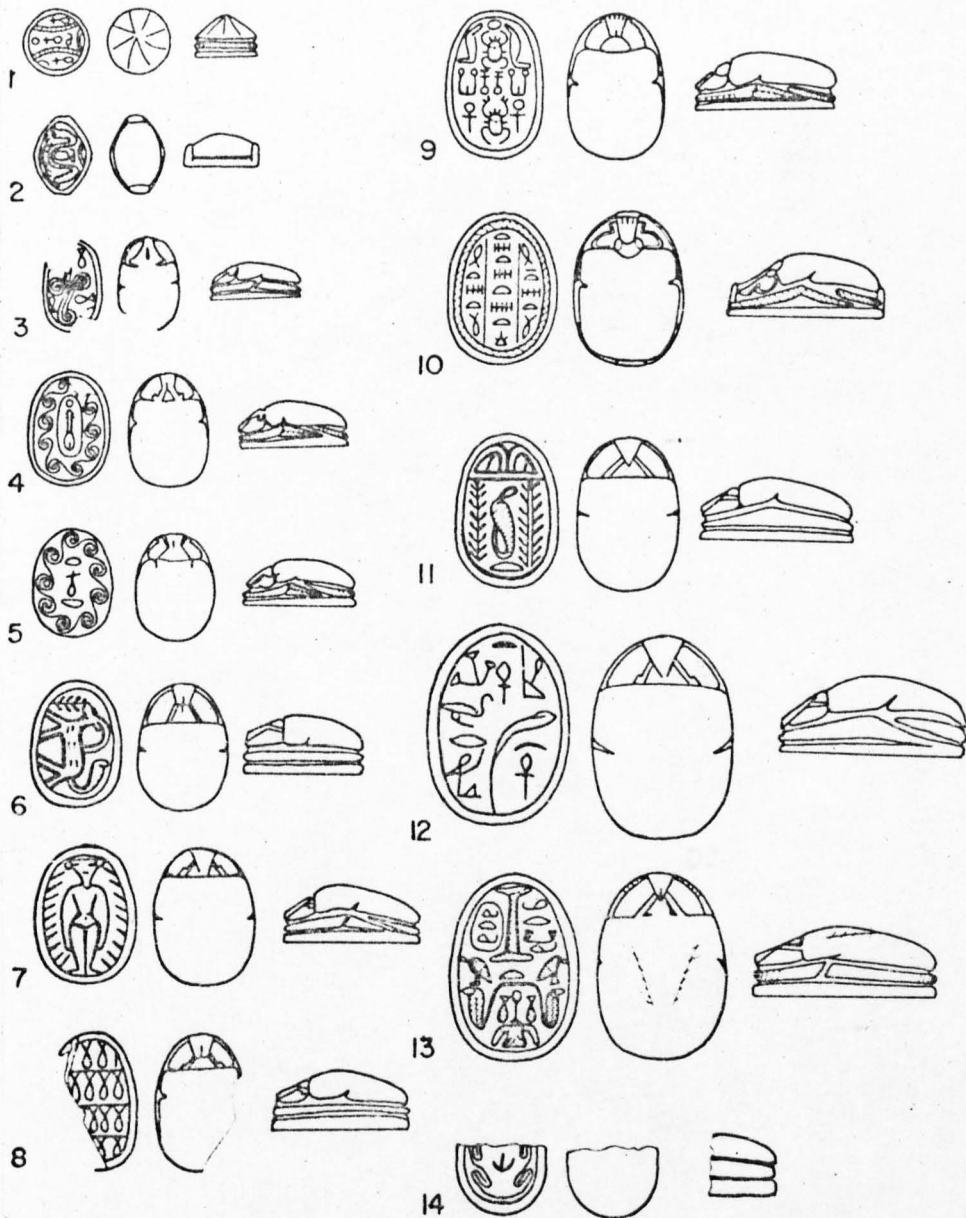
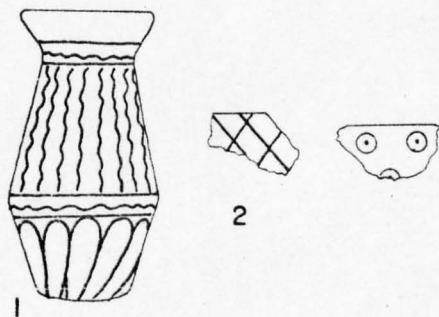


FIG. 47



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FIG. 48A

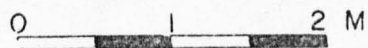
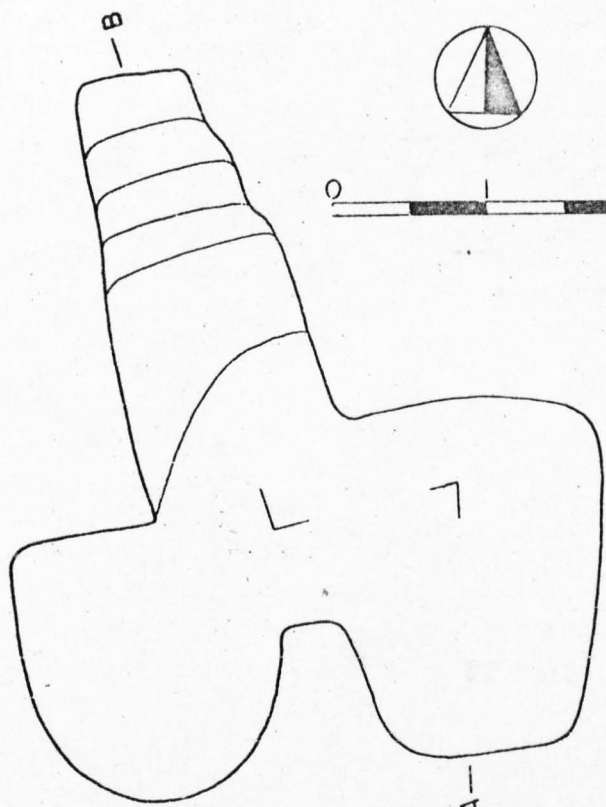


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FIG. 48B

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Plan



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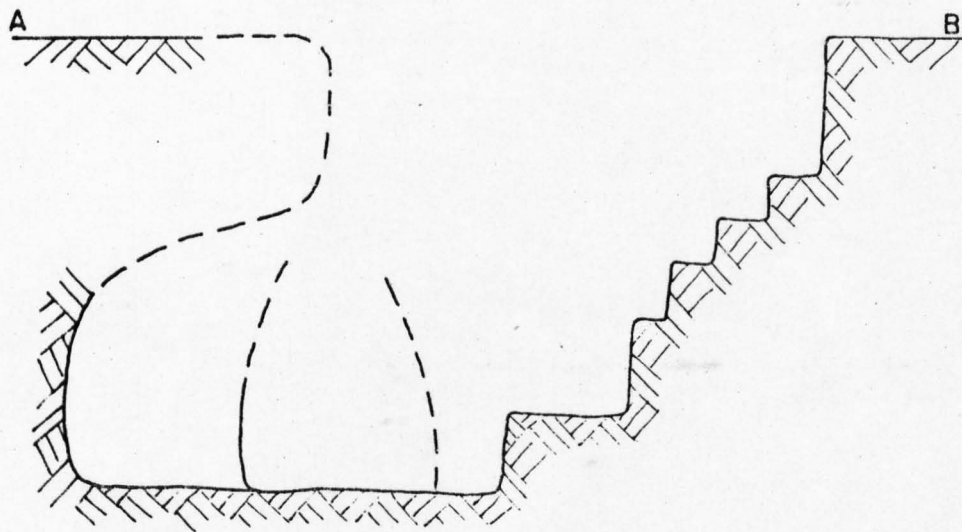
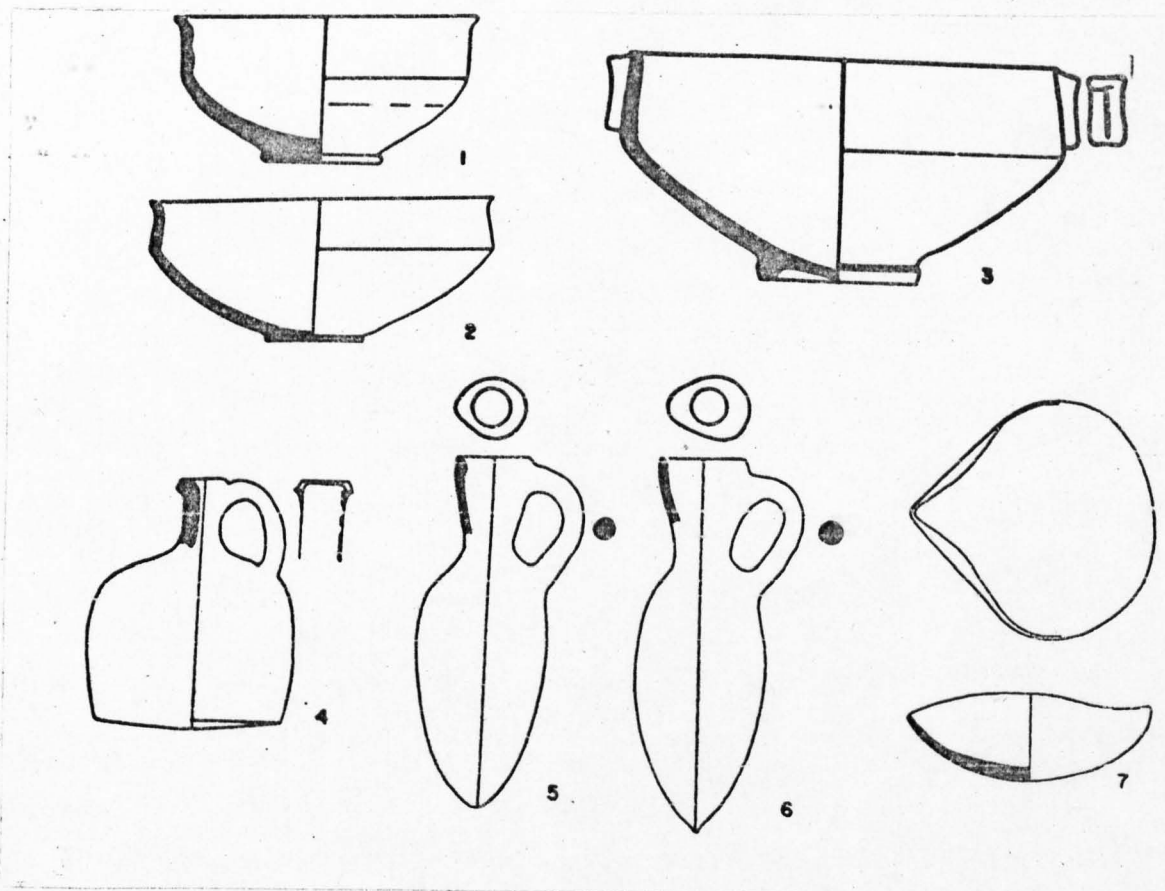


FIG. 49





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FIG. 50

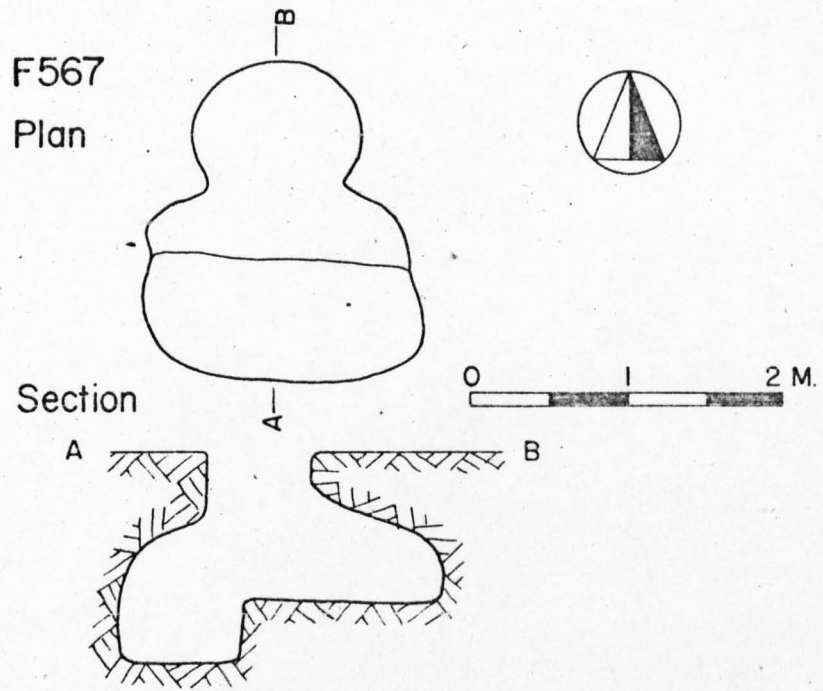
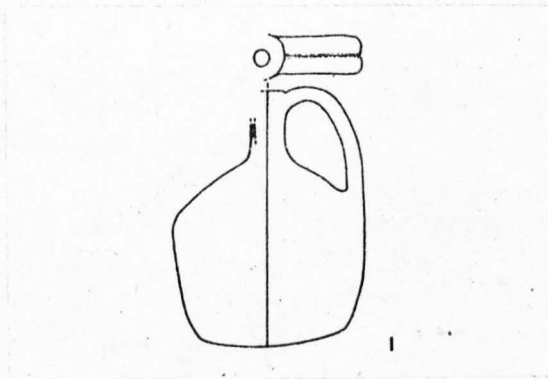
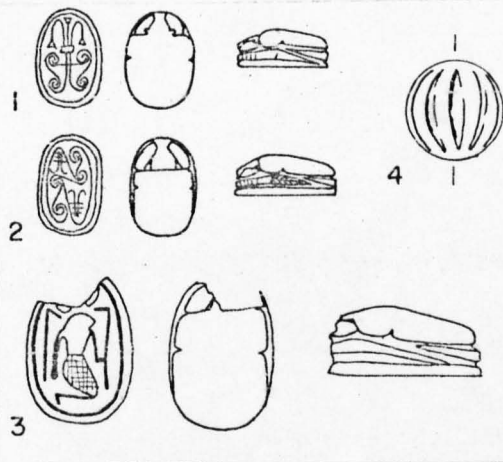


FIG. 51



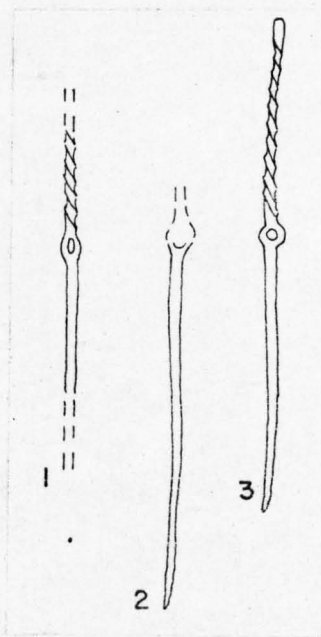
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FIG. 52A



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FIG. 52B



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FIG. 52C

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Plan

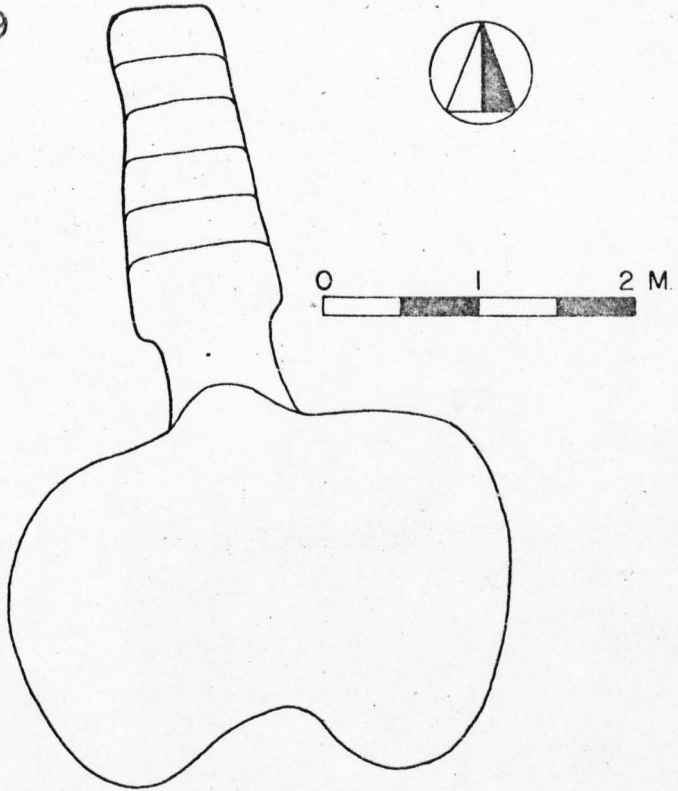
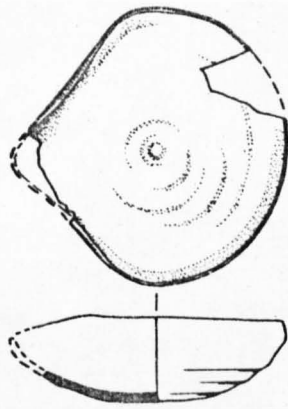
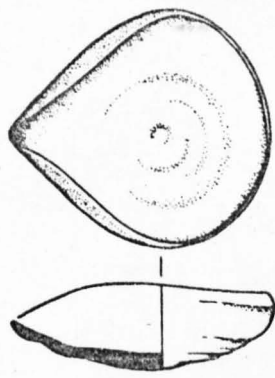
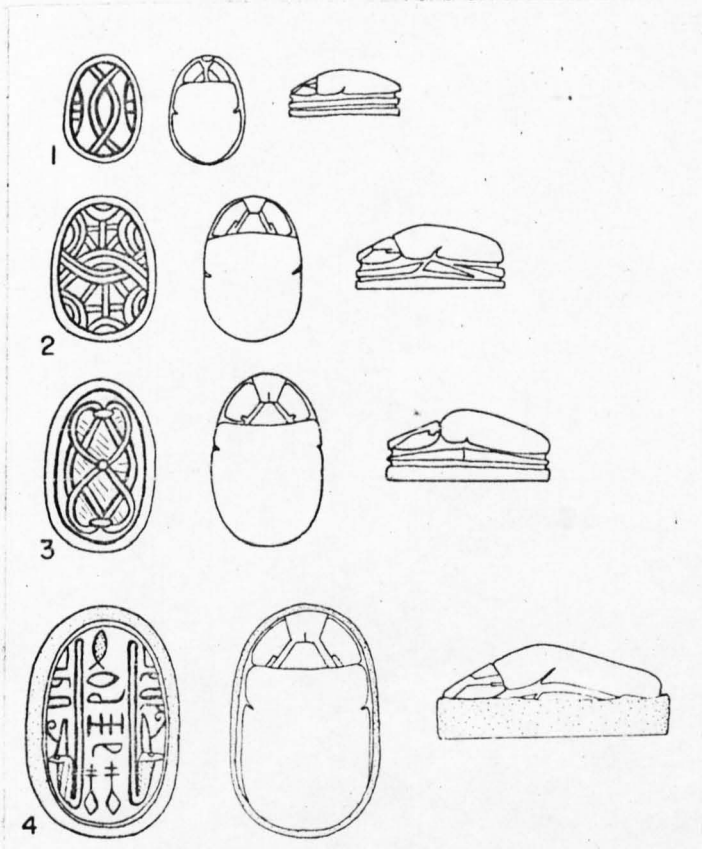


