June 12, 1978

L' - 1, L' - 1 Level 1 (W) batt. 1

Excavation begun in attempt to locate east extension of the farmhouse. Soil is dark and blackish; finds are few in number: one fragment of blackglaze ware and various monochrome handles and a couple handles. Level of batt. excavated so far is 0.14 - 0.15 m. down fr. the present top surface. A more proper level will be taken. The east side of L' - 1 is slightly shallower than the west side of the level - 0.12 - 0.13 m. in depth. Also the extent of the tile fall and concentration of stones M'. Soil of level corresponds to dark level of test area present in buildings throughout the site. It will be necessary to check the levels drawn last year to correlate the level terminology. The first signs of the old irrigation canal have now appeared in the southern half of M'; yellowish soil.

Also found were a few small frags. of Arretine, T.S., or units of same ware which would put level into 2nd c. B.C. earliest.

PZ - 78 - 5P  GREYWARE BASE
Second batt. begun and in a bit of a quandary. The soil appears to be tougher than batt 1 (Chocolate in tent). Material in this level of quality is the same, the gray may be slightly greater but very little. Difference in soil color may be solely due to the light red, highly variable due to moisture content, etc. Material doesn't seem to warrant the lower of batt. as Lev. 2. Necessary to do Ruth's notes for later dealing of levels of strat. (Notes are still in Texas, this will have to await) As best as I can fig batt. 1 to equal the level 1 of 1976 season, the top of which was formed by a bulldozer cut out of the side of the hill. The drying of the soil during lunch has evened out the coloration of the soil, and reduced the doubts raised above. Picking continues to be slim. Various nondescript shards and a few more sherds of Apulian-type ware in keeping with the first batt.

Roman nature of first level corresponds w/my memory of the material found in the upper levels of H1-1 in the 1977 season. Prof. Carter has raised the question as to whether this is a sort of the Roman dump in the N.E. trench. Work slowed due to continued problems of the well-point for.

June 13, 1978

Level 1, batt. 2.

Work continues on batt. Munsell color reading of soil taken: 10YR 4/2 dark gray, moist. Soil texture is sandy. Color reading on old canal: 10YR 7/8 yellow, moist with many rocks and pebbles and streaks of dark gray clay. Previous day's rambles on ext. and seem a bit ridiculous. Work continues at a slow pace. Batt. 2 measures at 0.30-0.31 m. below original surface and core variation as would be expected. Concentration of finds was higher in 1/1-2 than in 1/1-1. The greater quantity of sherds in 1/1-2 may be associated with activity in the area indicated by the tile and rock fall.
in H'. The next level should bring to light a continuation of the material from H'.

Level 1, battr. 2, finally completed, showed few inclusions. Some flint and flake tools, a block of metal, a few stone fragments, a few small pieces of bone, and various non-descript sherds. No features visible other than the trace of the modern irrigation canal.

PZ-78-9B Large bone finds. Joint

June 14, 1978

L' 1, L' - 1, Level 1, battr. 3 PZ-78-10PL

Work finally begins on next bath. The area of the irrigation canal will be left unexcavated. From this point, the naming of the level will have to wait until we have a good sample of material to work on. The excavation will take a long time to complete the level.

In discussions of Level 1, battr. 1, we see a thin layer of topsoil varying in depth from 0.12 to 0.03 m. This layer has not been disturbed since the site was made up by the bulldozers. A layer of gray soil is below this; it constitutes the first true level of undisturbed soil. The first bath consisted of a mixture of these two soils, and the majority of finds can be attributed to the gray soil, although disturbed sherds, tiles, and bone were also present in the top soil level. Whether the designations of Level 1, battr. 1, and Level 2, battr. 2, will remain unaltered will be determined after discussions with Professor Carter and Blundell.

PZ-78-11B 2 bone frag. 1 tool

L' 1, L' - 1, Level 1, battr. 3

Batt. 3 finished on both sides of the irrigation canal. Depth varies from 0.41 to 0.79 m. from surface. Soil once again appears to be identical to soil of previous baths. One of material small: a couple grayware frags, a few small...
fragments of mortar type ware were various assorted frages of coarser ware in the deposits of a cist and a tile frag of a zowning mottle.

Levels - Beginning of the next batt. The frages on either side of the irrigation canal will be kept separate for one another.

No level report drawn for level 1 batt 3. No visible feature except for very canal and signage of some tiles and stones just at the surface.

PZ-78-128

L.1 - L.1.1 - Level 1 batt. 1. North of Irrigation Canal. The soil appears to be same gray sandy soil with which we have been dealing consistency is more sticky, but it is probably due to presence of more moisture rather than a significant increase in the clay content. The number of tiles and stones present increased greatly however they were not of such a concentration as in tile fall. Shards were very few in number however they generally indicate a departure from the Roman period. There were frages of black glaze ware including 2 frages of bases of cups. There is one small sherd which may be mortar type ware. However I think that it is simply a small piece of fine reddish clay. Its surface is not polied enough for mortar type ware. Cat was shallower than usual due to concentration of tile and stones. 0.20 - 0.22 m in depth measured from surface of mud uneven. Irrigation canal levels - Batt. 1 - 3 will remain level 1 batt 2 as was designated to correspond to the level 2 of the 1977 season in this area.

PZ-78-138 - BLACK GLAZE SHELF

L.1 - L.1.1 - Level 1 batt. 4. North of Irrigation Canal. The soil remains unchanged. Increased concentration of tile and stores as in area south of canal. Quantity of sherds continue to be small and the non-Roman nature of the level continues to hold. Some red ware has been found but it does not appear to be of mortar type. A large decorated black-glaze flag has been found by Alfredo the foreman. Several other tiles including a large flag of a cist have also been pres.
L'1, L'-1, B' Level 1, batt 4. North of irrigation ditch.

