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## VORWORT DER REDAKTION

Der 27. RCRF-Kongress fand vom 19. bis zum 26. September 2010 im Nationalmuseum in Belgrad statt.  
Thema des Kongresses war: „LATE ROMAN AND EARLY BYZANTINE POTTERY: the end or continuity of Roman production?“.

Von den anlässlich des Kongresses präsentierten Postern und Vorträgen wurden folgende nicht publiziert:

M. BERGAMINI, P. COMODI & I. FAGA	Scoppieto: La produzione di vasi a pareti sottili
D. BERNAL CASASOLA, M. LARA MEDINA & J. VARGAS GIRÓN	Roman clay fishing weights in Hispania. Recent research on typology and chronology
A. BIERNACKI & E. KLENINA	Red slip ware from <i>Novae (Moesia Secunda)</i> : 4 <sup>th</sup> –5 <sup>th</sup> local production and imports
M. CASALINI	Circolazione ceramica a Roma tra I <sup>a</sup> eta delle invasioni e la riconquista bizantina. Nuovi dati dai contesti delle pendici nord orientali del Palatino
SV. CONRAD	Pottery of the second half of the 3 <sup>rd</sup> century from <i>Romuliana</i>
T. CVJETIČANIN	Late Roman pottery in Diocese Dacia: overview, problems and phenomena
M. DASZKIEWICZ & H. HAMEL	Roman pottery from Baalbek (Lebanon): provenance studies by laboratory analysis
J. DAVIDOVIĆ	Late Roman burnished pottery from Srem
E. DOKSANALTI	The late Roman pottery from “the Late Roman House” in Knidos and the Knidian late Roman pottery
D. DOBREVA	Late Roman amphorae on the Lower Danube: trade and continuity of the Roman production
D. DOBREVA & G. FURLAN	Progetto Aquileia: <i>Fondi ex Cossar</i> . Commercio e consumo ad Aquileia. Analisi delle anfore tardoantiche alla luce di alcuni contesti
KR. DOMZALSKI	Late Roman light-coloured ware: tradition and innovation
P. DYCZEK	Remarks on the so called legionary pottery
A. JANKOWIAK & F. TEICHNER	A household inventory of a <i>Mirobrigensis celticus</i>
G. KABAKCHIEVA	Spätromische Keramik in den Provinzen <i>Dacia Ripensis</i> und <i>Moesia Secunda</i>
T. KOWAL & J. RECLAW	Scientific Investigations – Program EU – Central Europe: The Danube Limes project
J. KRAJSEK	Late Roman pottery from <i>Municipium Claudium Celeia</i>
J. LEIDWANGER	Economic crisis and non market exchange: fabric diversity in the Late Roman 1 cargo amphoras from the 7 <sup>th</sup> century shipwreck at Yassiada (Turkey)
T. LELEKOVIĆ	Pottery from the necropoleis of <i>Mursa</i> (1 <sup>st</sup> –4 <sup>th</sup> centuries)
B. LIESEN	First century fine ware production at Xanten (Germany)
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D. PARASCHIV, G. NUTU & M. IACOB	La ceramique romaine d’ <i>Argamum (Moesia Inferior)</i>
S. PETKOVIĆ	Late Roman pottery from tower 19 of the later fortification of <i>Romuliana</i>
P. PUPPO	Ceramiche comuni di VI–VII sec. d.C. nella Sicilia occidentale: produzioni regionali ed importazioni dall’Africa settentrionale
D. RADICEVIĆ	Early Byzantine pottery from Liška Čava, near Guča (Western Serbia)
D. RATKOVIĆ	The territory of Serbia in Roman times
CHR. SCHAUER	Pottery of the late Roman and early Byzantine periods in Olympia

- G. SCHNEIDER & M. DASZKIEWICZ In-situ chemical analysis of pottery using a portable X-ray spectrometer
- A. STAROVIĆ & R. ARSIĆ Cherniakhovo-type ceramic vessels from NW Serbia and the question of inhabitants of the central Balkans in the late 4<sup>th</sup> century AD
- M. TEKOCAK Roman pottery in the Aksehir Museum
- P. VAMOS Some remarks about military pottery in *Aquincum*
- M. VUJOVIĆ & E. CVIJETIĆ *Mortaria* from Komini-*Municipium S.* (Montenegro)
- Y. WAKSMAN “Byzantine White Ware I”: from Late Roman to Early Byzantine Pottery in Istanbul/Constantinople
- I. ŽIŽEK Late Roman pottery in Roman graves in *Poetovio*

Bei der Korrektur und Durchsicht der Artikel stand mir das *editorial committee* zur Seite. Ganz besonders danke ich Philip Kenrick für die zuverlässige Unterstützung und Dieter Imhäuser (ars) für die gute und freundschaftliche Zusammenarbeit bei Satz und Layout.