FIG. 53



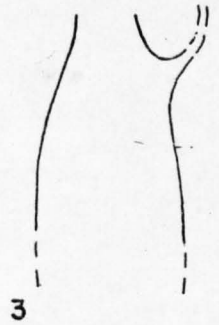
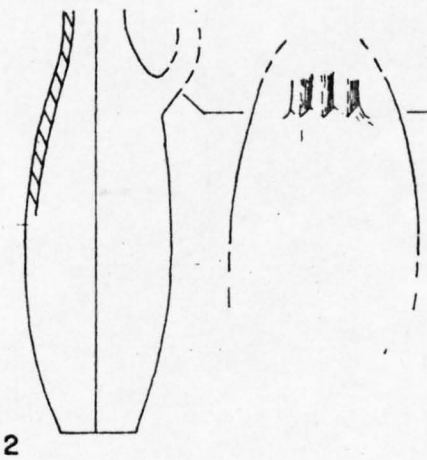
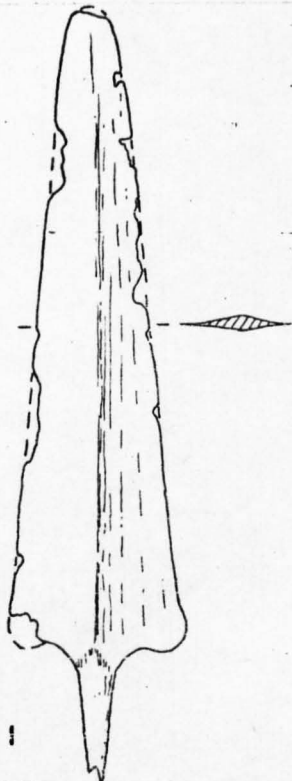
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FIG. 55A



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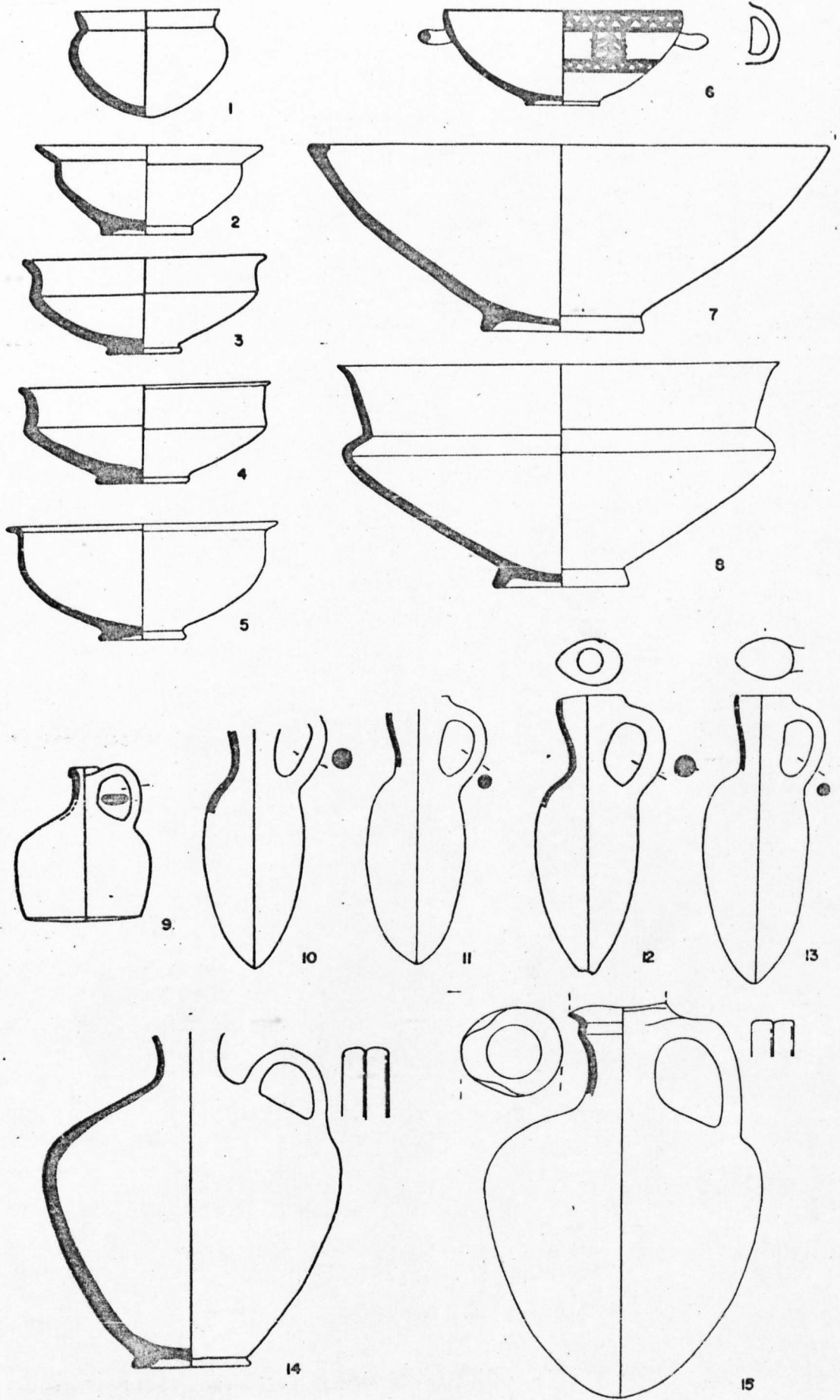
FIG. 55B



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FIG. 55C



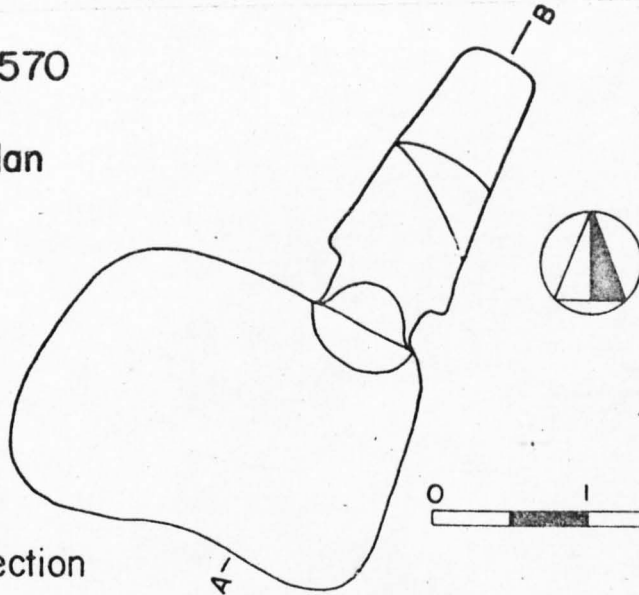


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FIG. 54

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Section

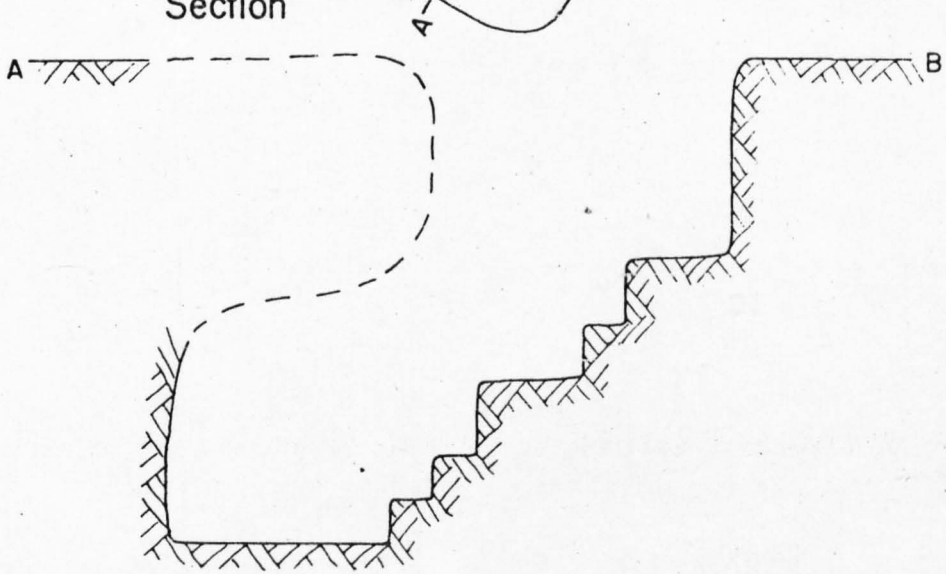


FIG. 56A

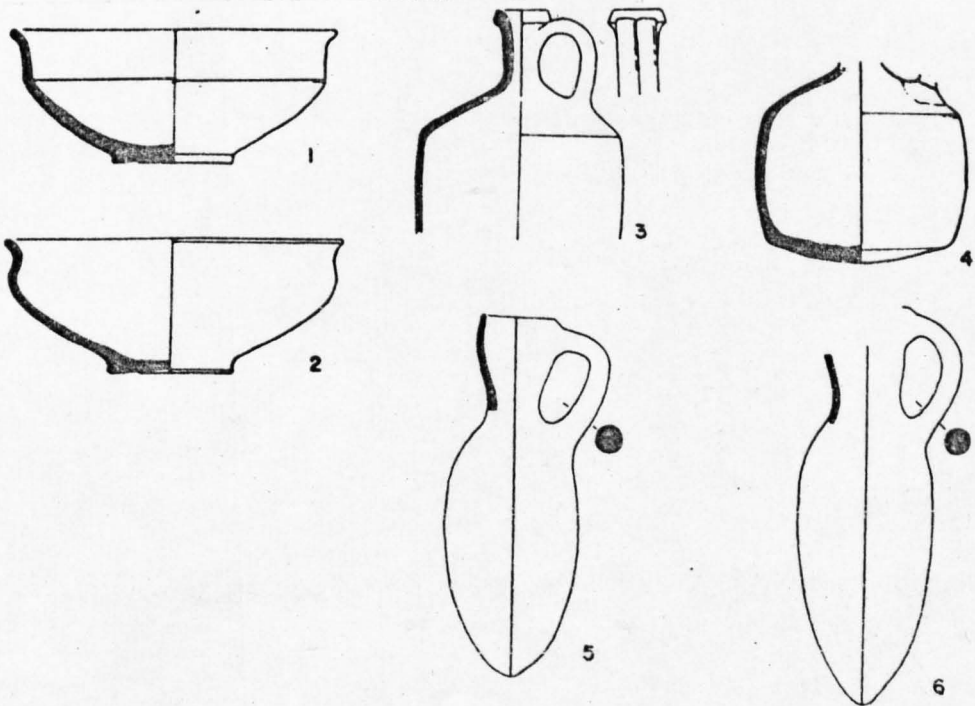
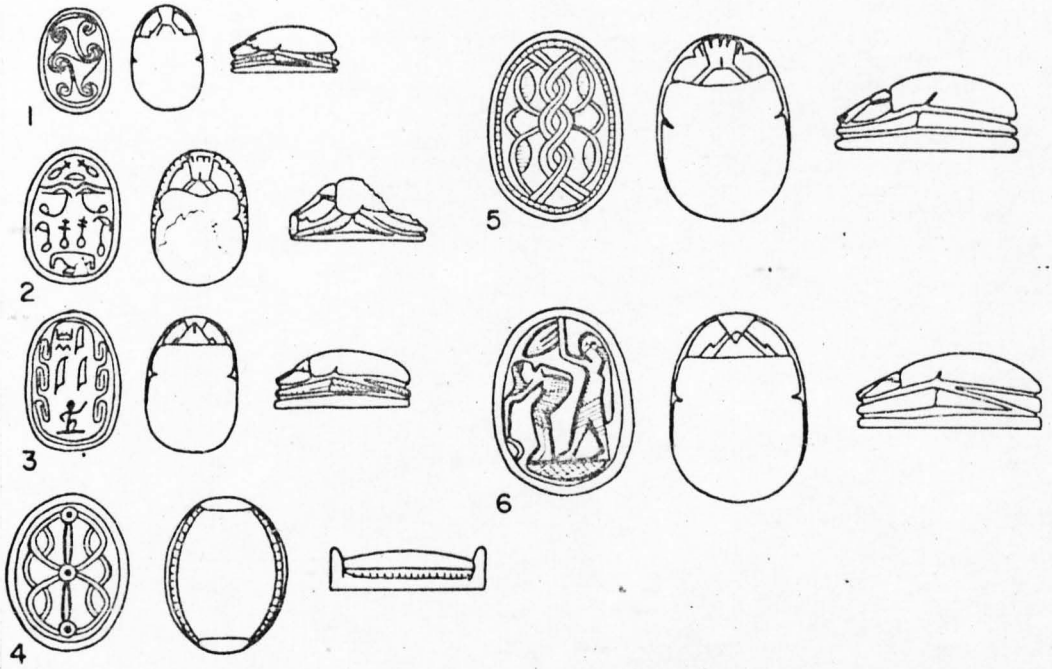
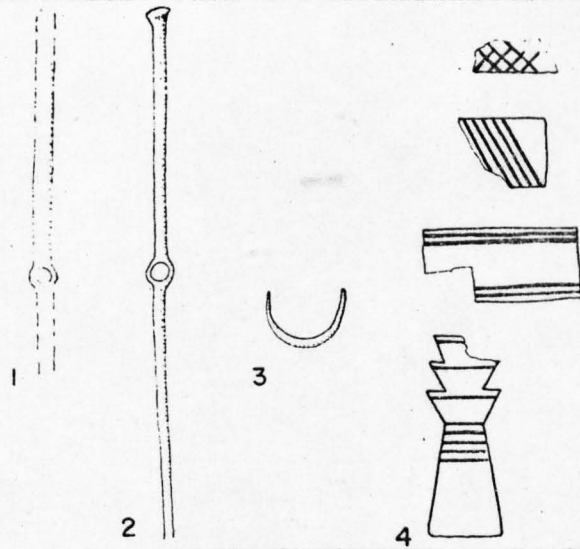


FIG. 56B



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FIG. 57A

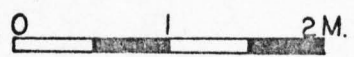
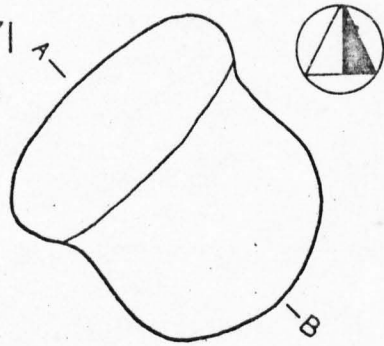


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FIG. 57B



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Plan



Section

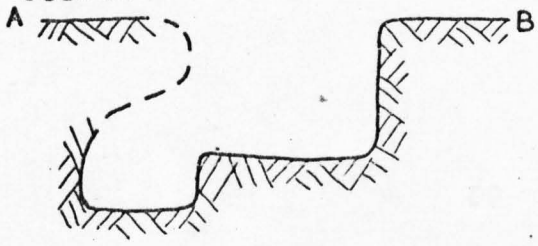
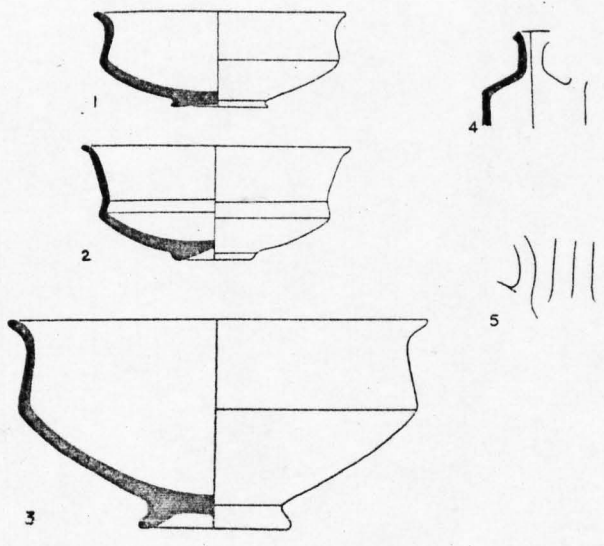