Prof. Carter believes that this material is simply a continuation of the dump found in the nearby NS trench. If so, we will shortly be down to the level of virgin soil in the N-S trench.

L'1, L'-1, Level 1, batt 5. PZ-78-18B Bone frags.

PZ-78-18B Bone frags.

PZ-78-16T "Arched" relief

PZ-78-17B Bone frags.

At top of this level or technically even in level 3 straw was done around the wall in L'-1. Numerous bone frags were found associated with the wall, these frags have been covered in aluminum foil and bagged separately in a paper bag.

PZ-78-19B Bone frags.

L'1, L'-1, Level 1, batt 4. North of irrigation ditch.

Level completed; no features in L'1. In L'-1 there are several large concentrations of stones and tiles. Some of rocks may part of a cress well of the wall in L'-1 south of the irrigation ditch. Numerous large tile frags of a flat type with turned edges; clay of tiles is reddish orange. Exact nature of tiles & stones is still not certain.
June 15 1978

Down to top of wall in L-1 we have same gray sail as ... upper area. Assn with wall is a layer of dry ... from this layer is clay. Check material, only a ... debris rim. Level 2 = layer of the pavement ... assn. of the wall. Level 1 = everything down to ... well and pavement. Level 3 = area below wall and ... pavement. Level 2 = Tile fall and below in L-1

Level 2 (in fall)

L-1

Bottom on L-1 south of gray canal going through a concentration of tile fall in L-1 south of gray canal. Assn. of wall doesn' appear in this area.

CANAL

CONC. OF TILES

PAVEMENT

PZ-78-255

Gray Sandy soil, possible pumice base.

PZ-78-26 B & Boro fragment
TAKING OF ACTUAL LEVELS: LEVELS WILL BE TAKEN FROM A 1.2 METERS LEVEL WHOSE LEVEL IS 7.74 M.

A = -8.24 m. (L1.2)
B = -8.23 m. (L1.2)
C = -8.33 m. (L1.2)
D = 7.88 m. (L1.2)
E = 7.52 m. (L1.2)
F = -2.04 m. (L1.2)
G = -2.05 m. (L1.2)
H = -2.3 m. (L1.2)
I = -2.96 m. (L1.2)
1' + level 1, batt. C. North of irrigation ditch.

Another part has been dug and it will extend eastward toward the tile and stone concentrations in 1' - 2. Nothing has changed in terms of soil. Number of tiles seems to be increasing; possibly the fall in 1' slopes downward into 1' - 2.

1' - 1. Level 2 (New) South of irrigation ditch. Area of tile fall has been cleared to area of tile fall in 1' - 2.

1' - 2. Level 2 South of irrigation canal. Cleaning of wall. A large pyramidal loomweight has been in the course of the cleaning of the wall. (A special find in this case)

The tile and stone fall found last year in 1' - 1, 1' - 2 apparently continues over the wall in 1' - 2 and in the section of 1' - 1. North of the canal.

2' - 1. Level 2 (New) South of irrigation canal.

The batt. has been completed and the tile fall doesn’t extend into the western corner of the area. As mentioned above this stone.

L' - 1. Level 1, batt. C.

Numerous sherds in the material at Prof. Carter has identified in imitation terra sigillata keeping in present view that we have an extinction of the Roman dump.
M' - L LEVEL 1 AREA NORTH OF WALL

Exavation of 1977 season took out both levels (Area of pavement) and level 3 (Area below pavement). Now level 4 is being uncovered to the top of the wall found in the southern portion of the area. Material is completely of the sixth century. Tonic urns, spindle whorls, type of vessel which seems to be smelting spouts. Carter, "nothing more recent than the end of the 6th C. What is it doing here?" Could be early fifth. Test pit gray clay w/ clay and streaks of red sand.

M' - L LEVEL 2 CLEARING OF THE FALL

Test fall now being cleared of amorphous fragments.

M' - L LEVEL 4 AREA SOUTH OF WALL

Less material than in area north of wall. Most sherds are nondescript coarse ware, one fragment looks like a dec. which appears to be 6th C. However, there is also a fragment of amphora ware (4th C.) and a Keon type amphora handle. Also some black glass fragments. Material south of wall certainly lacks the consistent 6th C. nature of the material north of the wall.


M'1 - H'1

Level 3/4, batt. 1

North of wall and almost on H'1 axis a statuette has been found; head is missing otherwise body is complete; figure of a goddess. Well ends after about 2m. and batt. now extends along full axis of sq. until and is working into M'1. Very near M'1 - I splice another stat. fig. has not been found; this belongs to a larger plaque, only area of breasts & stomach visible with study on either side belonging to long hair of garments.

This batt. is same level as level 3, batt. 1, however in the clearing of the Rom. stones & tiles in M'1 it is entering the level 2 of that sq. wh. opens up great for confusion. A mixture of Rom & Ch. materials.
thus would be expected. Some coarseware frags. appear to be Rom.; these are some black clay frags. and some frags. which appear to be qtz. in keeping w/ level 4, also a lump of slag was found w/ is interesting since a smelting spout was found c. 1.5 m. due east in the same level.

— LEVELS —

**Level 2.** Area of tile fall has been maintained in H'2 and level 4, but maintained in H'2. The combined square box at end of previous day contained many of both levels, the excavator to best of his ability has separated the material. Some mistake in sep. may have occurred but it will involve no more than a few pieces of nondescript coarseware.

**Level 3 + 4, batt 1** are at same stratigraph level, their differentiation is as follows:

**Level 2** = area of Roman deposit of tile & stones which overlies the earlier tile walls and extends through section H'2-L'2-1

**Level 4, batt 1** = level associated with wall in south half of H'2 (as yet unthreatened). The level 2 above this is the area of the gravel pavement area - the wall in the north section of H'2 and level 3 is the area directly below. Level 2 + above the wall area of level 2 + 3 were excavated in the 1977 season where they were called level 2 batt. 1 + 2. The gravel pavement was not recognized by the excavators.