Die Zitierweise wurde den Richtlinien der Römisch-Germanischen Kommission des Deutschen Archäologischen Instituts angeglichen (Ber. RGK 71, 1990, 973–998 und Ber. RGK 73, 1992, 478–540).

Susanne Biegert



Angelina Raičković

## LATE ROMAN POTTERY FROM VIMINACIUM-THERMAE

### The excavation of 2004

Previous excavations in *Viminacium* (fig. 1) took place in the area of the necropolis and were mostly protective in their character. Excavations of the *thermae* at Thermae, that were located some 200 m west of the *castrum*, were also carried out on several occasions. At first, in the 1970s, a conha was discovered, which helped to identify the building. On this occasion, parts of wall frescos were detected among the rubble, which indicated a luxurious furnishing of the building. During the excavation, several phases of utilization were detected, from the late 2<sup>nd</sup> to the late 4<sup>th</sup> century. These phases were separated by layers of burned remains, which were also visible in the profile outside the wall of the conha. Excavations at Thermae were continued after 30 years in 2004. We could not explore the building in all detail, but most of it could be uncovered: five conhas as well as several rooms (fig. 2).

At the site of Thermae, the Late Roman horizon was the most prominent in the middle and at the southern parts of the site. Ceramic vessels were discovered in a layer of rubble with the construction materials – parts of bricks, floor tiles, stone, *tessellae* and fresco mortar. An older horizon, with findings from the 2<sup>nd</sup> and early 3<sup>rd</sup> century, was evident at the northern and north-western parts of the site.

Late Roman pottery has been previously discovered at several places at the *Viminacium* area (fig. 3): at Selište (settlement), at the northern camp gate (*porta praetoria*), and in the area of the amphitheatre, which after it was closed down was used as a burial site. Up to now, the Thermae area delivered the largest Late Roman ceramic unit, with 12.904 processed fragments, 403 identified vessels and a large number of different forms. All types of dishes for food preparation are present (pots, bowls, lids), as well as food serving vessels (plates, jugs, beakers), and those for storage and transport (pithoi, amphorae).

The vessels are mostly made of sandy clay, most often in grey fabric. There are also vessels of sandy structure and reddish brown, brown or grey-brown fabric. Glazed pottery is present in great numbers and of all types. Far rarer are vessels made of fine-texture clay and red texture.

Pots are the most frequent of all vessels, and they are also the most diverse, with a total of 34 different forms (fig. 4,7–15). They are mostly made of sandy clay, the fabric is grey or greyish brown. There are surfaces with combed ornaments, or ribbed surfaces with notches (fig. 4,16). Among the pots, an olive-coloured glazed one is remarkable, it is the only one of its kind in that group. It has the shape of a pithos, and was

probably used for food storing, but its dimensions are smaller than those of the other vessels in the group of pithoi (fig. 4,12). It was discovered on the brick pavement in the southern area of Thermae, along with coins, according to which this unit is dated back to sixth or seventh decade of the 4<sup>th</sup> century. Characteristics similar to those of the pots, were also recognized with the lids. Therefore, based on their diameters and rim sizes, it is assumed that lids were most probably used for the covering of the pots. They appear in 20 different shapes (fig. 5,19–31). Beside these lids, there are also rarer lids made of medium fine-texture clay of red fabric and with glazed or coloured surface in different shades of red (fig. 5,20–21).

At the area of Thermae also a large number of bowls (fig. 5–6,32–46) was registered – almost 30 types were identified. In this functional group the most common are various types of *mortaria*. As vessels for food preparation – chopping up, grinding and pouring out – they usually show a broad rim and a strengthened interior edge that forms a drain, have a flat, stable bottom base and a rough interior surface. They differ in rim profiles and shapes of the body, basically they show deeper conical forms. They are made of a sandy clay with grey fabric and are glazed in an olive colour. The interior rim is roughened and a drain outflow has been made on the rim. The rim diameters of these *mortaria* reach up to 40 cm, the bottom diameters are up to 15 cm, while the height varies from 10 to 20 cm. Among these *mortaria* we can distinguish two types, where differences in their profile correspond to their chronology. The first variant, where the interior edge of the rim is at level with the outer one, appears in layers of the second half of 3<sup>rd</sup> century (fig. 5,34). The second variant, where the interior brim is placed higher than the outer one and with an outer diameter which does not exceed 34 cm, dates to the first half of the 4<sup>th</sup> century (fig. 5,32). Similar *mortaria* are found across Upper Moesia, as well as in Pannonia, where according to their contexts they are dated in the period from the end of 3<sup>rd</sup> to the mid of the 4<sup>th</sup> century.<sup>1</sup>