FIG. 58A



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FIG. 58B

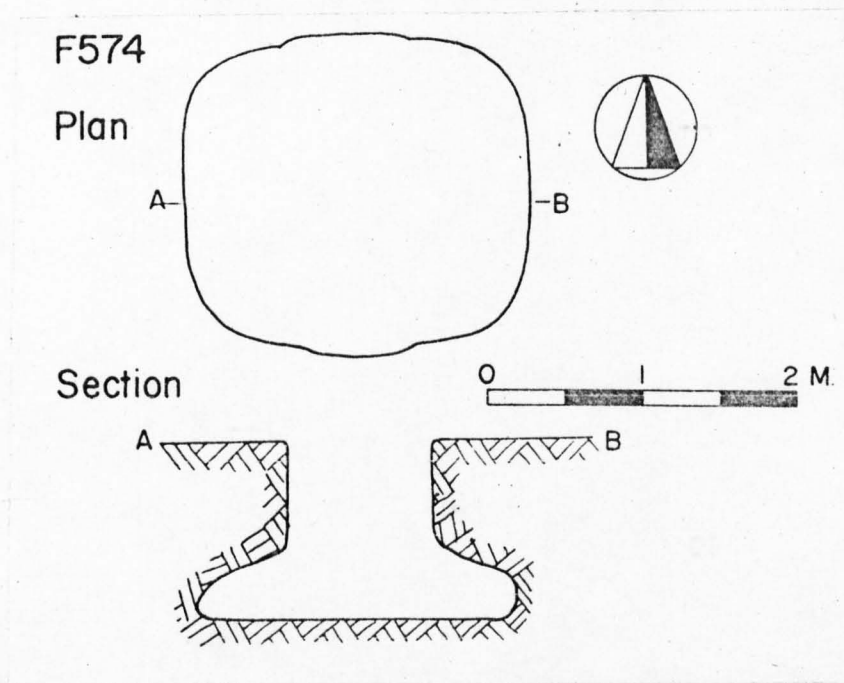
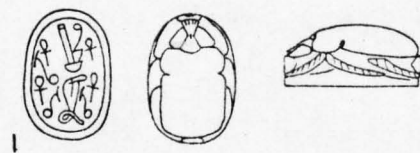


FIG. 59A



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FIG. 59B

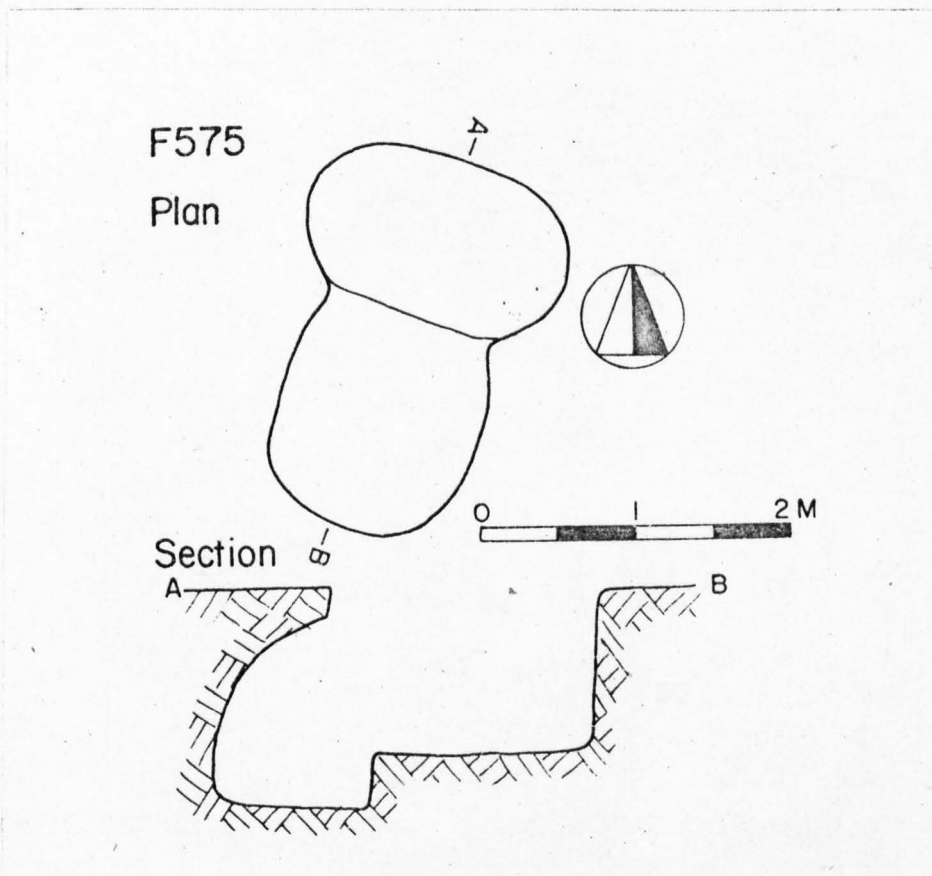


FIG. 60A

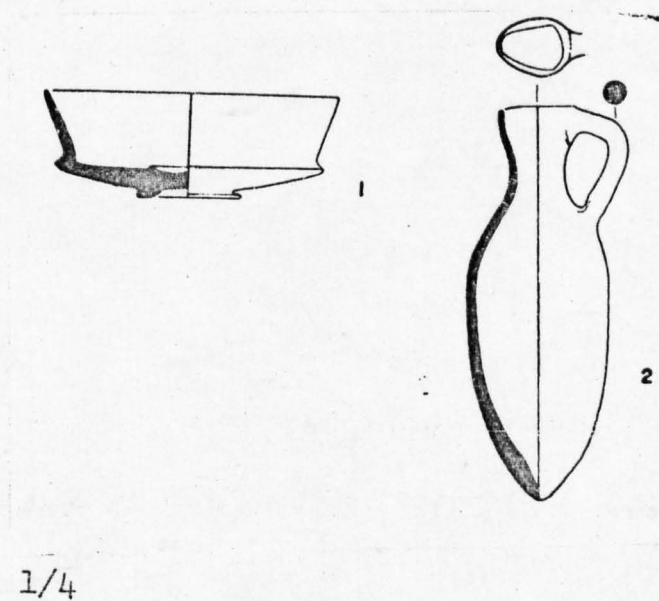


FIG. 60B

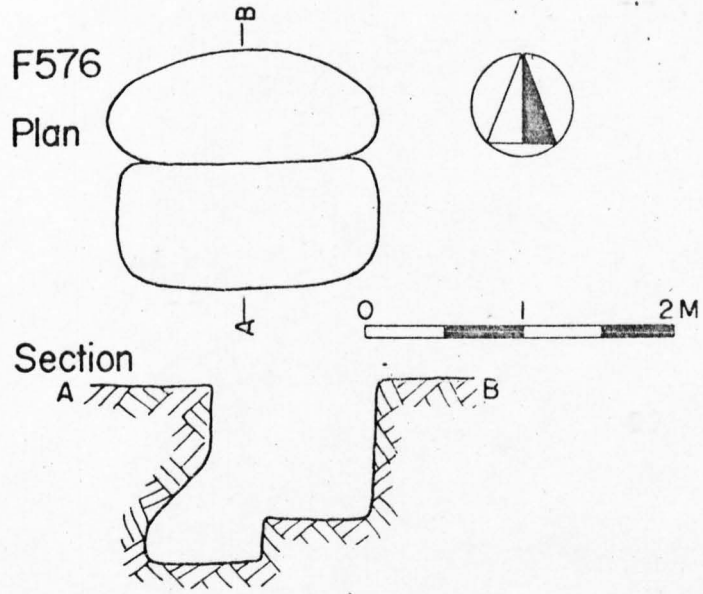


FIG. 61

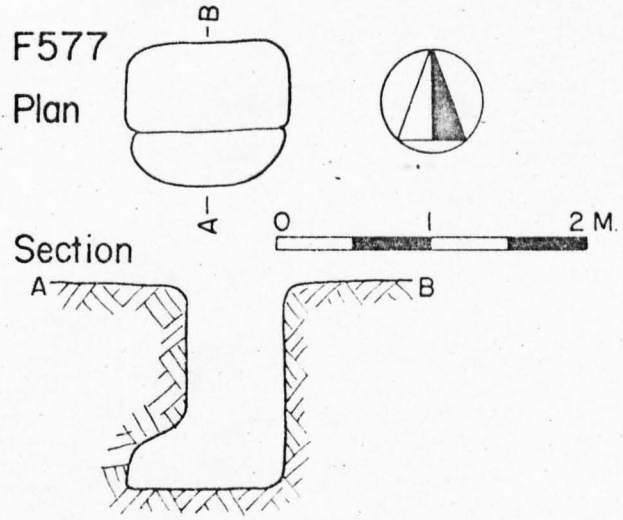
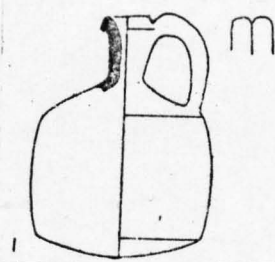


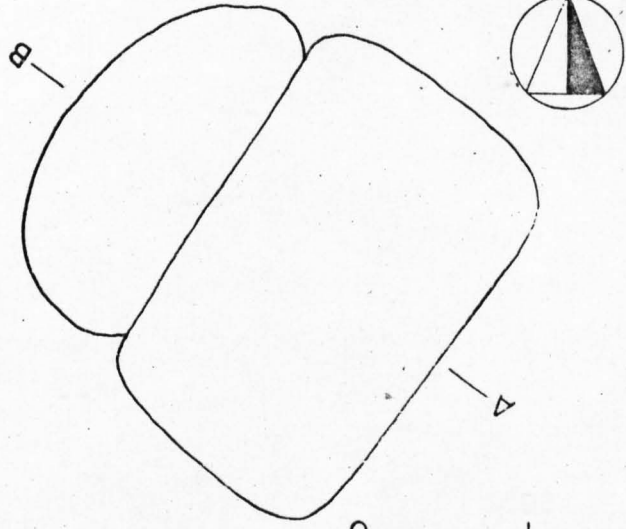
FIG. 62A



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FIG. 62B

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Plan



Section

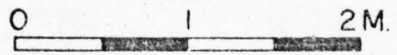
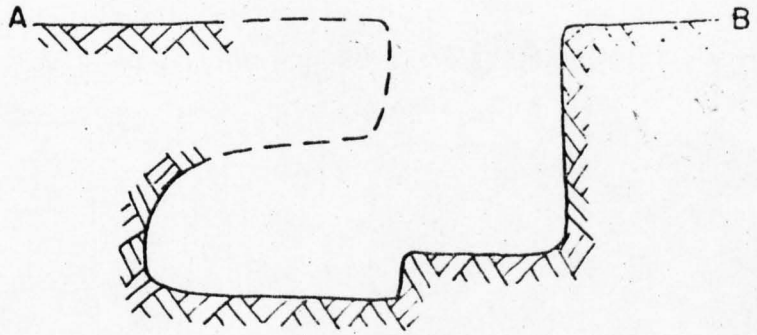


FIG. 63



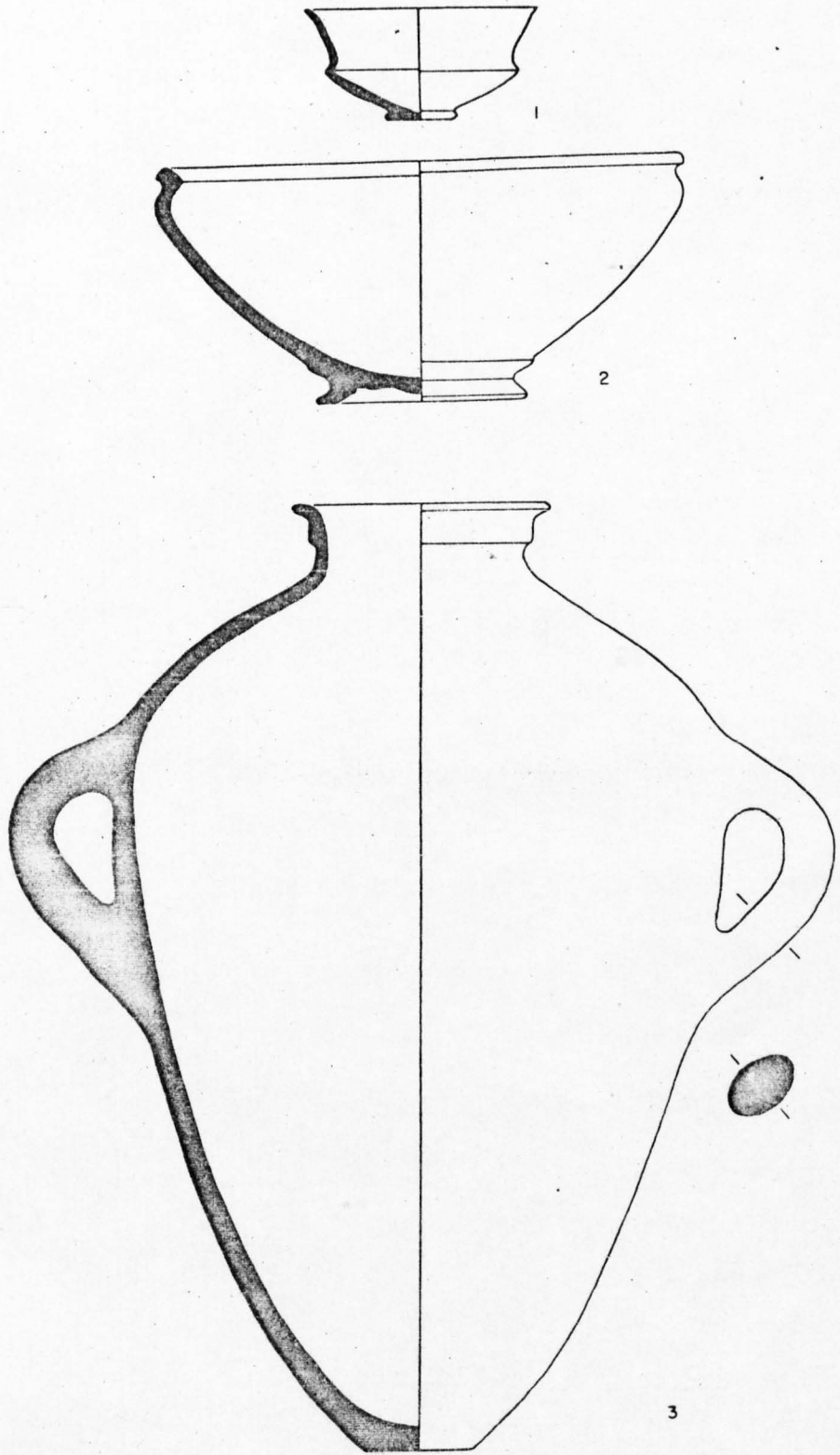
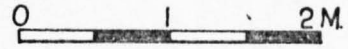
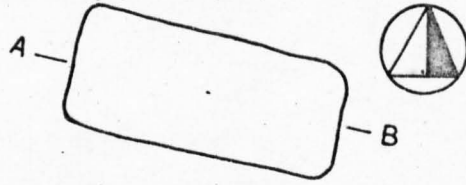


FIG. 64



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Plan



Section

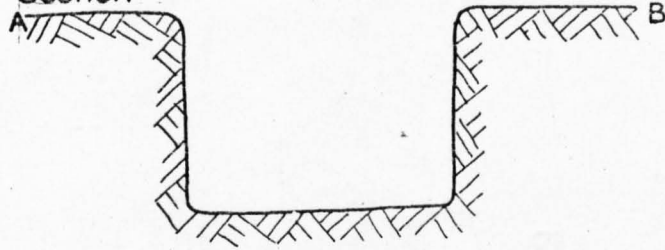
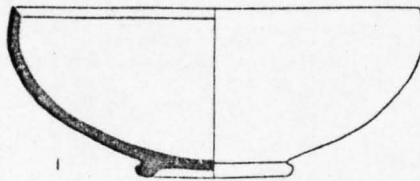


FIG. 65A



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FIG. 65B

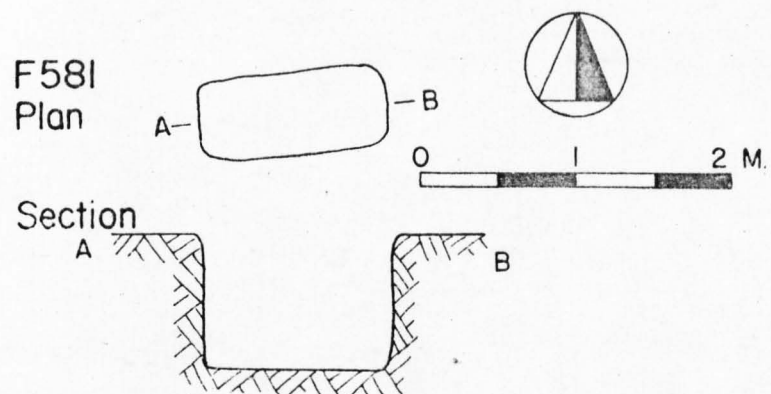
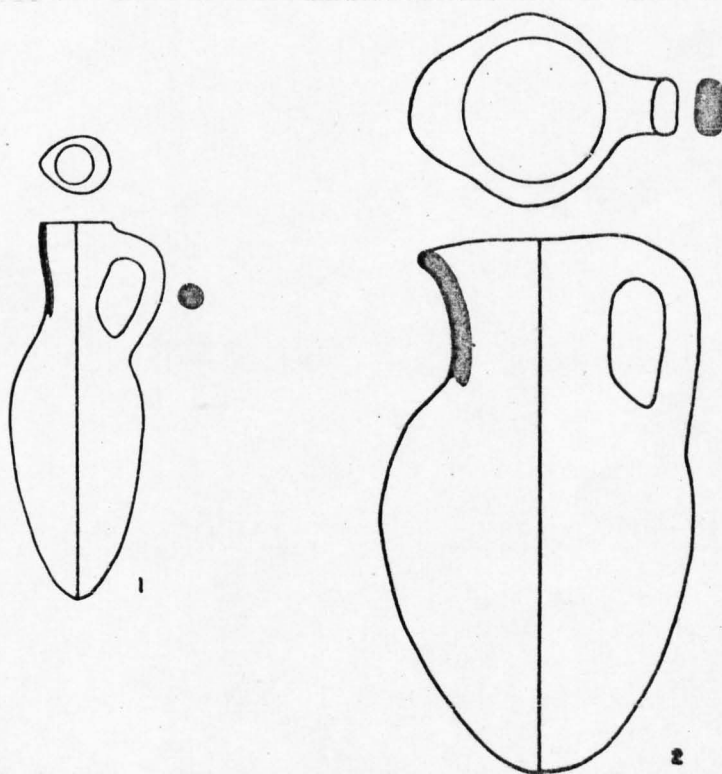


FIG.66A

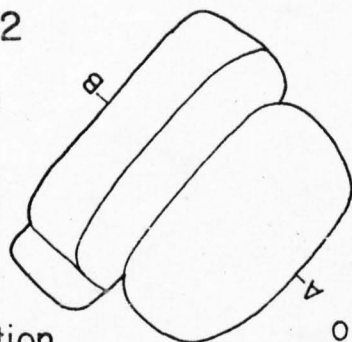


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FIG.66B

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Plan



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0 1 2 M.