**Material included several black glazes frags.** and a lime rim.

**H'2, level 2** Area of tile fall. Batt 1.

Work continues on cleaning out the Roman tile & stone deposit. Many frags. of amphorae and other large storage vessels. Photographs taken.
Levels taken from K'4, K'-1 whose actual level is 4.16 m. as
sighted from M'4, M'-1

\[ A = -8.61 \text{ m.} \quad \text{Find spot of full body fig, Lev. 4, Batt. 1} \]
\[ B = -8.47 \text{ m.} \quad \text{End of wall} \]
\[ C = -8.46 \text{ m.} \quad \text{Find spot of fig. frag., Lev. 4, Batt. 1} \]
\[ D = -8.56 \text{ m.} \quad \text{NE corner of M'1} \]
\[ E = -8.60 \text{ m.} \quad \text{SE corner of M'1} \]
\[ F = -8.62 \text{ m.} \quad \text{SE corner of M'1} \]
\[ G = -8.63 \text{ m.} \quad \text{NE corner of M'1} \]
\[ H = -8.55 \text{ m.} \quad \text{NW corner of M'1} \]

M'1 Level 2, Batt. 2

Another batt. begun to clear out the Roman tile and
stone deposit. Large number of tiles and stones remain.
Materials are once again frags. of amphorae and other
coarseware vessels with some circular brommellots.
At bottom of batt. a high density of tiles and stones
no longer appears, therefore it seems that we are finished
through this deposit of Roman material.
A bit of mixture has appeared with a few blue sherds of
6\textsuperscript{th}, 4\textsuperscript{th}, 3\textsuperscript{rd}-4\textsuperscript{th} type found along with the Roman coarseware.
June 16, 1978

M. -1. Level 4, batt. 2

Work begun on this batt. of separate boxes for
for areas north and south of wall in South half of
sq. Soil north of wall is gray with high sand content.
The soil south of wall has a very high clay content,
grey in color with some streaks of red sand.

South of wall several tiles, some bronze frag., a
votive vessel, and other frags. have been found and
are being travelled by Prof. Carter. Possible indica-
tion of a flag as associated with the wall.

North of the wall a solid frag. of what appears to be
an enthroned fig. has been found along of a
large lekythos rim frag.

North of the wall - the streaks of red st. sand in
the clay run throughout the matrix, in some places
1. 0.10 m. in width of some concentrations.

South of the wall conc. of material - Thin sheet of
bronze with one curving edge poss. orig. part of a
curcular piece. Large concentration of pot. frags.,
incl. a foil that whole votive vessel.

Large number of small shells found in area of
the votive vessel.

Material both N. & S. of wall is to all appearances
purely of the 670 c. even though it strat. graphically
is too high. Prof. Carter bel. that for this date to have
maintained its purity, it could not have moved
far. Too washed from the west nearby to present its
South of wall - Among finds is a strip of iron and the
head of a nail.

North of wall - In addition to large no. of 670 c. shed
there were several stat. frags. incl. a & large and small
head. Gusapo says that there is a pavement at the bot-
th of the batt. if it is the 670 c. pavement our part of the
presence of the 670 c. material is decided by the
South of the wall - in the conc. of sherd there was
a concentration of carbon limes; one of the frag.
vessels showed signs of being burned.
All of stat. found in M'-I Level 4, batts. 1-3 have been found in the northwestern corner of the square.

M'-I, Level 4, batt. 3 South of wall.
Relatively small quantity of sherds still appear.

M'-I Level 4, batt. 3 North of wall.
CARBON SAMPLE — TO BE SENT TO TEXAS!

LARGE CONCENTRATION OF CARBON C. O. 40 m x 0.12 m.
About 0.40 m SE. of wall, about 0.85 m.
SE. of M'-I stake, actual level — 8.67.
Matrix — gray clay w/ streaks of red sand and numerous rootlets. Associated material: 67 c. pottery sherds and votive figurines.

M'-I Level 3, batt. 1

Quantity of pottery has decreased; behaved some fragments of red clay as has been encountered in M'-I.
Material is apparently C. H. based on two distinct
ruins found at this point; marked change from the heavy Roman coursewre of level 2 which corresponded to the area of the Roman tile or stone deposit.

Level 3 designation based on change of material & increase in amount of clay. This level 3 is another is level wy of M'-I Le. 4, batt. 3, and it should not
be confused by the level of M' - 1 as designated this year.
A level which was taken out in the 1977 season.

A fragmentary male votive head of Tarentine type has been
found in the center area of the square.

A few shreds of Roman ceramic have appeared, notably
a frag. amphora base. These shreds are heavily outnumbered
by the C. 4th B.C. material, and we doubt simply lead
down from the Roman tile & stone deposit of level 2.

* To be added to discussion above.

**M' - 1 Level 4, batt. 3.

Numerous stones have appeared at the bottom of
this level, notably along the north boundary of the
square. Giuseppe has ident. these stones as part of the 6th
pavement, further traveling is necessary before any
final determination can be made.

M' - 1 Level 3, batt. 1.

A layer of the Rom. tile & stone deposit is still present at this
level along the west edge of the square up to a width
as great as 2.0m. Technically, this explains the
presence of Rom. material invited earlier. Technically,
this area belongs to level 2 since its still the
tile + stone deposit; however, this designation has
not been made in the box, therefore
an odd mixture of material is present in the block of material labeled M'-1, Level 3, btt. 1. The 6EC material is from the eastern 3.0 m. of the square and is related to the 6EC level of the hall. The Rom. coarseware and stone frags. belong to a deep penetration of the Roman fill and stone deposit in the western 2.5 m. of the square. Yet another area for late work with this material is for the keep their eyes open.