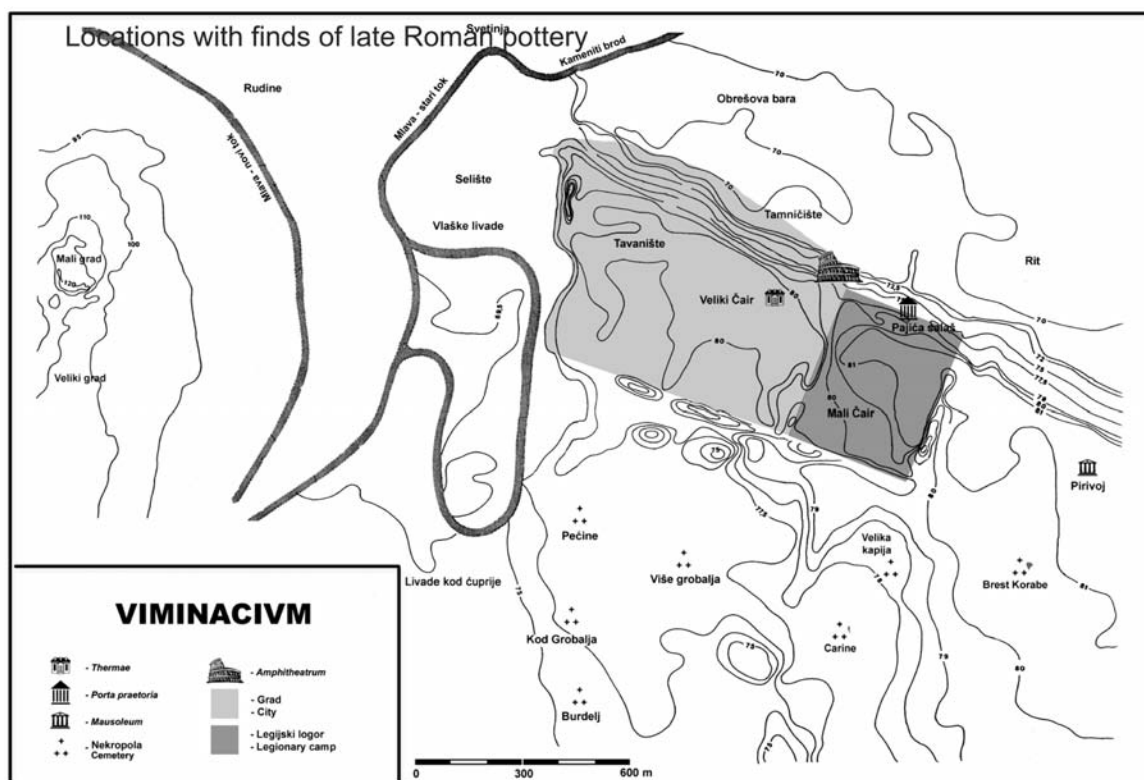
Along with the *mortaria*, glazed bowls were found in a great numbers. There are several variants of such bowls, with conical and spherical bodies. Although there are different profiles, the rims often show notches, cuts and concentric circles. In the layer around conha III, an olive-green glazed pathera was found, with a profiled, hollow handle (fig. 7,50).<sup>2</sup>

<sup>1</sup> BRUKNER 1981 pl. 61.