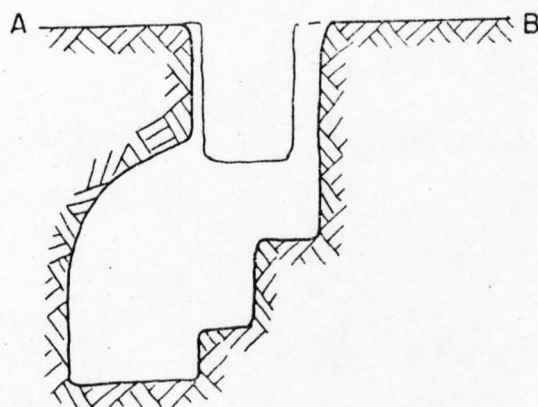
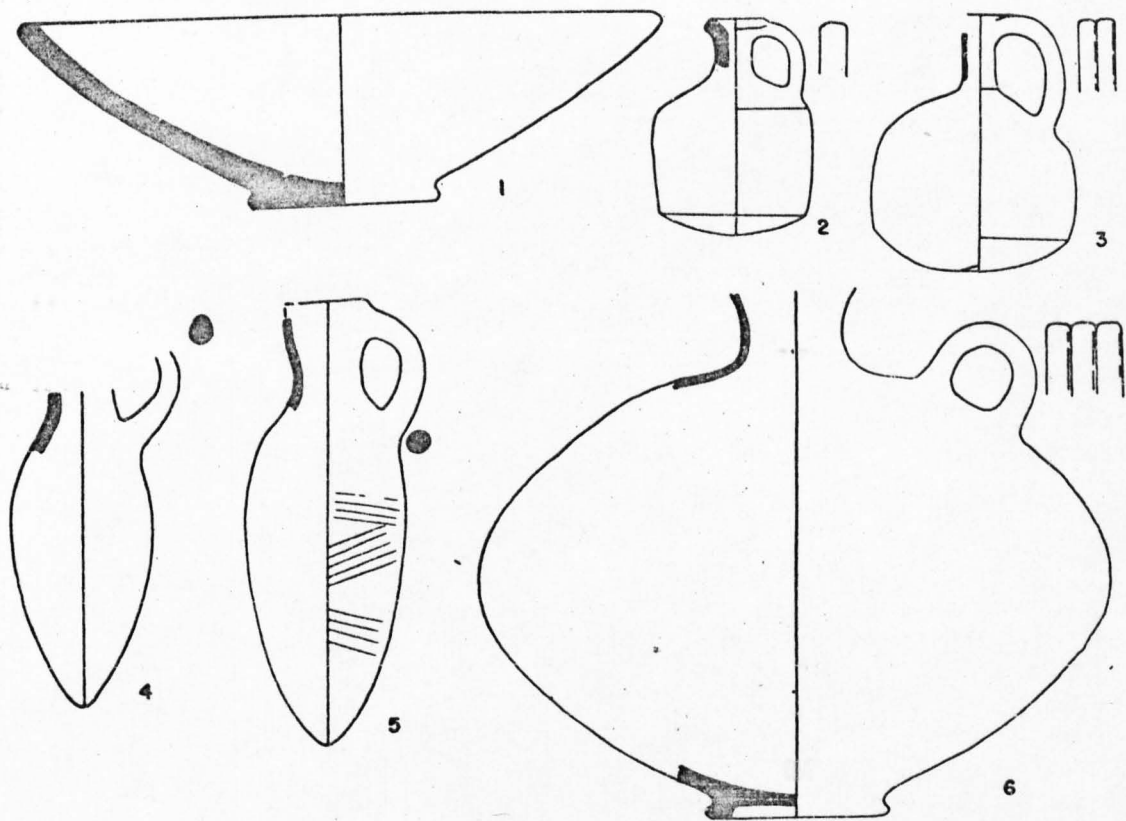
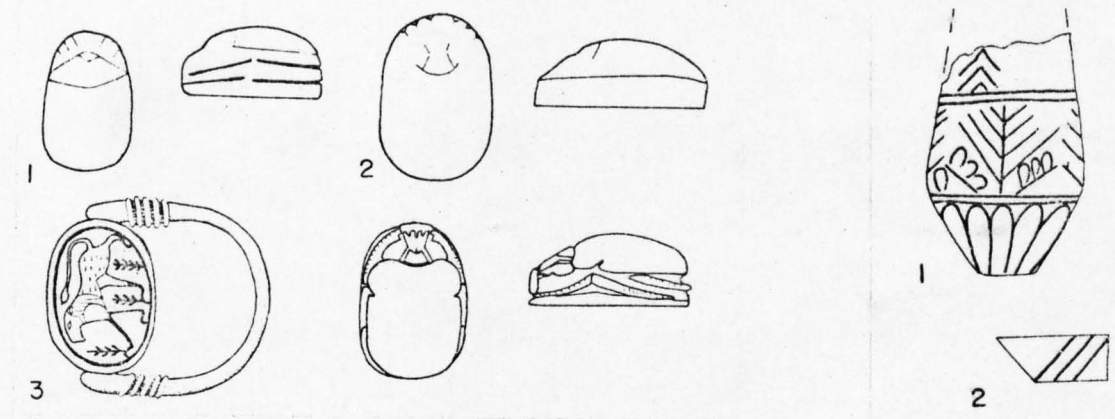


FIG. 67



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FIG.68A



1/1

1/2

FIG.68B & C

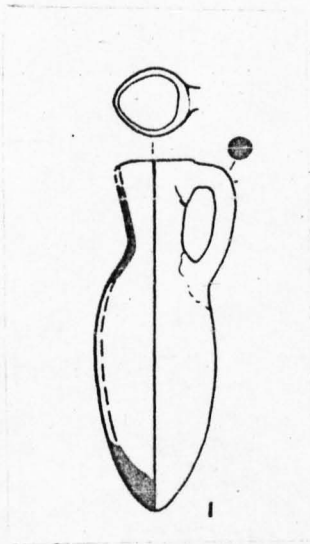


FIG. 69



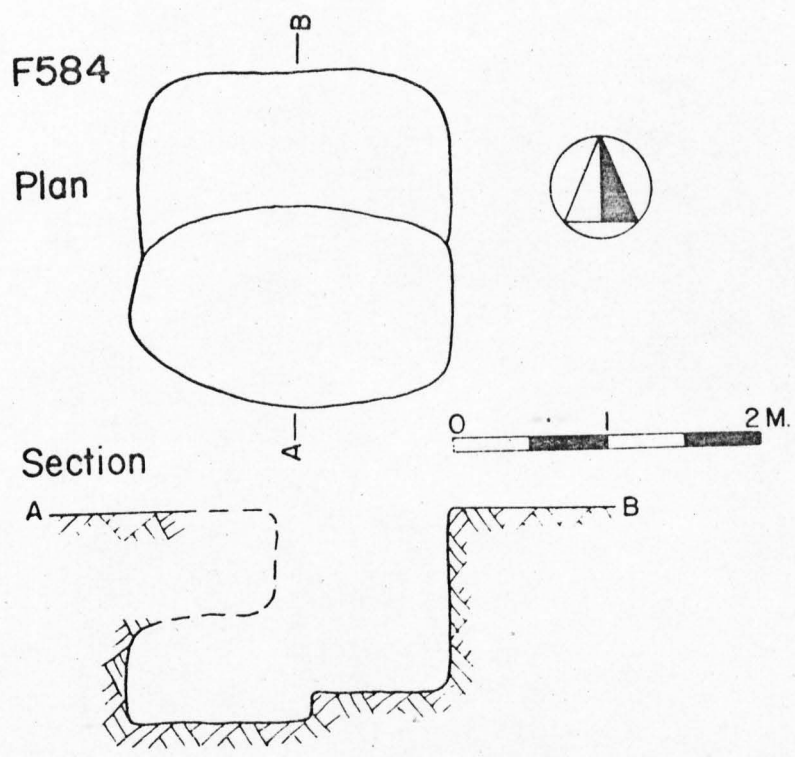
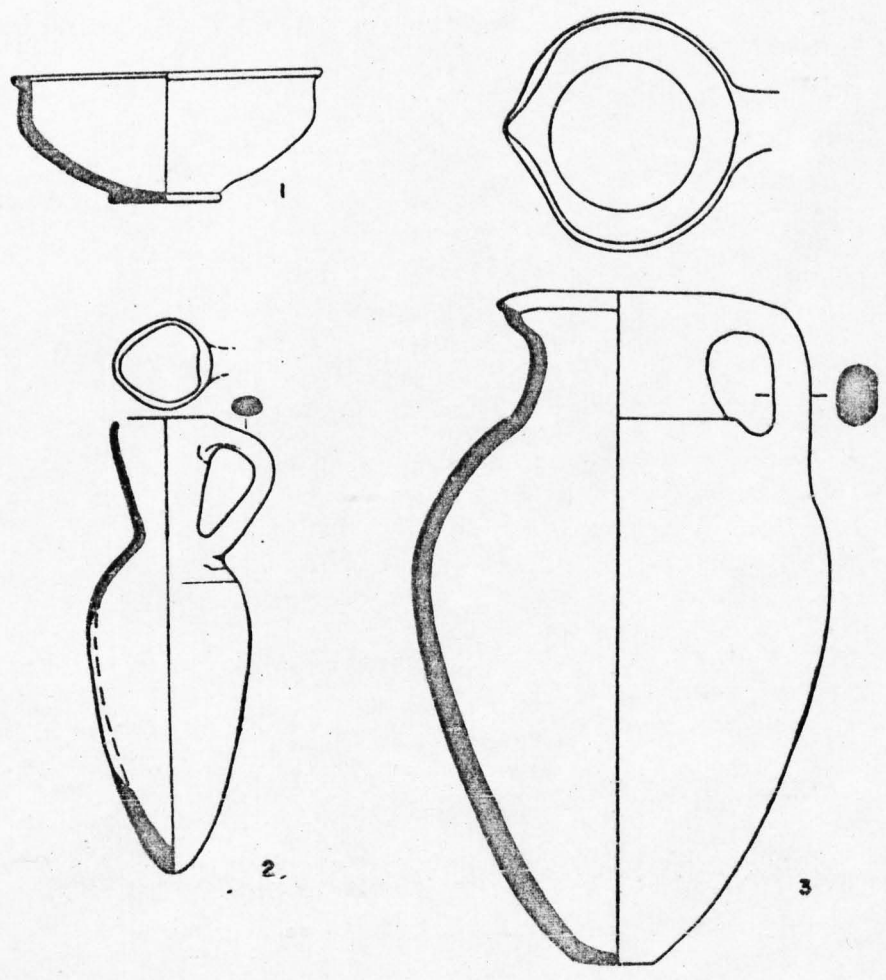
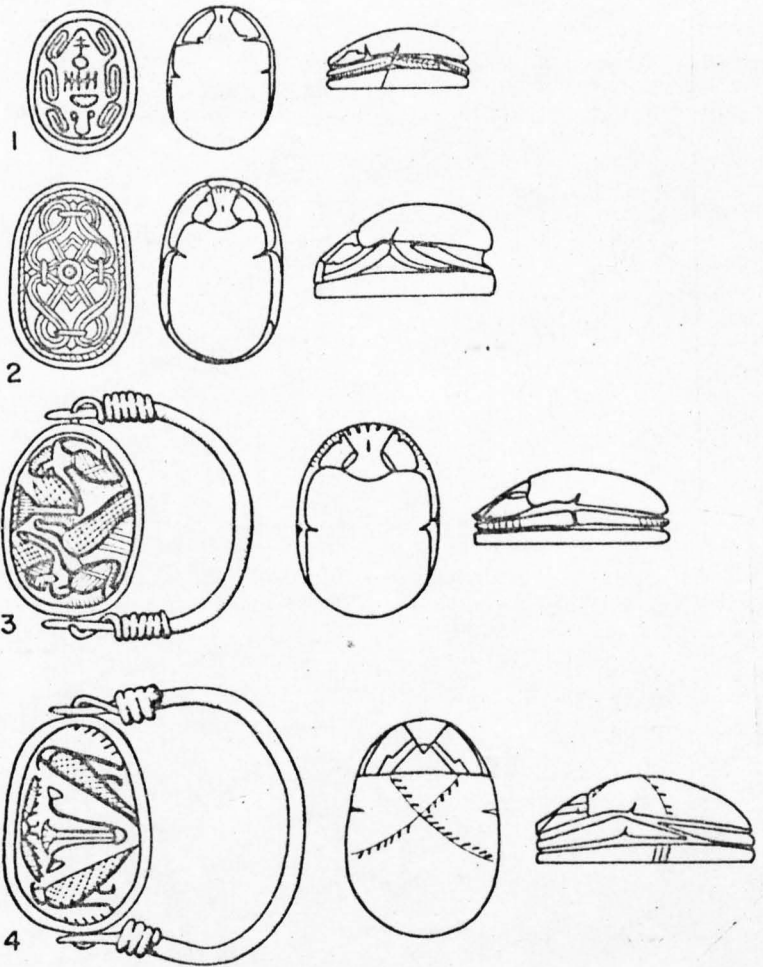


FIG. 70A



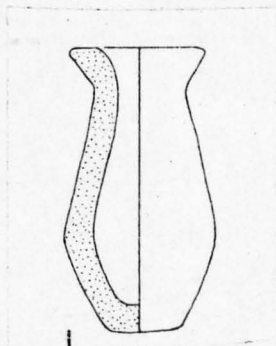
1/4

FIG. 70B



1/1

FIG. 71A



1/2

FIG. 71B



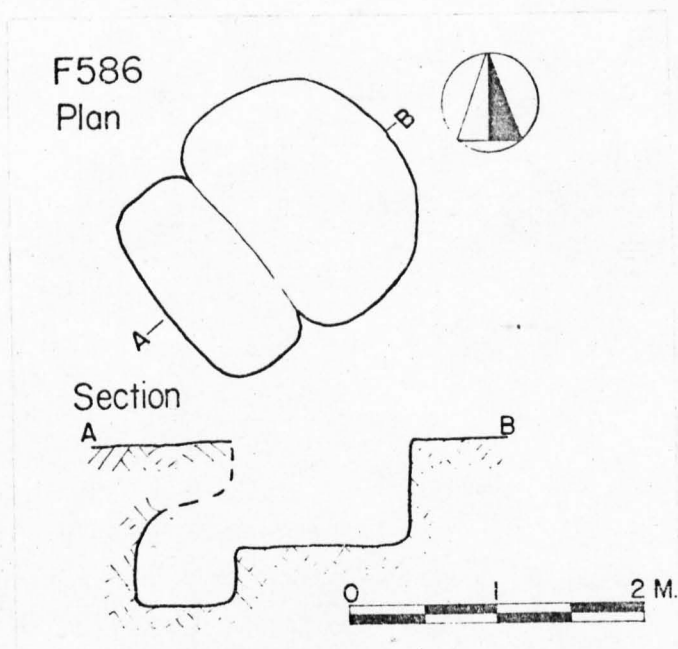
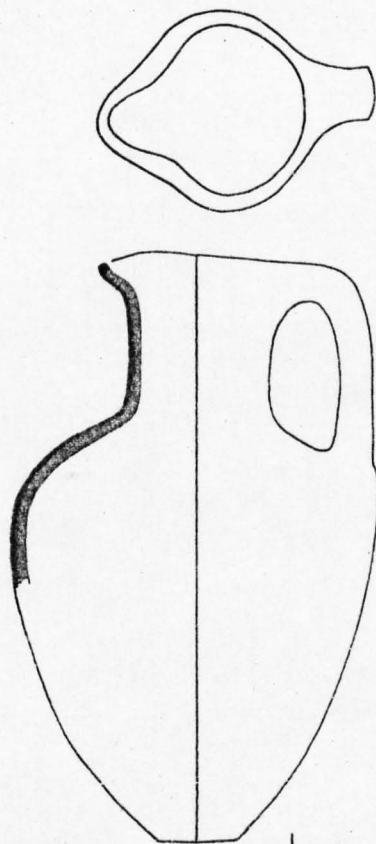