Note that some Greek material has also appeared in the area of the Roman deposit, prob. from the lower area of the tet. Below the Roman material, notable is a large rim frag. of a thin-walled banded lekane or similar bowl, and another thick-walled lekane rim. Sump of iron slag also found in this level.

Check the lekane rims with Hydra publications to see if any date of value can be attached to them on the basis of the Athenian material.

M'-1, Level 3, btt. 1
The apparent pavement noted along the north edge of M'-1 continues into M'-2.

LEVELS — TAKEN FROM K'-1, -2 whose actual level is -7.7m
as determined from M'-1, -2 (-7.78m). M'-1, -2

A. -8.80 m.
B. -8.80 m.
C. -8.79 m.
D. -8.73 m.
E. -8.71 m.
F. -8.67 m. only stone.
G. -8.78 m.
H. -8.81 m.
E. -8.80 m. M'-1 at level 3, btt. 1? see above for M'-2 at level 4, btt. 3? discussion of leve
June 19, 1978

M 1, level 3, batt. 2.

Work on batt. begun. Soil continues to be gray clay as before, but streaks of red sand; the red quantity of red sand may be slightly greater in this batt. than the earlier ones but not to a significant degree. Material is all archaic in date, although the number of sherds is very small: kerame rim frag. several 6th c. type cup rims of banded decoration. Prof. Carter believes that the cup rims belong to an early period than what we have been finding; poss. mid-6th c. Two clumps of iron slag have been also been found in the batt. One frag. base of black glaze band of decoration wh. due to its size appears to be a votive vessel.

One statuette frag. has also been found; poss. an arm of some drapery on it.

More pavement has appeared at the bottom of this batt. At this point it appears to be composed of finer stone, that is usually, however, more troweling and sweeping must be done.

A piece of wood c. 0.015m x 0.043m. has been found and covered w/ alum foil and tagged.

Work completed on batt. except for final troweling and sweeping.
M'-1 Level 4, batt. 4 South of Wall 104 PL

Work begun on batt. soil continues to be gray clay with streaks of red sand. Munsell 10YR 5/2 more gray. Finds few-visor; bone jar, some glazed ware, some ware of deecer, bone jar. Greek char of finds continues.

M'-1 Level 4, batt. 4 North of Wall 104 PL

Work begun on this portion of area; soil remains unchanged; gray clay of red sand. As in area so of well finds are viscous; same glazed ware.

M'-1 Level 4, batt. 4 South of Wall 104 PL

Pavement has now appeared at the bottom of this batt.

L'-1 Level 2, batt. 2 North of Irrigation Canal 96 PL

level 2 defined as before as area of the Roman tile and stone deposit. This area aligns with L'-1 will now be brought down to the level of M'-1.2 to determine if the pavement and 280 material continues underneath.

M'-1 Level 3, batt. 3 96 PL

This batt. will bring the square down to the stratigraphic level of the pavement etc. in 1975. The pavement which has been found in the previous two battens will of course be left untouched. Soil remains unchanged; gray clay with streaks of red sand.

M'-1 Level 4, batt. 5 South of Wall 106 PL

Batt. begun which will carry this area down to the level of the pavement etc. in 1975. Soil remains gray clay with streaks of red sand. Very little material present. More pavement has appeared.
M' - I Level 4, batt. 5 North of wall. 

105 ph

Batt. begins which is working around the
exposed pavement. Batt. continues to be gray
clay of streaks of red sand. Very few finds.

Area left untouched by batt.

M' - I Level 4, batt. 5 South of wall.

There is a concentration of blacker soil
along the wall. The conc. begins about
1.00 m. from the west end of the wall.
Its Munsell reading is 7.5R N3/ very dark
gray, moist, soil is still clay of streaks
of red sand. Darker color of clay may be
due to the presence of charcoal or poss. som
other reason; no carbon lenses are visible
in the clay. The complete extent of this layer
of dark clay can not be determ. hence
it goes below a core of stones left from
an earlier batt.

M' - I Level 4, batt. 5 North of wall.

In NE. corner of area, the concentration of red
sand in the clay is noticeably higher.
This may indicate virgin soil, a possibility
echoed by Alfredo.
M'1, Level 3, batt. 3

Material predominately archaic in character, however some sherds such as a gray wall frag and rubbed-stratified type sherd speak of much earlier periods. These latter pieces pre-dated down from the Roman dump deposit. Although I don't know their find spot in the sq., I would guess that it was along the west side of the square where the Roman deposit went down the furthest.

M'1, Level 4, batt. 6 North of wall 107 PL

Area with exception of core of stone taken down to virgin soil already noticed at the end of batt. 5. No finds.

M'1, Level 3, batt. 4 103 PL

Another batt. taken in hope of reaching virgin soil. Pavement uncovered in earlier batt. Left untouched. Relatively small quantity of sherds all of which are of 6th c. date, including a lachaneum, a large rim sherd frag. of 6th c. type cup. Virgin soil appears to have been reached.
June 20, 1978

M'1, CLEARING OF WHEEL BARRON RAMP 120PL

The wheel barrow ramp is being cleared out. The material will be a mix of the three levels and various ballast of this square.

L'1, level 2A, batt. 1 North of Irrigation Canal 116PL

Level will have to be determined after a discussion with higher authority. Exc. of this sq. stopped at lev. 1, batt. 4 except along its eastern side where an extension of the tile floor and store deposit in L'-I was left at lev. 1, batt. Many stones and tiles are in the present batt. and material is Roman, certainly belongs to the time of the Roman deposit of stone and tile.

Material: large ceramic frags, frag of tin/hide type ware, a sound loomweight, and numerous bones and bone frags.

M'1 LEVEL 3, BATT. 5 122PL

Although I had thought that virgin soil may have been reached yesterday, we are going down another butt. Soil continues to be gray clay, however the quantity of sand in it has increased. Finds are very few.