FIG. 72A



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FIG. 72B

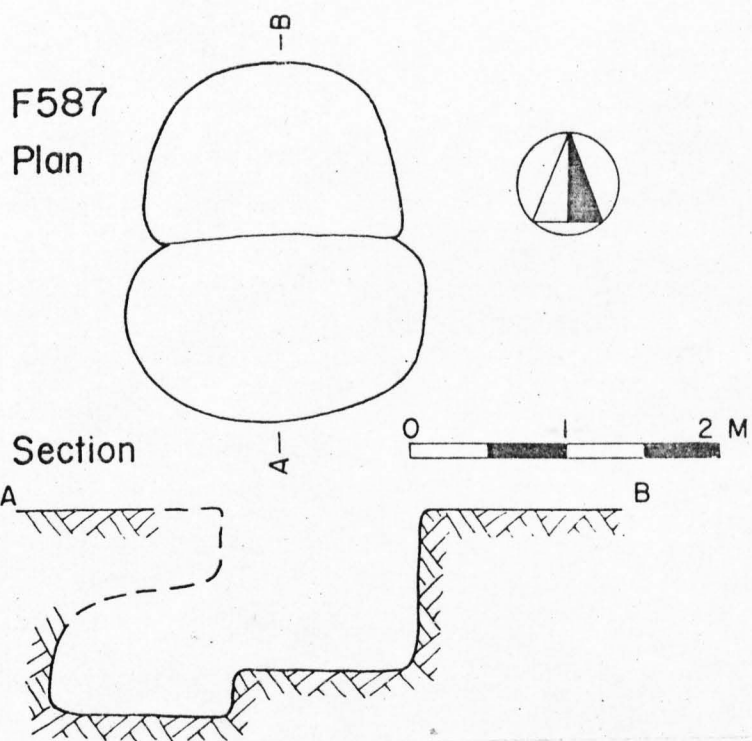
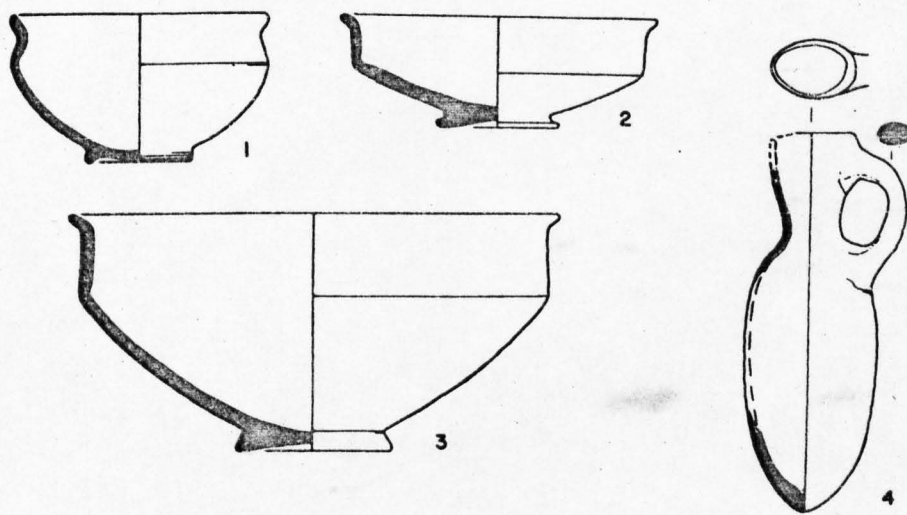
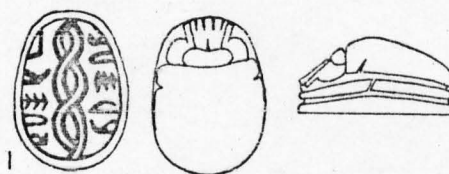


FIG. 73A



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FIG. 73B



1/1

FIG. 73C

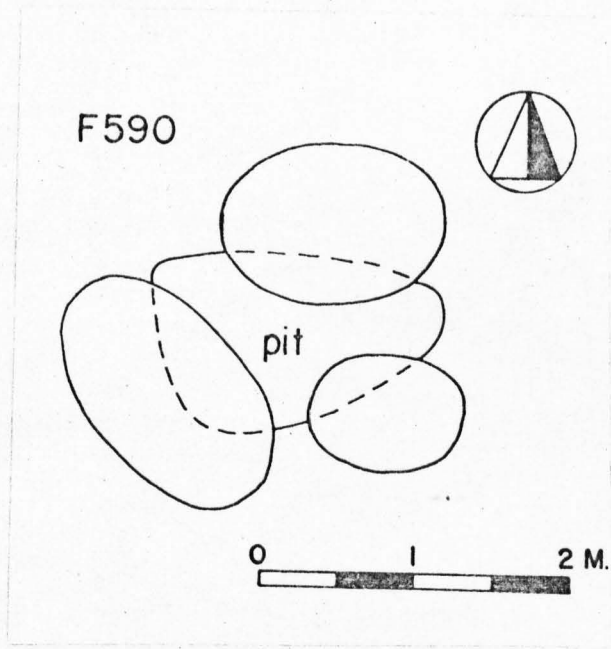
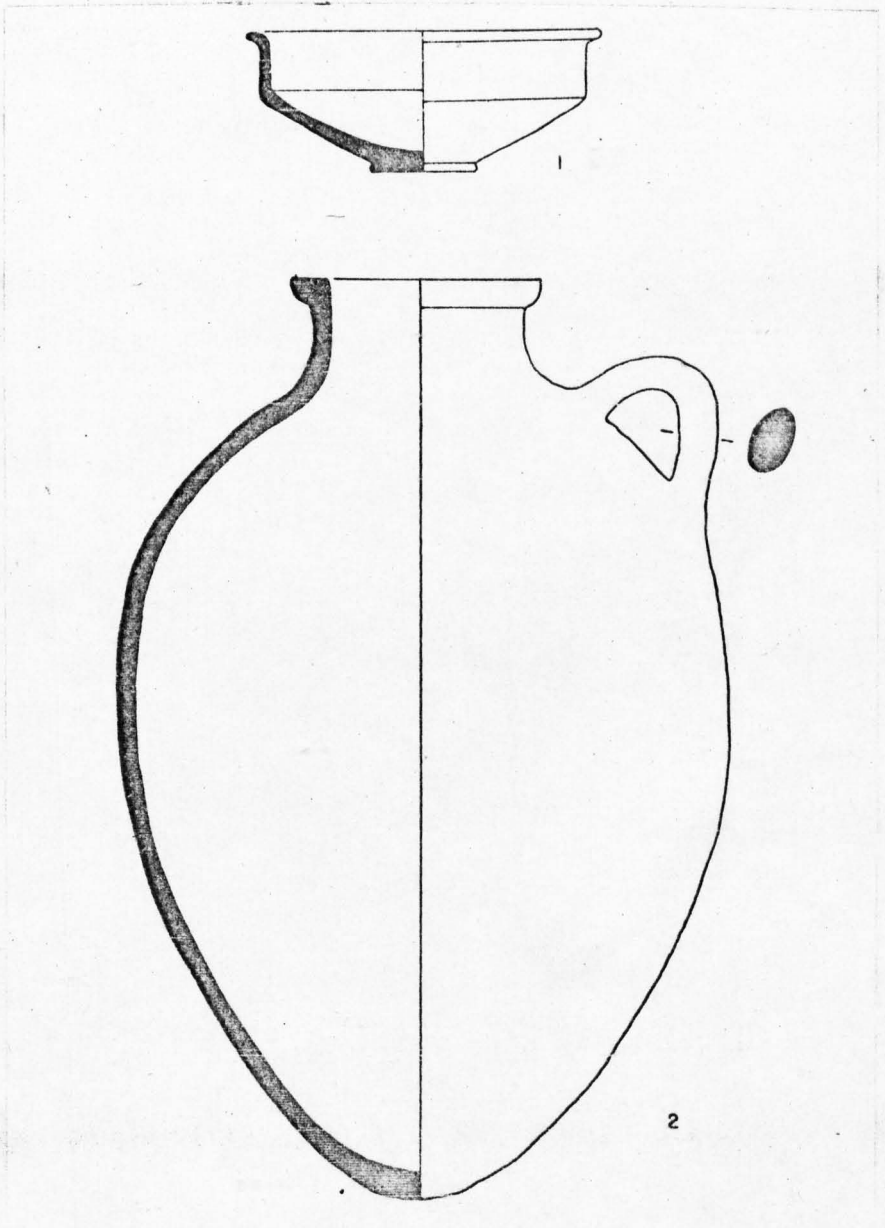
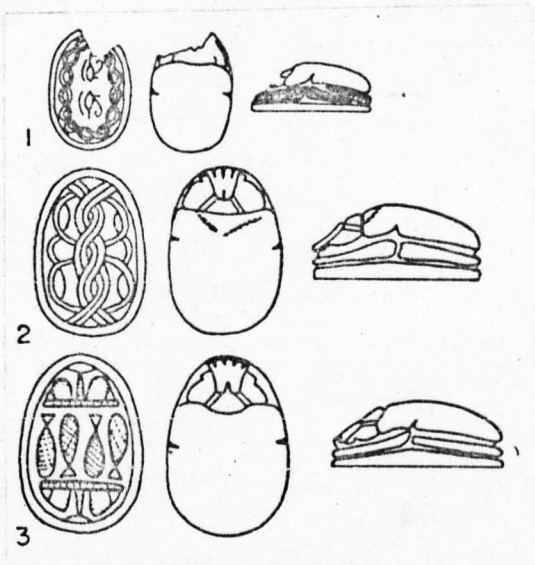


FIG. 74A



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FIG. 74B



1/1

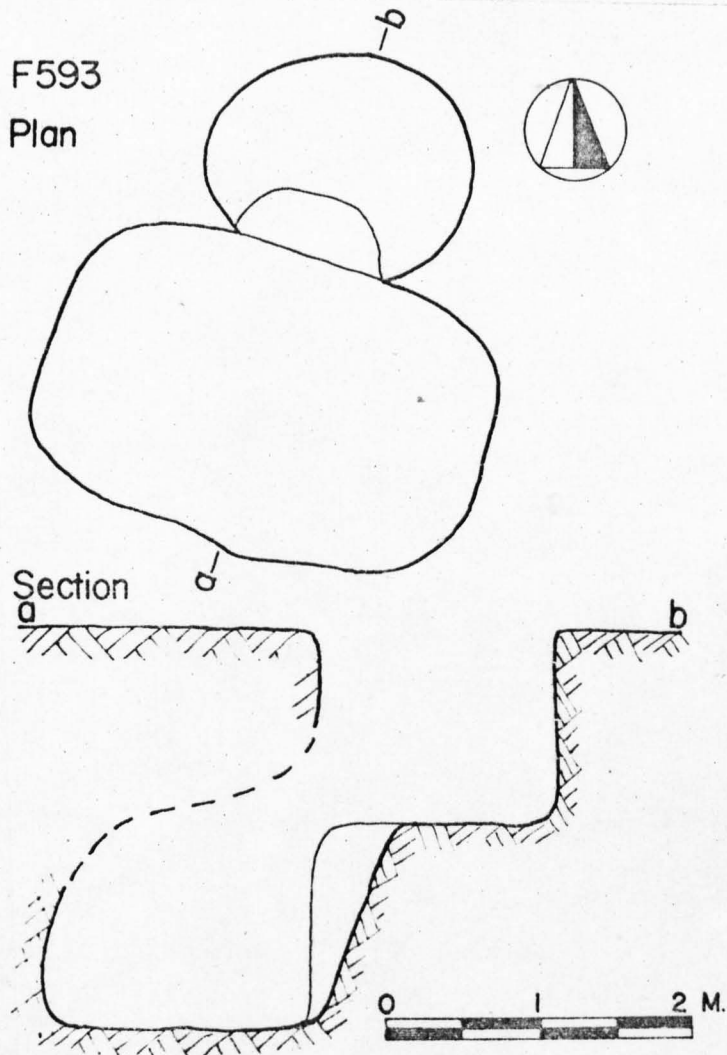
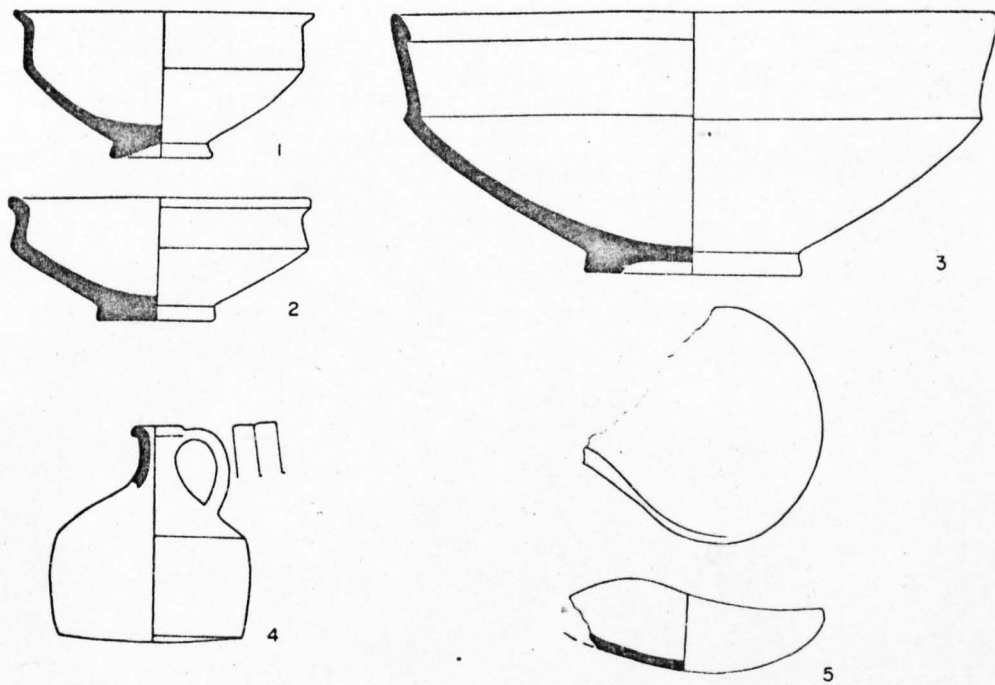


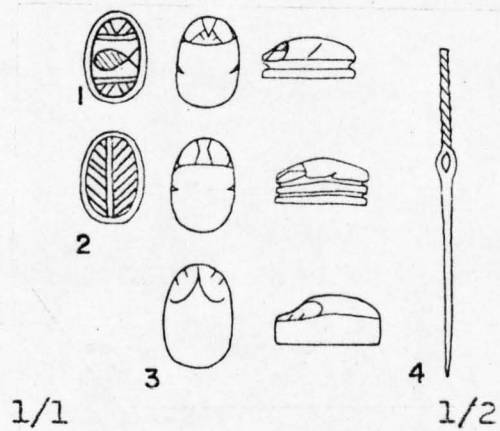
FIG.76





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FIG. 77A

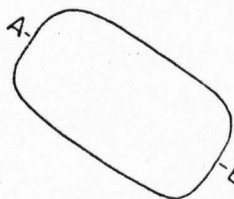


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1/2

FIG. 77B



F594  
Plan

0 1 2 M.

Section

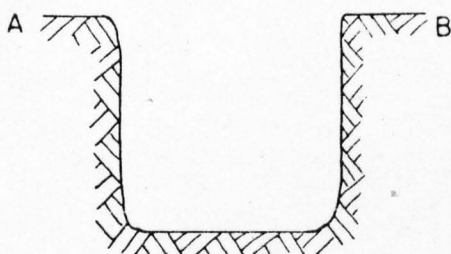
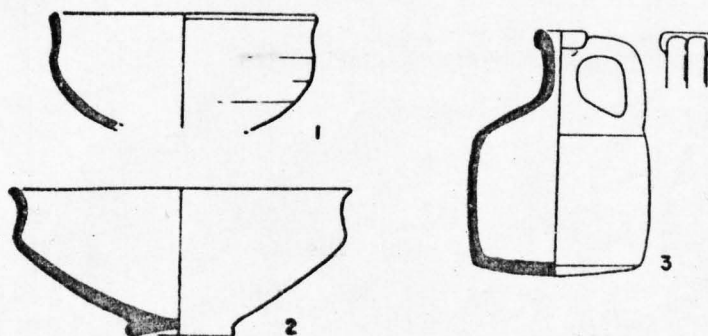


FIG. 78A



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FIG. 78B

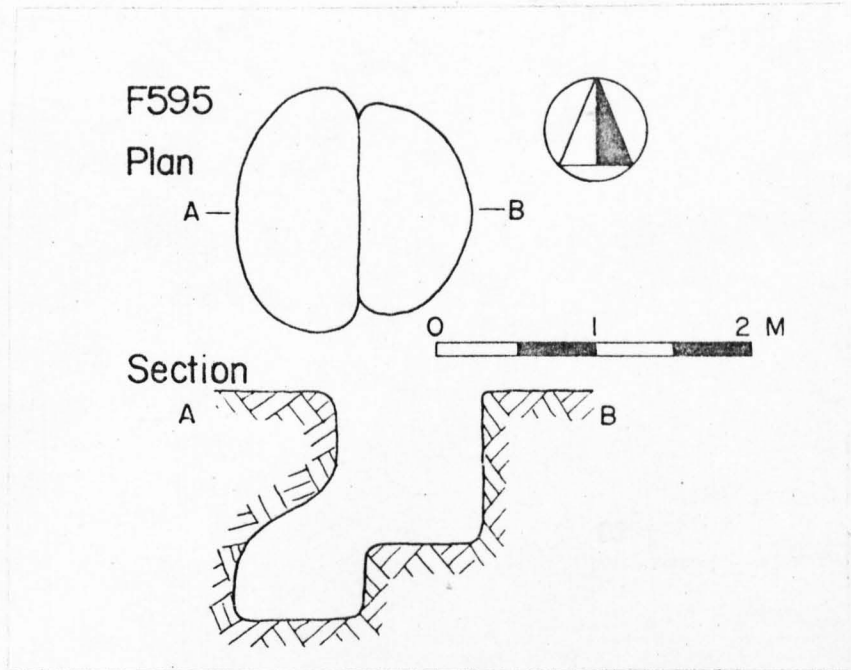
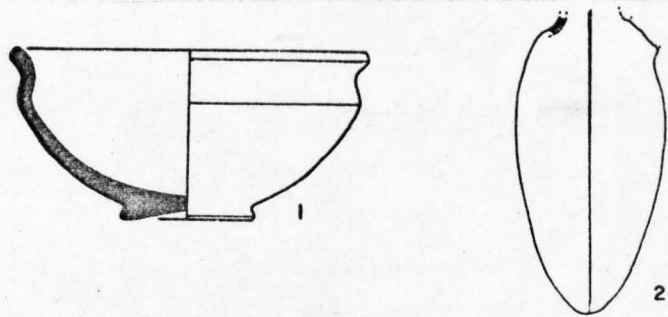


FIG.79A

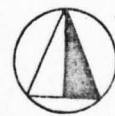
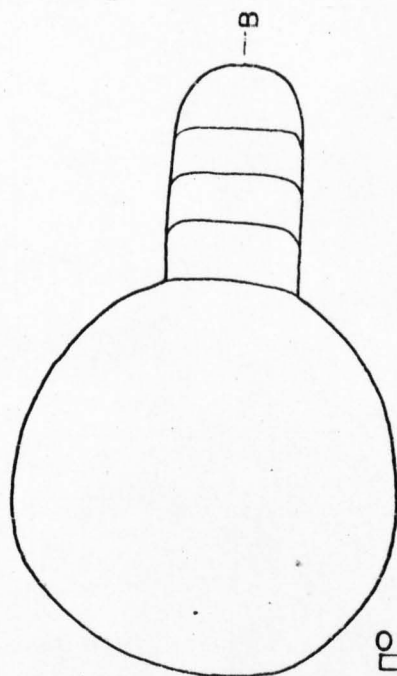


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FIG.79B

F596

Plan



Section

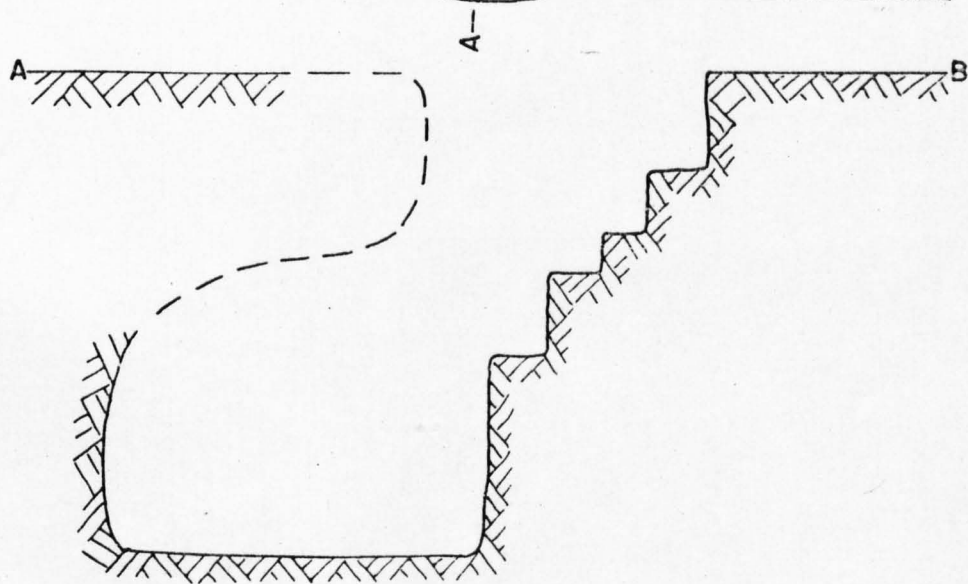
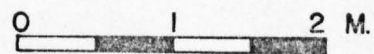
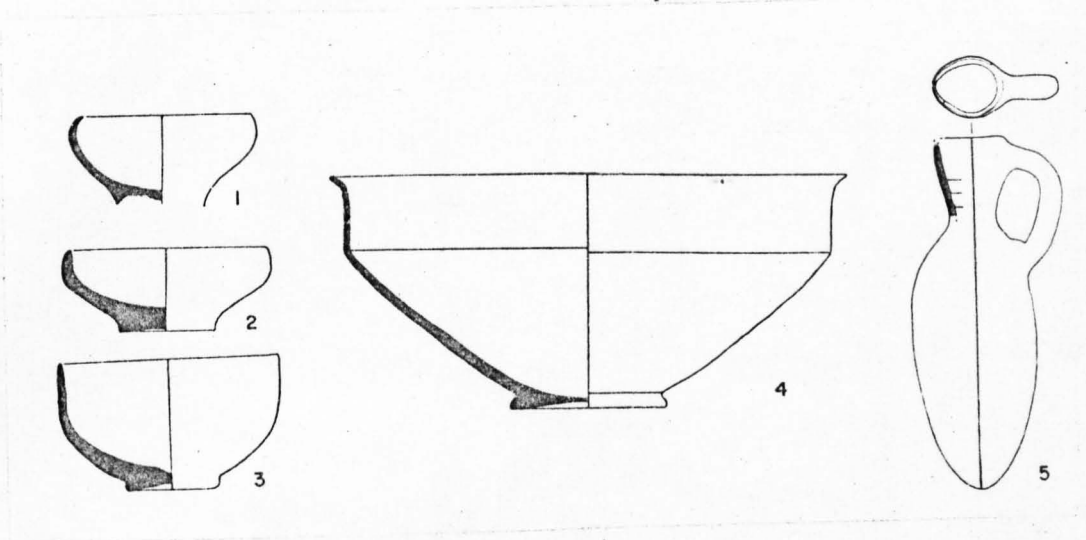
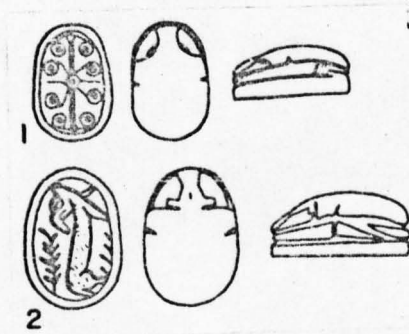


FIG. 80



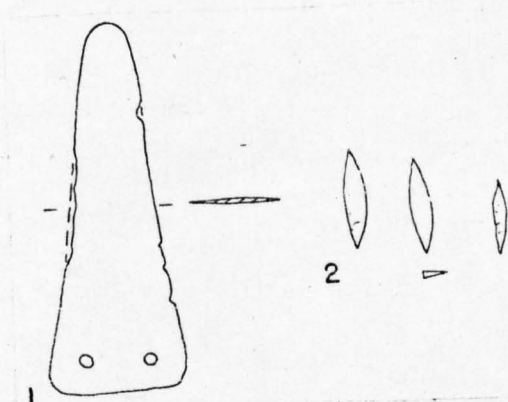
1/4

FIG. 81A



1/1

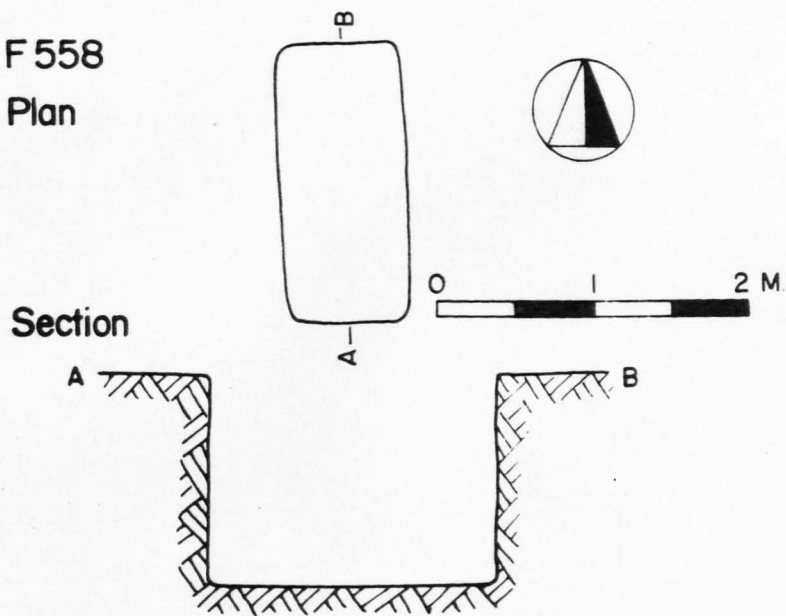
FIG. 81B



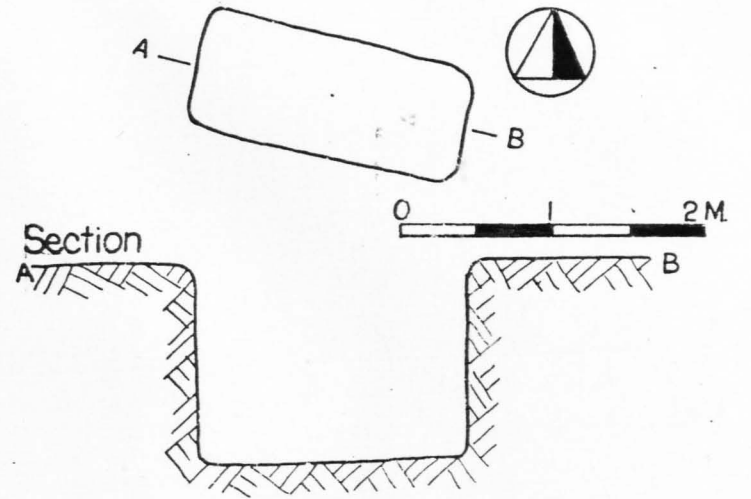
1/2

FIG. 81C

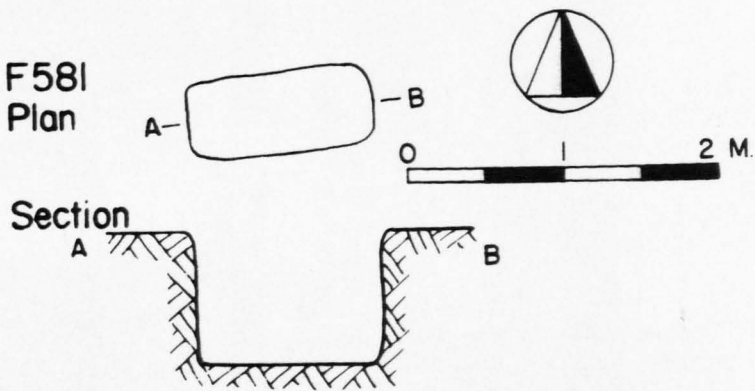
F 558  
Plan



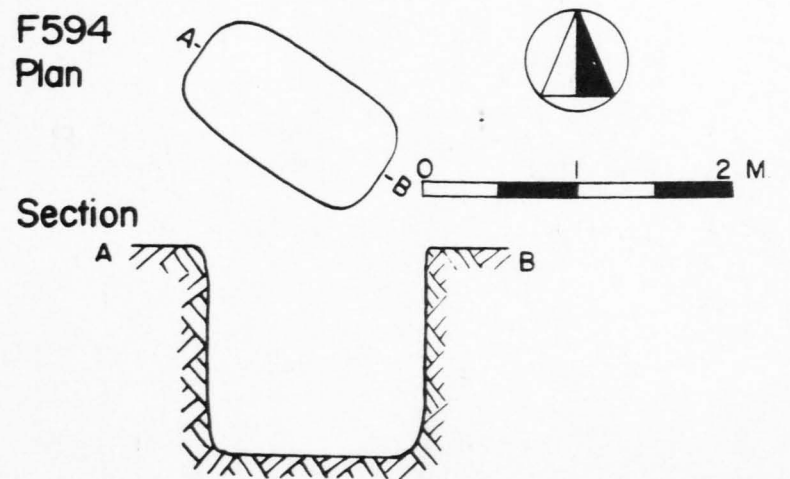
F579  
Plan



F581  
Plan



F594  
Plan





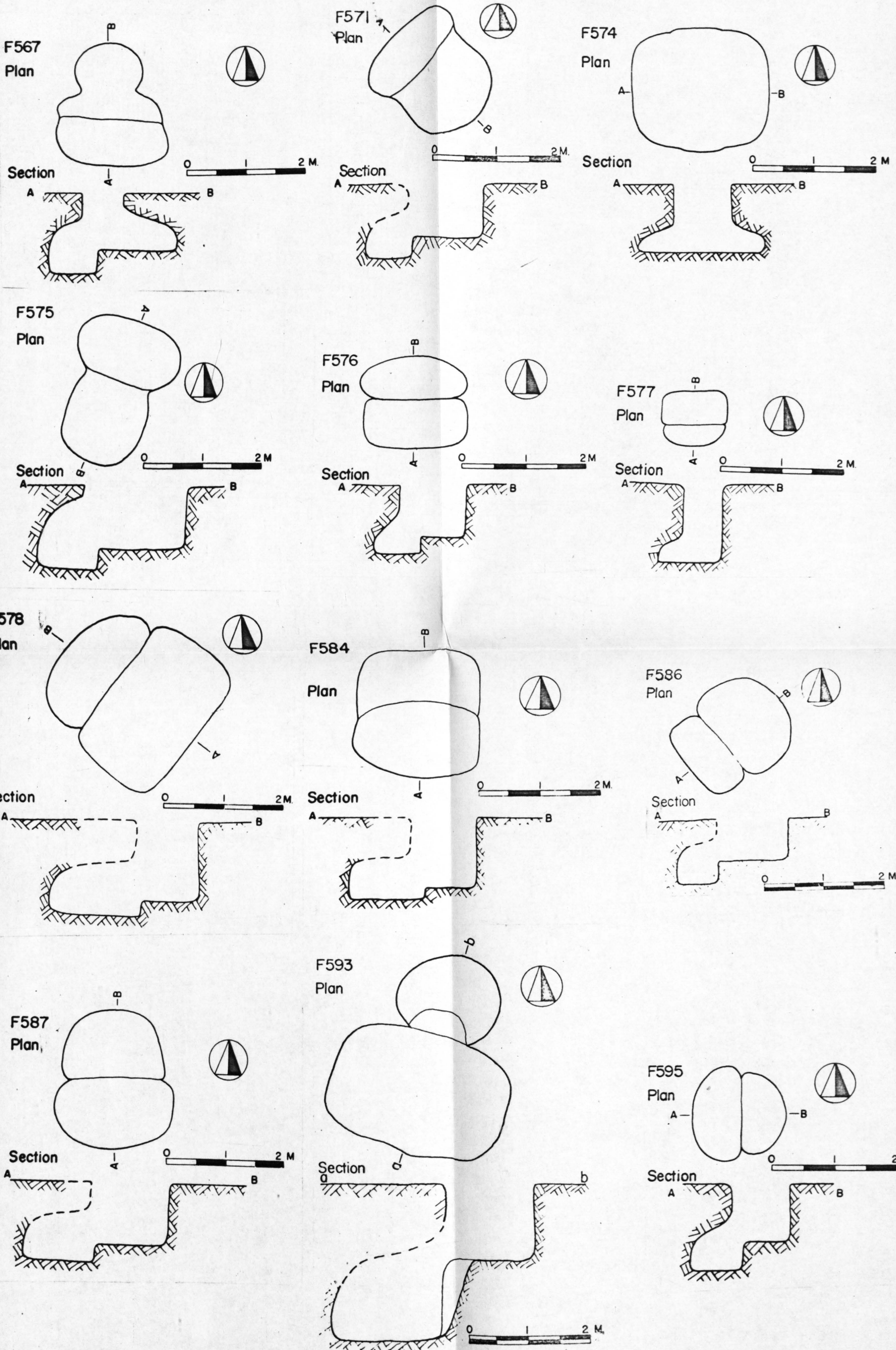
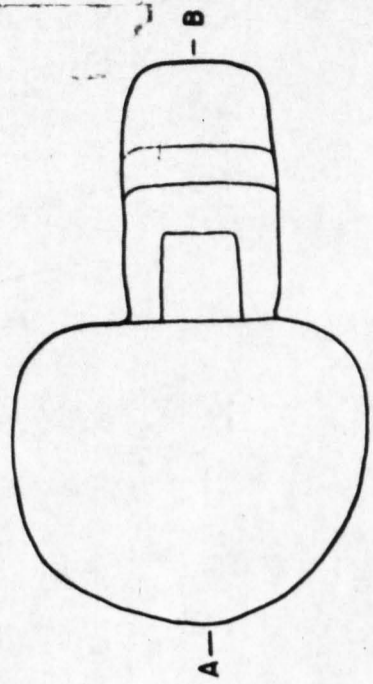