At the top of this butt, in the SE corner of the square a short continuation of the pavement already discovered has appeared. No new features visible in batt. This may be the last butt in this square. No ware.

Most notable find is a small pyramidal loomweight, 0.068 m. h.
L'-1 Level 2, batt. 1 North of irrigation canal.

Although at present some confusion exists as to the level of L'-1. This level has been designated as 2 due to the presence of the Roman tile and stone deposit following the previous definition of the levels L'-1 and L'1. It will now be brought down to the level of H'1 and H1' to determine the extent of the 6th c. level.

L'1 Level 2A, batt. 1 North of irrigation canal. Soil is sandy in texture with a gray clay base, lighter in color than the lower levels with the higher clay concentrations. Mixwell 10 YR 6/1 gray. most.

L'-1 Level 2A, batt. 1 is related to but not equivalent to L'-1 Level 2, batt. 1. Level 2A in L'-1 begins one bath lower than level 2 in L'-1. Level 2 in L'-1 properly is the area of the Roman tile and stone deposit, whereas level 2A in L'-1 although related in material did not contain a core as found in L'-1. Note, see above that above the east side of L'-1 there was an extent of the deposit in L'-1 which properly is level 2. The mat of this area however was included in the rest of the material for L'-1, batt. 1 to avoid further confusion.
Virgin soil is now present in the north 2.0 m of the square. South of this virgin soil is an area of blackish soil, Munsell 10YR 3/1, very dark gray. Its texture is clayey, but it also has a high content of sand. There is a layer of the purer gray clay, as encountered elsewhere, below this black layer, and an apparent pavement is associated with this layer of clay. Prof. Carter remembers a similar situation in C-3 during the 1976 season. Yesterday some pottery was found in M-1 which Prof. Carter thought was earlier in date than the previous 6th c. material founds. Prof. Carter believes that this is either an earlier pavement or possibly an alluvial zone of a wash of earlier material. This area for the present will not be cleaned further since there is pavement of a higher level directly south of it. Time allowing a second cleaning will be made at the end of the season for additional cleaning. The area of this bath was only 2.85 x 2.55 m, bounded by pavement on the east and south and virgin soil to the north. Material was very scarce; some glass was and various nondescript sherds.
0'1 Level A, batt. 1

This area was first excavated in 1976. Until we can determine at what level the excavation stopp[ed], the levels will be designated as A, B, C, and so forth.
The first batt. is an area of a tile fall or concentration, therefore level A will indicate the area of the tile cone.
The soil is the sticky gray clay encountered through the site. [Redacted] says that it is a deposit from when they dug the canal. However there are fossils in the clay and at this level I am skeptical as to whether it is actually just refuse from the canal.

1' - 1 Level 2, batt. 1
North of old canal Batt, completed; small concentration of stones in NE corner, no other features visible.
Material: Large ceramic fragments, some pieces of stoneware, some, 0.13 in, many large bone fragments.

0'1 Level A, batt. 1
Batt not yet complete, going slow due to toughness of clay. No features as yet used.
Material: relatively small quantity; numerous ceramic and black glaze sherds of sheek chas. Two 3-inch pit frags, various bones and teeth.
June 21, 1978

No work; Entire crew at Incoronata

June 22, 1978

Mimo was absent from work. "Servizio" at Pisticci.
Most of morning taken up w/ clean up operations on the east side of the excavation.
First day of work w/ The Dumper.

O' Level A, booth 1.

Batt. began on the 20th, now finally gotten back to for completion. The tile concentration mentioned in the discussion of this sq. on the 20th lies in western half of the, approx. 20x20m., and doesn't extend into the remainder of the square. This may be yet another continuation of the Rom. tile & stone deposit to the North, although as of this point there has not been a high density of Roman ceramic material in the area of the tile and stone deposit. The soil continues to the usual gray clay, but it contains unusually large streaks of red sand with some streaks as wide as 0.10m. Only one rim of a large storage vessel, and the core of tiles also is not as heavy as in the deposit in N'.

The tiles of this deposit are of a different character than the tile of the Roman deposit at the N'. They are thinner walled and, although some upturned edges exist as above, it is not a common edge type in the area. The edges of the tiles in this area with very few exceptions differ little from the thickness of the tile itself. Photographs have been taken illustrating the difference between these tiles. Also no triangular tiles for the corners of the tile columns have been found in this level unlike the in the deposit in N'.
L-1 I. Level 2, BART 2, NORTH OF IRREGULAR:

An area of the level is marked with a box. The box contains a sketch of a structure or wall. The sketch includes a grid reference system and dimensions. There is a note at the bottom of the page that reads: "North of BART 2, Level 2."
GRAY WARE BASE

135P
136T cr. h.w.
137B

O'1 Level A, BATT. 2 131 PL

BATT. BEGUN VERY LATE IN DAY; ONLY 3 SHELL BOWLS FOUND IN LIMITED AREA WORKED.

L'1 LEVEL 2A, BATT. 2 / L'1 LEVEL 2, BATT. 2 122 PL

Two sizeable concentration of stones and tiles have appeared in these two squares near the Wuz. canal. Although they are prob. not walls, they will be exam. carefully to mnl. bec. they are dismantled.

[Diagram of canal with dimensions]
Alfredo & S. Biagio Absent

June 23, 1978

1' 1' Level 2, Batt. 2, N. of Irrig. Canal 144 P.

Batt. cont. soil cont. to gray sandy varnish. Rock core in NE corner was very firm proved to be not a feature. Finds: few bones, some bone, a few mammal teeth, a few mammal teeth, bottom of batt. c. 1.04 m. down from North wall.

0' 1' Level A, Batt. 2.

Soil still gray clay, finds few, at this pit, on black grey chert fragments nondescript type.