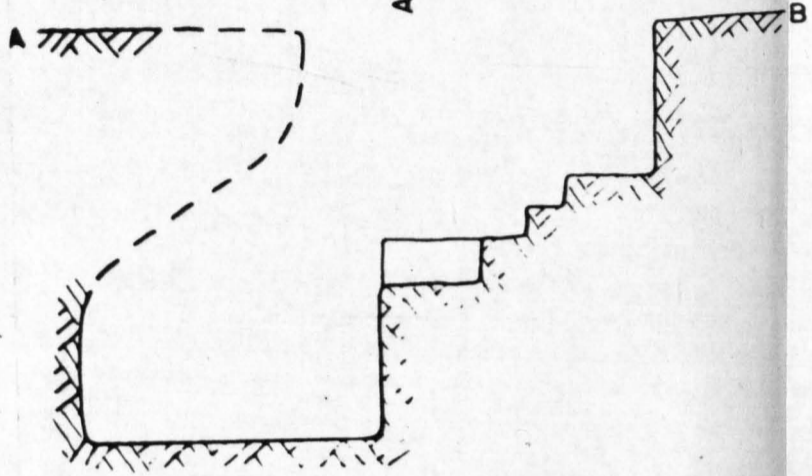
FIG. 83



F545  
Plan



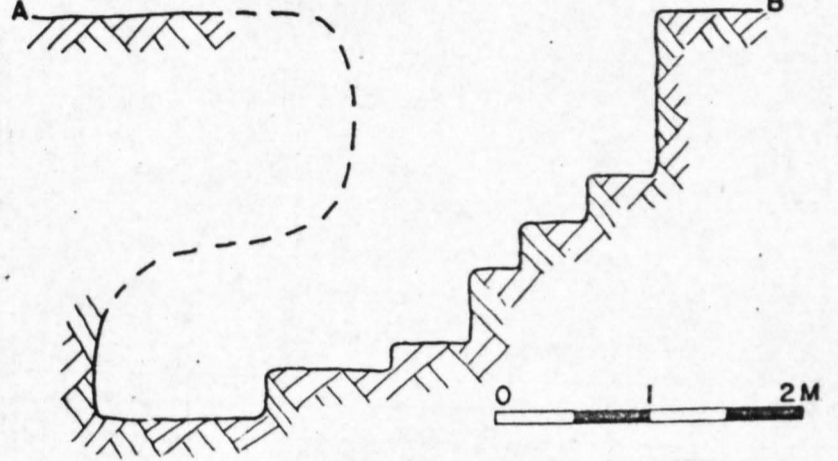
Section



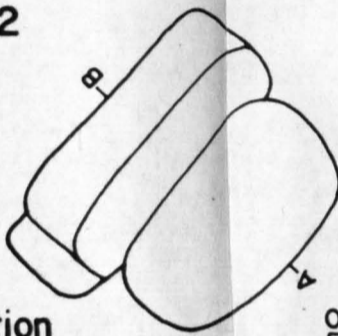
F563  
Plan



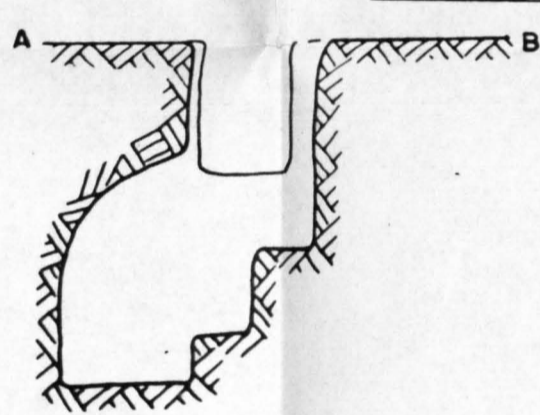
Section



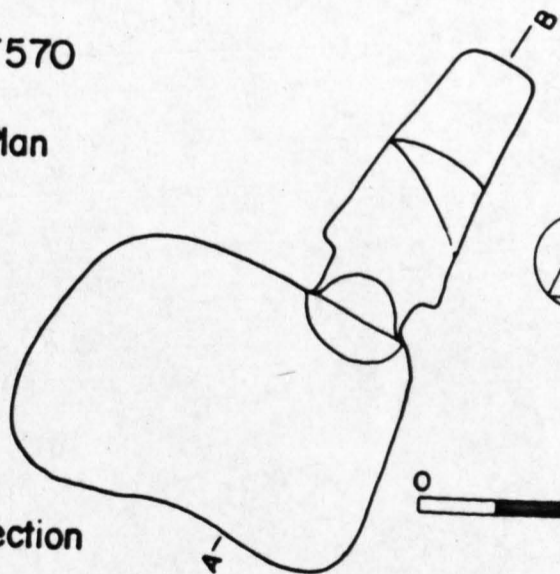
F582  
Plan



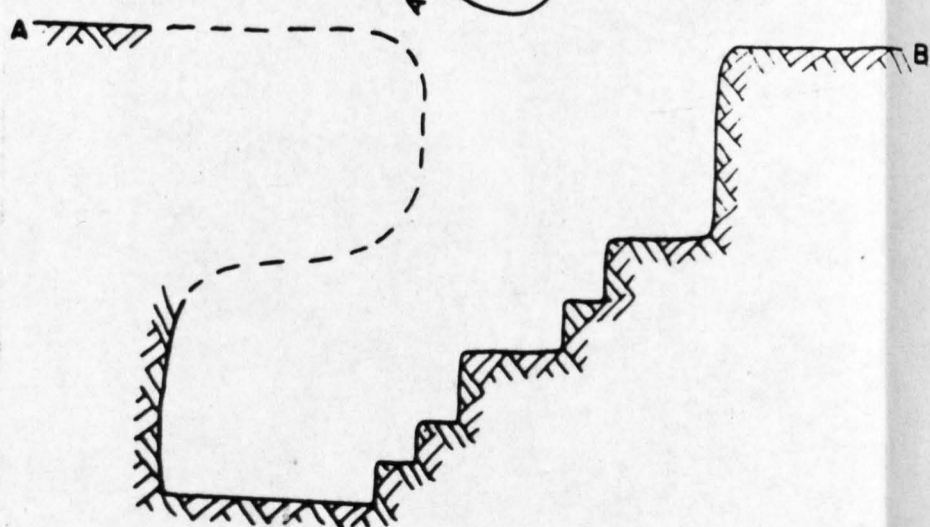
Section



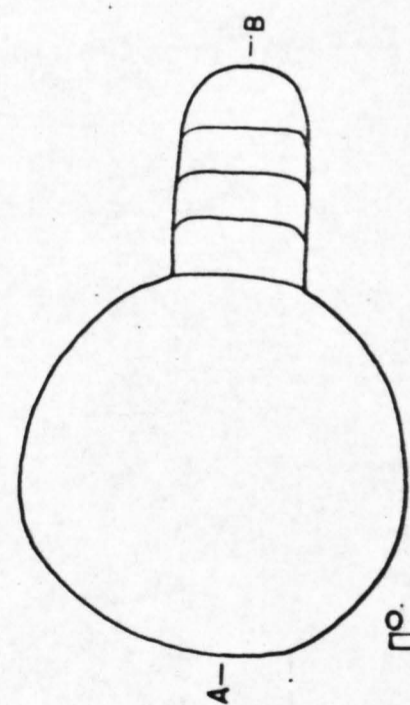
F570  
Plan



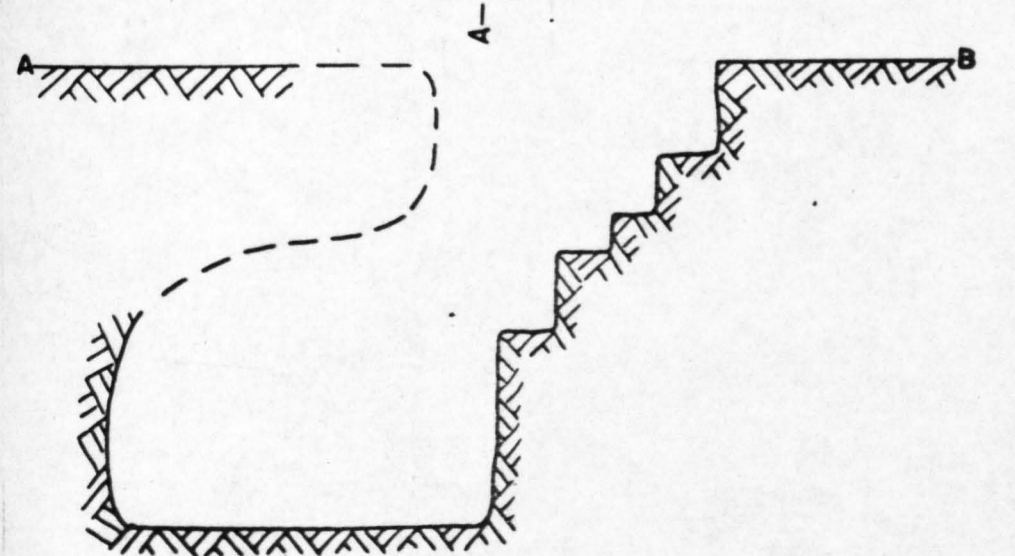
Section



F596  
Plan

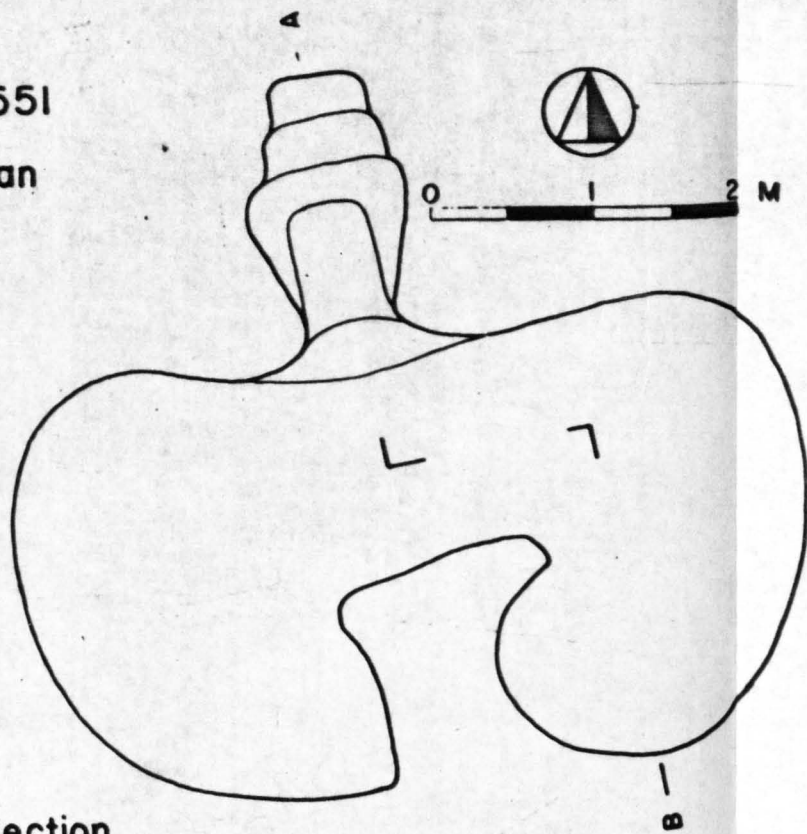


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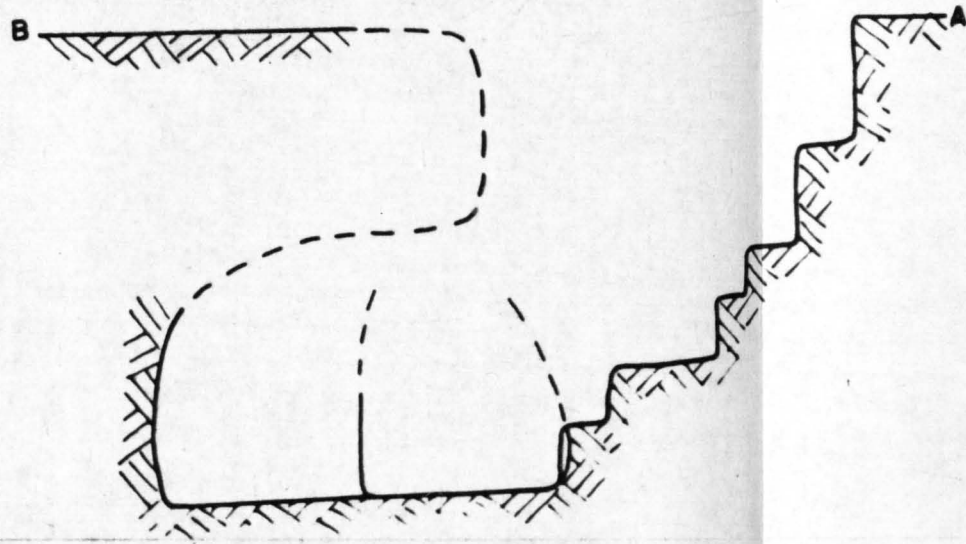