1' 1' Level 2, Batt. 3, North of Irrig. Canal 147

This batt. began. Soil is very clumpy, very hard, soil appears to feel like it has a higher clay content, however this may be due simply to the per cent its wet matrix. The high content of sand is still present, pottery seems to have taken a change; there are two frags. of a yellow slip red fine dec. Raphael has just pulled out what may be a small sherd of a yellow slip red fine dec. It is difficult to place this silt, the material change is interesting. Suger who is looking at the site helped.

I level taking says that a few pieces of clay, red band dec. have appeared at level 3, but at level 1 narrower red band. Some frags. of clay have appeared along with some frags. of iron slag. I have told the workers to remove the stone concentration uncovered yesterday. I doubt that it has any significance, but it can always be removed later. Some tiles are visible at the bottom of the bath. The quantity of material...
is small. We may be in a zone which contains the remnants of the Roman dump and lies above the street material. A twilight zone between the two ages.

OAK B. BATT. 2

L' 1

Level 2A, BATT. 3 W. OF IRC C.

Batt. begun and as in adjacent square the suspicious stone concentrations are being left for the time present. Finds as far as coarseware frags, some bone frags all in keeping of the Roman dump deposit.

S 1

Level A, BATT. 2

Some large coarseware frags and a peculiar bimetallic have appeared. These finds of Roman character once again come from the higher area along the best edge of sp. as mentioned yesterday. This must be taken into account so that the evidence of the pottery is not misunderstood. I am sure that this Roman material belongs to the Roman dump deposit of which we've been dealing. Some of this deeper area to the west will be left for a dumper ramp, the rest as usual will be brought down to the level of the rest of the batt. A few stones are visible at the bottom of the batt, which may indicate walls or pavement, however it is difficult to tell due to the dumper tracks. The next batt should come down to the level of the pavement already excavated.

THE LAYING OF STAKES: A NOTE.

TODAY MICHAEL GUARINO, GINGER HALE, AND JACK ENGLERT HAVE LAID OUT NEW GRID STAKES. MOST OF THE OLD ONES HAVE LONG AGO DISAPPEARED OR MOSTLY BEEN MOVED FROM THEIR CORRECT POSITION. WE HAVE TRIED TO SET THE GRID OUT AS BEST AS POSSIBLE BUT HAVE BEEN HAMPERED BY THE FOLLOWING:

- The right angle...
sight is a primitive and inaccurate instrument and its very nature makes exactness impossible; the lack of accurate set points to work from in laying out the grid, we relied primarily on N’ 1-1 and EK’ 1-2 (the latter had been laid earlier in the season by Tom Hole, Michael Beaudouin, and Jack English) and went from there. We laid out the stakes to the best of our ability, and double and tripled check where possible. The grid as now laid certainly is as accurate as it has been for a few seasons.

L’ 1 level 2A, Batt. 3 N. of IRK C.
A possible metal handle in 3 frag has been found. Prof. Edlund has noticed the frag of a grey ware plate fr. this eg. 12/1 an unusual pattern of spots on it.

Thru stones have appeared at the bottom of bttt once again apparently part of a fall or dump rather than a well. These stones will be photographed at end of day.

N’ 1 level A, Batt. 2 Clearing of strip West of pump.
The 50 m. wide area is stratigraphically equal to the level of excavation in O’ 4, therefore the same level designation has been used.

154 PL
A new find. begun late in day. So still gray clay.
One of first sherds found was a large decorated frag of a 5th c. cup.
June 26, 1978

L-1 Level 2, Batt. 4, N. of 11th C

Soil is once again a moist gray clay with relative high content. The sand content may be lower now, then in the previous level, but it's hard to determine. Small lenses of carbon are scattered throughout the level.

0-1 Level A, Batt. 3, 163P L

Soil still gray clay. Numerous small stones and pebbles are in the clay making work difficult.

L-1 Level 2, Batt. 4, N. of 11th C

Batt. completed. Lenses of carbon still scattered throughout level and visible in top of next level. Just East of stone tile con. wh. has been left is a layer of cm. stones at are being left. They may be a pavement or simply an alluvial layer. Two large stones (17m. long x 26cm. long) 1/12 west of SE corner forms a right angle. Tiles and some other small stones are associated with these stones. It certainly looks like a corner but it could...
116P

FROM SLOP. 11TH SLOP. PERMIT

I. -I. N.

New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.

6. New dink before anything around gravel.
M. N. N.

L. N. N.
1'-1 level 2, Batt. 5, North of Inurgation

Two pieces of metal have appeared; one
a flat rectangular piece 0.06 x 0.032 m, and
the other a piece which is bent longitudinally
0.04 x 0.015 m. Now another piece (Brooken)
0.07 x 0.55 roughly rectangular.
Some molas attached to a fragment of a mandible
have now turned up. These appear almost turned
but pit belong to some other animal.
Some fragments of graywacke have appeared along the
black wall thwart above.

0'-4'-1 level A, Batt. 3

Batt. completed and there is more pavement
at or just below the bottom of the batt. A
continuation of the North-south field stones are
in N-1 has appeared. Vouchers sent Alfried
are cleared out further exposing the pavement
and walls of their finds to find. The next step
This does constitute what could be called another
batt. After the track up with this crew will
move to the east. Finds were relatively few.
They included a large base of side frags. of a chip
and various other shreds of stone appearance.
The dumper ramp has been removed.