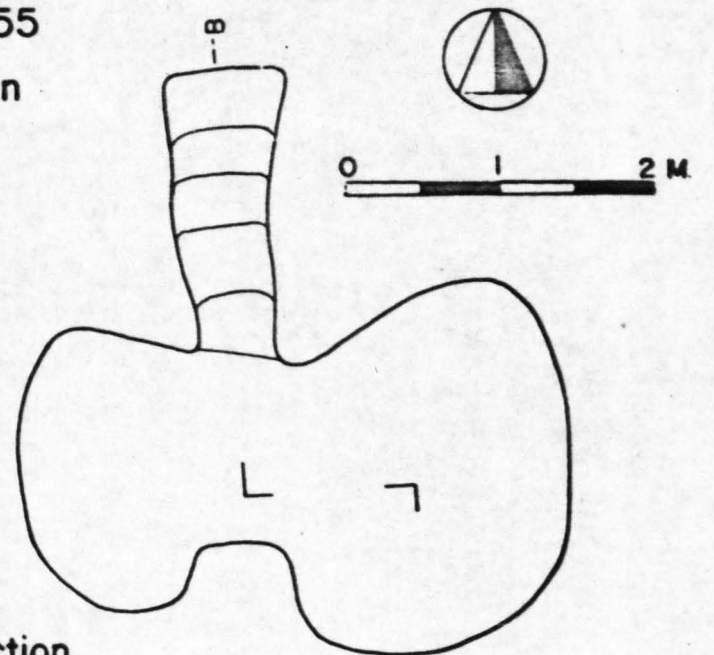
F551  
Plan



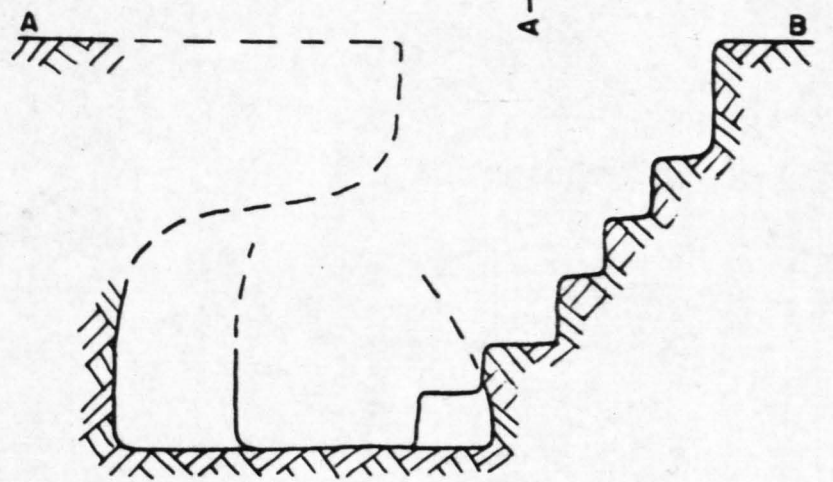
Section



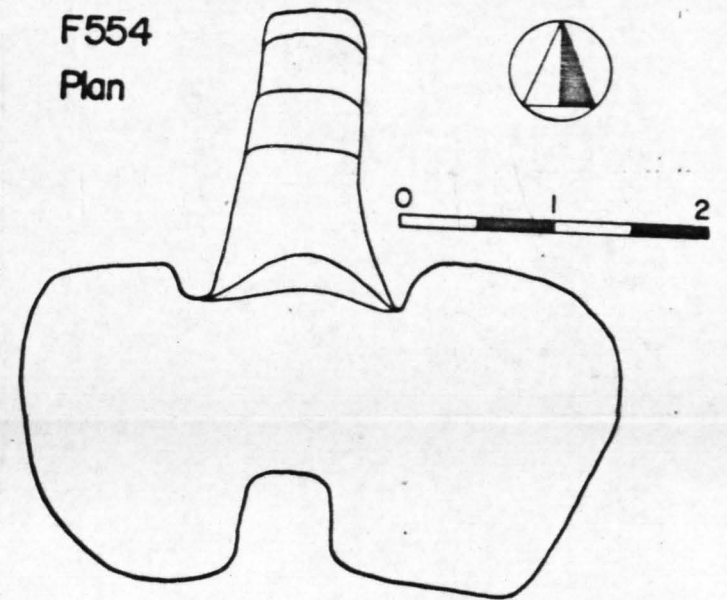
F555  
Plan



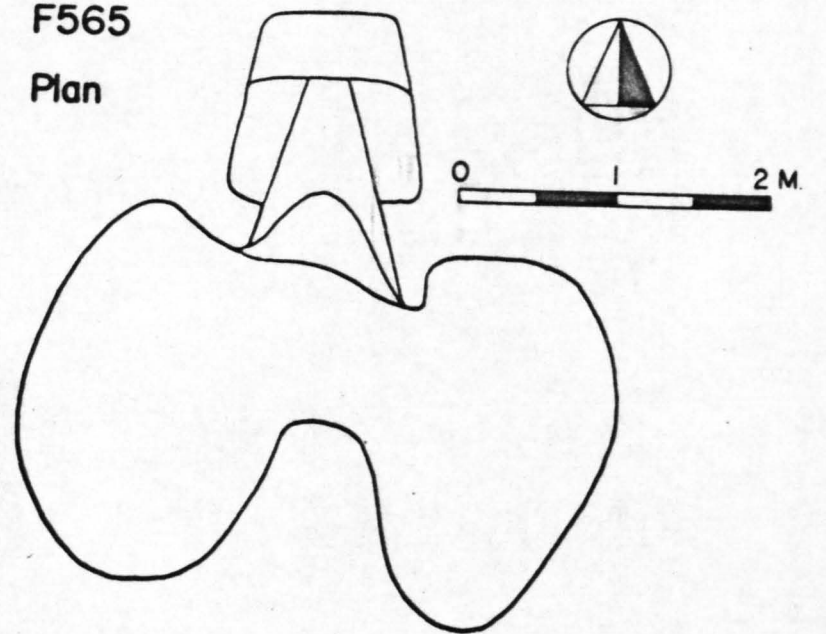
Section



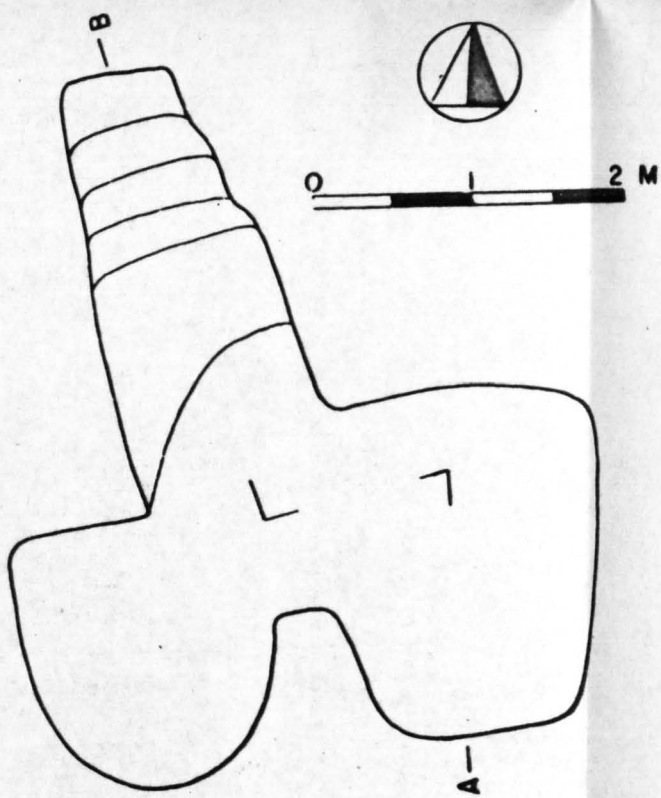
F554  
Plan



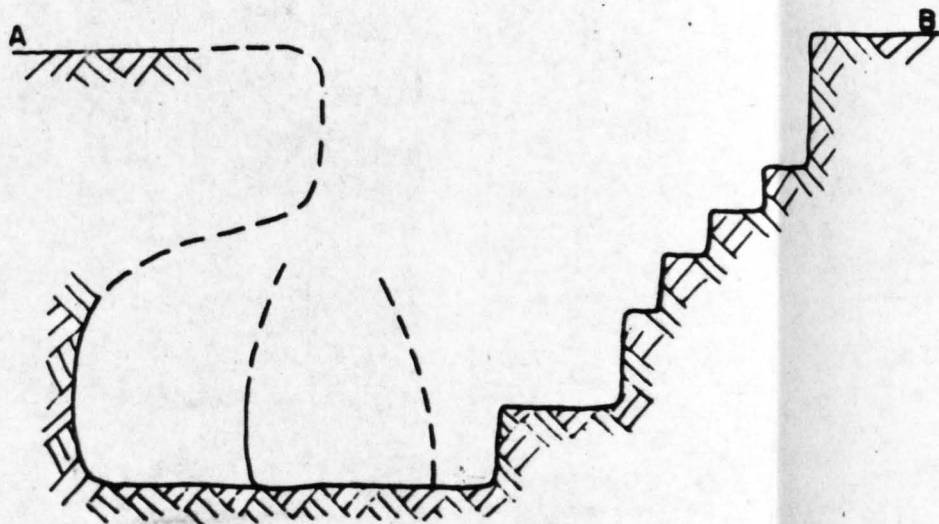
F565  
Plan



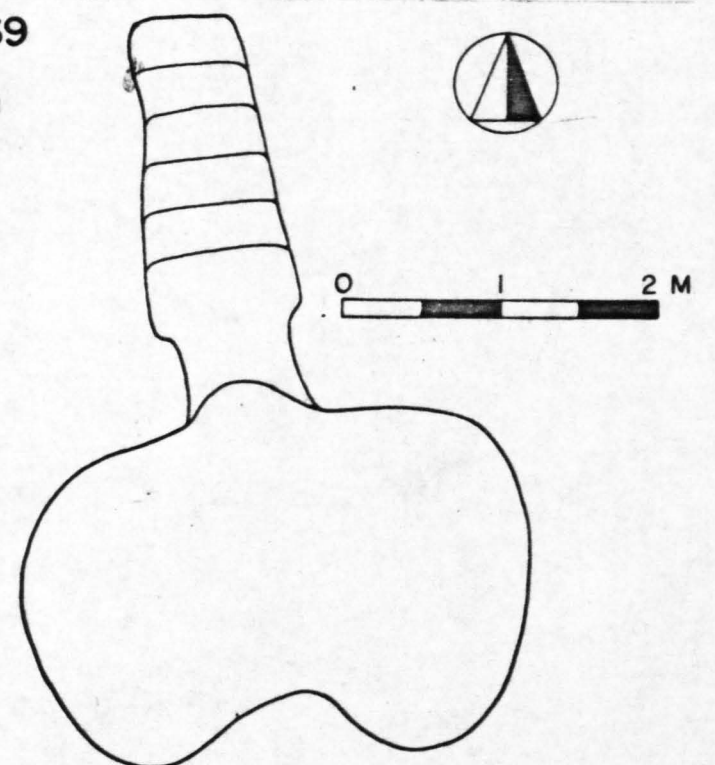
F566  
Plan



Section

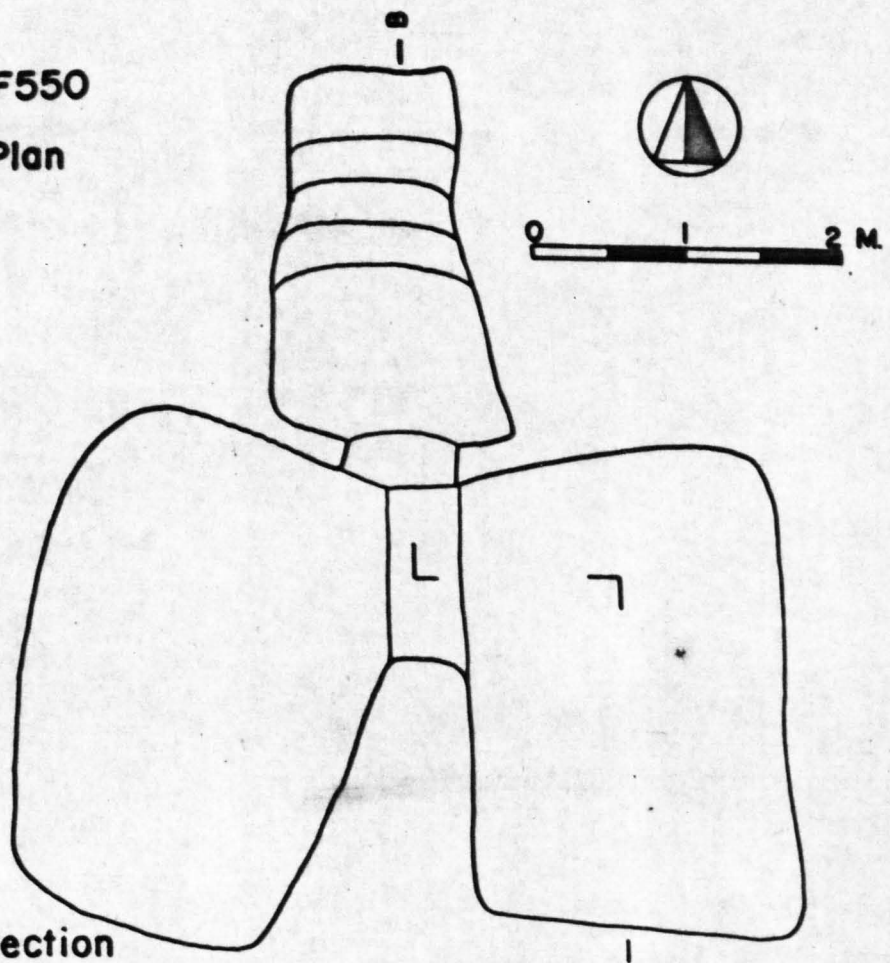


F569  
Plan

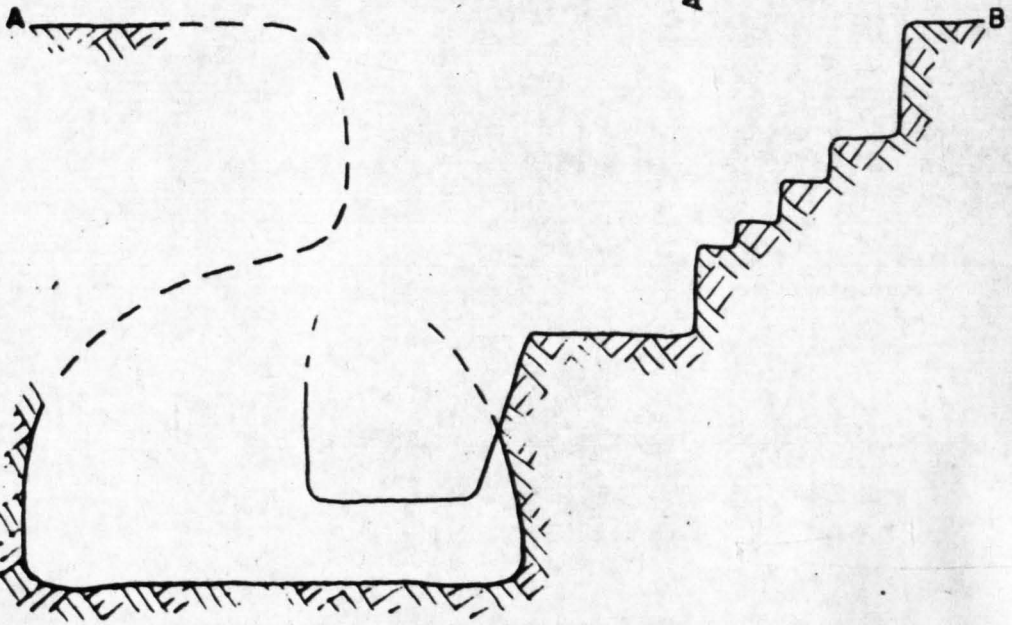




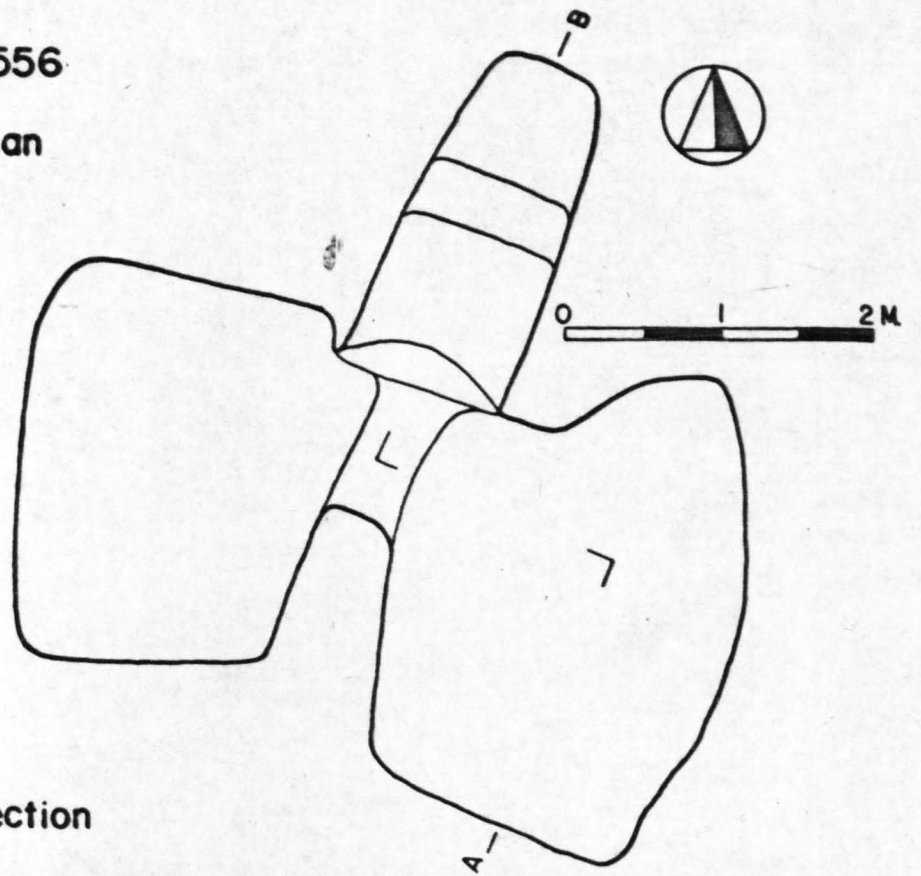
F550  
Plan



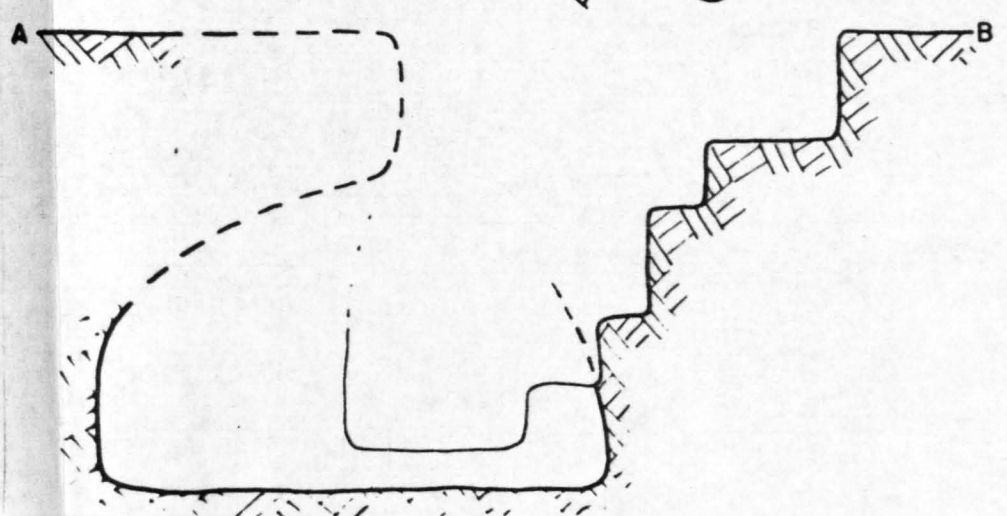
Section



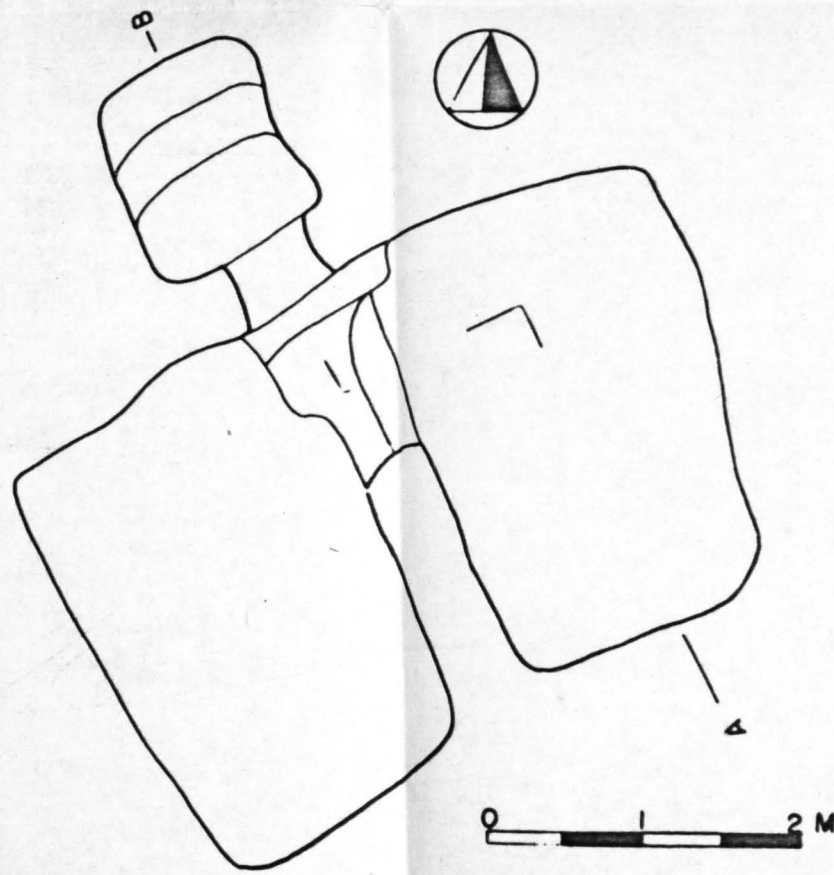
F556  
Plan



Section



F559  
Plan



Section