1'-1 level 2, Batt. 5, North of Inurgation Canal

What seems to be fieldstone pavement has appeared
in the Eastern half of the square. Its exact mate
is not yet clear and a further batt. will be
necessary. Also in the Southeast corner of area there is
a core of yellow breccia and an
inference in the canal. Two more metal frags. have been
found along without assorted construction mark.
### Stratigraphic Levels - Sighted from K'1, K’1-C

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
<th>Depth (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L’1</td>
<td>Northwest Corner, L.V. 2A,B.3</td>
<td>-8.645</td>
</tr>
<tr>
<td>L’1-M</td>
<td>Northwest Corner, L.V. 2A,B.2</td>
<td>-8.505</td>
</tr>
<tr>
<td>L’1-1</td>
<td>Northeast Corner, L.V. 2, B.4</td>
<td>-8.805</td>
</tr>
<tr>
<td>M’1-1</td>
<td>Northeast Corner of Exc. Area, L.V. 2A,B.6</td>
<td>-8.915</td>
</tr>
<tr>
<td>M’1</td>
<td>Northwest Corner, L.V. 3, B.5</td>
<td>-8.145</td>
</tr>
<tr>
<td>M’1-M</td>
<td>Center of Sq., L.V. 3, B.6</td>
<td>-9.225</td>
</tr>
<tr>
<td>M’1</td>
<td>Middle of S. Edge, Pavement L.V. 3, B.2</td>
<td>-9.065</td>
</tr>
<tr>
<td>M’1-M</td>
<td>Pavement along E. Edge of Square Mid.Pt.</td>
<td>-8.915</td>
</tr>
<tr>
<td>O’1-M</td>
<td>Center of Sq., L.V. A, BATT. 3</td>
<td>-9.485</td>
</tr>
<tr>
<td>M’1-M</td>
<td>At Stake, After Bulldozer Bef. Further Exc.</td>
<td>-7.485</td>
</tr>
<tr>
<td>L’1-M</td>
<td>Center of Sq. Apt. Bulldozer Bef. Further Exc.</td>
<td>-7.115</td>
</tr>
<tr>
<td>L’1-M</td>
<td>At Stake of further Exc.</td>
<td>-8.285</td>
</tr>
<tr>
<td>N’1-8</td>
<td>At Stake</td>
<td>-8.145</td>
</tr>
<tr>
<td>N’1-7</td>
<td>At Stake</td>
<td>-8.775</td>
</tr>
<tr>
<td>O’-8</td>
<td>At Stake</td>
<td>-8.515</td>
</tr>
<tr>
<td>P’-6</td>
<td>At Stake</td>
<td>-8.705</td>
</tr>
<tr>
<td>P’-8</td>
<td>At Stake</td>
<td>-8.685</td>
</tr>
<tr>
<td>P’-9</td>
<td>At Stake</td>
<td>-8.625</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-8.375</td>
</tr>
</tbody>
</table>

---

**O’-1 Level A, BATT. 4**

The level of this batt. varies greatly according to the presence or absence of pavement. The batt. is nonexistent where pavement was exposed by previous batt.

**Raphael**

Raphael in the process of troweling around the pavement has made a very interesting discovery. About the "corner" he's shown that it is actually a circular basin. At the south end next to the canal is a broken neck of a stone vessel which seems to have been used as a spout. Here Vera has perceptively pointed out that if the spout the water would have to run up hill.
Unfortunately, the presence of the canal makes it impossible to determine what lies to the south of the basin. It is conjectural that some art. water bodies have existed or allow the flow of water. Also it must be noted that this basin need not have been for water. A large vertebra was found in the center of the basin on its floor. It could have served for storage, sacrifices, or lord knows what else. A detention basin possibly? The floor of the basin is composed of stones or mud and it slopes downward somewhat like an inverted cone.

0' - 1 Level A, BATT. 4
The finds are relatively few and all 6th.reek in character. The pavement is not present throughout the area, in fact we may actually now see some defined limits to the pavement. The wall present running west forms a right angle at the edge of the pavement. In the NN corner of the sq. We may finally have one of the actual limits of the pavement area, rather than a lack of pavement due to damage.

1' - 2 Level D, BATT. 5
The finds are few; they include a bent piece of metal etc. may be nail or stick piece. Something else. It is too badly corroded to identify. This is the only clear view of the pavement as the trenches have not been so clearly identifiable pieces. As far more of the black were encountered on the previously baked, the pavement has appeared at bottom of wall.
June 27, 1978

L' - I Level 8, Barr. 5 North of Longate Creek

Note on "Black ware" discussed yesterday for this square. Reexamination of this ware late yesterday, aft. and early this morning has confirmed it is none other than gray ware. It Poss. the dampness of the soil or too much sun made me see it as something other than "black ware. This is perplexing since gray ware in Roman bath in this area is ass't of pavement which should be red and C6 BC at least. Poss. the red material was cleaned out by Roman activity. Perhaps this pavement is later and related to the C6 BC, only in appearance.

More pavement has appeared at the bottom of this bath; it is a cont. of the pavement asso'ed. If the basin found yesterday, it slopes down toward the north which probably enough goes against slope of the hill. Raphael's drawing had now uncovered an almost complete part till 0.32 X 0.46 sq m. It lies in the NW corner of the square, on level as if it may have been used as a Channe. Raphael identifies it as such. Maybe we get to water on the train and it simply fell there. Stones associated with it are suggestive in the wall of the square to the north. R. has also shown that the strip of gravel left along the edge of the tell surface core is nothing more than a fall. After photographing it, we will remove it to clarify the pavement. There have been found in the NW corner of the sq. They will be kept for photographing then removed. A piece of black glass with a floral on leaf will fig. discuss, no mud appeared lying just on the pavement, 0.32 m N of the basin. It al...
well be left for photographing. Another large box frag has turned up just west of the previous two
frags. Other post frags are very few; three grayware
sherd. and four other coarseware sherds.
Lighting is bad this evening, so photography will have
to wait. If so, the strip cleaning of the strip of
gravel will also have to wait.

O'-1 Level A, BATT. 5  
Level completed. Wall and other features have been
exposed and ready for final traveling. Funds
very few, and all were of early Greek Character

The Crew moves East:

N' - 7 Level B, BATT. 3
The exact level here at close of last season will
have to be determined from notes. Approx. 0.12m
were removed from this square & during the
cleanup after the bulldozer. This cut extends into the
N' - 8 section including all but a 1.40m. strip
along the east end. This strip too was effected by the
bulldozer operations, so there can be no true correlation
between the 1977 work in this area and the work this
season. A North-south baulk is being left aligned
with the -Java.

O' - 7 Level A, BATT. 1

This area is stratigraphical equal to N' - 7 and like that
area its level has been affected by the bulldozer since
last season. The soil is the typical gray clay with a very
high content of red sand. Some tile frags present
in both also some by fallstrokes. North part of sq
taken up by 1977 E-W. test trench.

Based on the levels taken year, O'-7 is 0.45 to 0.50m. higher
in elevation than N' - 7.
N' - 7 Level #, Batt. I

Soil is the gray clay with sandy content. Most noticed are the customary stretches of red sand. The core of red sand in this sq. to the density present this past site, it does not have as high a content as in the same tile fracs present in Batt. The material is predom. red in character, however a few tan sherds of grayware are some by coarseware fracs may be Roman. Prob. remnants fr. upper level. One pyramidal loomweight has appeared.

Antonio left at 9:45 w/ a sick tummy.

0' - 7 Level #, Batt. I

A layer of black stained earth is along the south edge of this square. Its Wmsell rating is 5YR 2.5/1 Black, moist. The stain seems to be 0.50 - 0.60 m in width. Not sure whether it is a storm layer or caused by some other factor. The soil in this area is still clay 25' red sand gray. Few are few as far in this area. Several bone fracs including a bone point and a large molar. Also a piece of orange coarseware w/ a light lighter orange slip and an impressed line dec. Other sherds are various types of C.H. Some appear to be Roman. No noted above numerous Ig. stones were present in this sq.

0' - 8 Level #, Batt. I

The black stained level noted in -7, continues until this sq. and its width increases w/ almost of area.

A HEAVY RAIN SHOWER HALTED WORK FOR 20 Min. @ 11:05

BATT'S. In course of bulldozer op-1, cleanup on batt. I a layer the sq. of a batt 0.10 - 0.12 in depth was taken in N' - 7 & N' - 8 except for the east 10 to which remained at the level of the rest of the area after closing. The area cut down after closing will be design B - The rest B. I. See yesterday's actual lovels.
N' - 7 Level 4, Batt. 2
Number of tiles and stones increased in the east half of the square, and appears to be a dump layer. Most tiles found belong to flat vases with upturned edge as already encountered west. Material includes red, stone flag, some gray ware flag, some black flag, and much crossware. It is a mixture of debris of Roman material.

N' - 8 Level 4, Batt. 2 189 P.

Many tiles and stones scattered throughout level. Soil is still the typical gray clay of the presence of sound. Material so far is very limited. Several pipes and some undisturbed sherds.

Bay area at all are to apparently extend stop the progress of escape along the axis found.

O' - 8 Level 1 Batt. 1 190 P.

Very little material found, some bone flags and a few crossware sherds, and a punched in type of bone flag. Stones and tiles were scattered throughout the batt. 3

O' - 7 Level 4, Batt. 2 180 P.

Once again as in Batt. 1 the clay in the SW corner of this area contains a very high core of red sand, c. 0.50 - 0.100 v. The soil on close exam. is the common local gray clay but with a very high core of the local red sand. Mundell sawing and spot W/ high core of sand is 2.5YR 4/8 Red, moist. The soil summed to the north does not have such a high content of red sand. Early finds all appear to be Greek. All small crossware flag except for two black flag sherds.
N' - 8 Level M, Batt. 2
Finds very few. Many lb. bone frags. Mix of M'shif and mat. Another frag. of the orange-impregnated wood.

0' - 7 Level N, Batt. 2
Few sherds. Butt not quite complete. Most finds appear tile, but there is one very thin fragment of thread-like type wood. One lb. bone flag.

For 40 go to front of notebook, back of page 1
The levels as they stood in 1977 have not been reconstructed from notes for the eastern area under excavation. The area was left at Level 3, B 1.

In level 3, the area below the first fill fall, the level 4 begins at the second fill fall. The cut made during cleaning operations took out lev. 3, B 17 in N - 7, - 8. In these sq, work this season thus began at lev. 3, B 17.

Work in O - 7, - 8 began at lev. 3, B 17.

N - 8 Level 3, B 2

Work completed up to 1.40m inner strip along eastern end of sq, see yesterday note on.

Found few bone and concentrated frags of bone in a gray ware sherd of four bowls in a sq. wt. were apparently made before its filling.

O - 7 Level 3, BATT. 2

Small strip left from sq. was completed. A few concave bowl and one bone frag.

O - 8 Level 3, BATT. 2

Soil continues to be gray clay of red sand presence. One piece of red sand is high as in the SW corner of O - 7. Quantity of finds is small. A few concave bowl frags and a circular
Some weight. These are two notable finds: a large piece of stone with a curved edge on it and an iron plowshare.

Another piece of metal has appeared which may be part of a large spear head?

193 PL 0.065 T

The soil continues to be the customary gray clay at streaks of red sand. Number of finds have increased greatly over the previous half. Few tells are present. Finds are of definite Greek char. Several sherds of red fig were have appeared including a sherd of a draped and another fig of a woman in it. A few figs of what seems to be grayware to are present. Some appear to have a black glaze or coat on their surface. If this is bona fide grayware it must doubt reached down for the upper layers. A couple piece of what may post still. Frags have also appeared.
ROM. TILE FR.

TILE DEPOSIT IN

M'1, L'1
TILE FR.
O'Lv. A. Batt I
June 22, '78
100 + \[\frac{225}{335} = 335\]
L'1-1 2 workers

Area east of big wall down to pavement
Beacon: North end of big wall

Test sounding