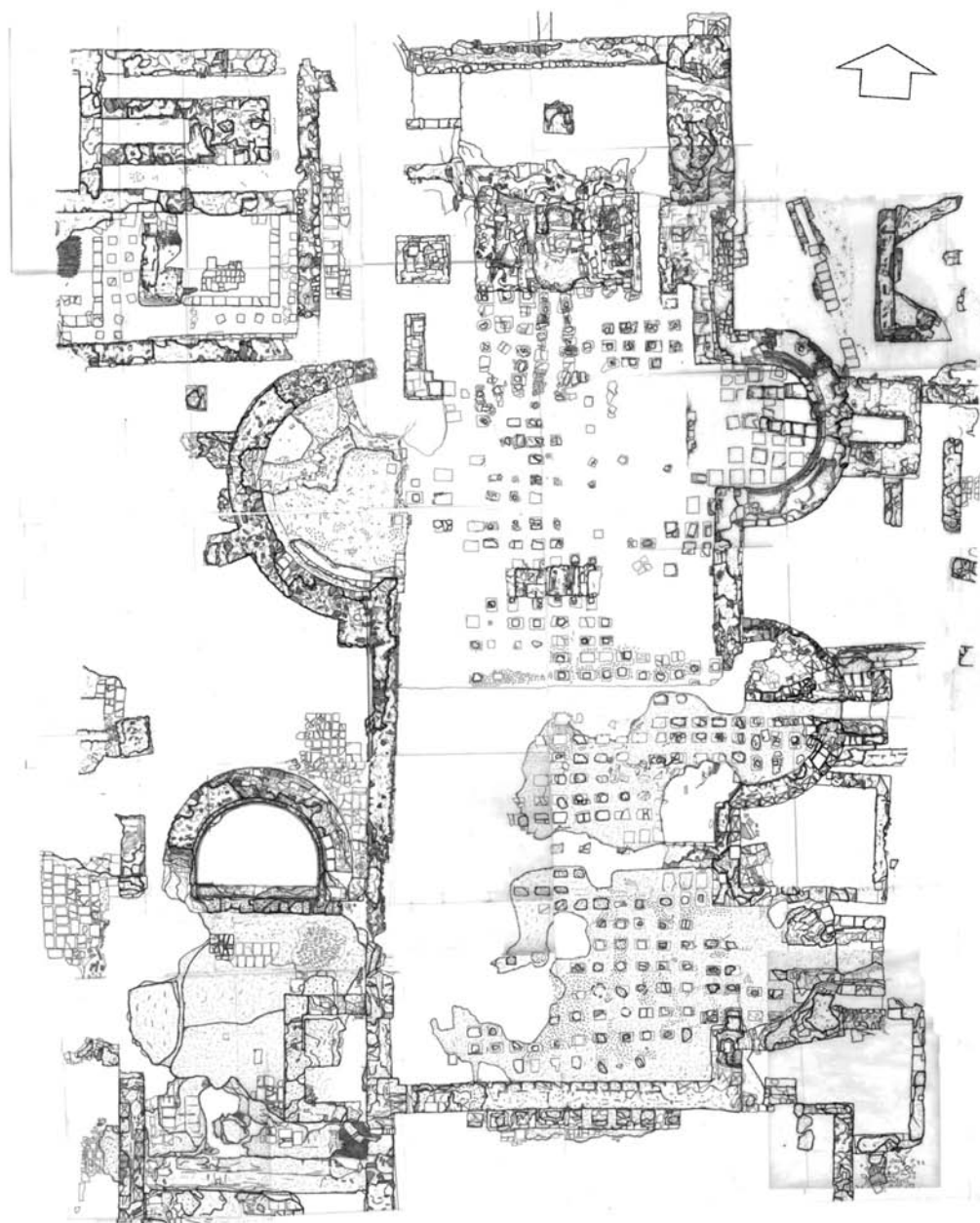
<sup>2</sup> CVJETIČANIN 2006, 33.



**Fig. 1.** *Viminacium*, the capital of the province *Moesia Superior*, is located in the area of the village of Stari Kostolac, 90 km east of Belgrade.



**Fig. 2.** *Viminacium*. Plan of the *thermae*.



**Fig. 3.** *Viminacium*. Places with finds of late Roman pottery (RAIČKOVIĆ 2007, 76).

A small number of plates<sup>3</sup> (only five different types) represent a higher quality table dish in this unit. In contrast to other vessels, they are mostly made of fine-texture clay with red or brownish grey fabric, while their surface is glazed or red coloured.

Jugs appear only in five different types (fig. 7,51–54).<sup>4</sup> They are mostly made of sandy clay with grey fabric and have olive coloured glazed surfaces. Most types have one handle, with the exception of two specimens which have two handles (fig. 7,52–53). Vessels with trefoil rims sometimes have a broad neck.

There is also a very small number of beakers (fig. 6,48–49). Among them one stands out that is ornamented with stamps in concentric circles and lines, and which was made of medium fine-texture clay and shows an outer surface coloured in shades of grey (fig. 6,48). By coin finds it was dated to the mid 4<sup>th</sup> century.

At *Thermae*, *pithoi* are represented with four types. They were discovered in fragmented condition, so their heights cannot be determined. *Pithoi* with spherical form and horizontal rim were made of sandy clay with reddish brown fabric and traces of glazing on the outer surface (fig. 7,60–61). Also, one *pithoi* was found with handles that start at the rim and end at the wide, plump belly (fig. 7,61). It was

<sup>3</sup> RAIČKOVIĆ 2007 pl. 8,77.79.

<sup>4</sup> NIKOLIĆ-ĐORĐEVIĆ 2000, 142; CVJETIČANIN 2001, 55.



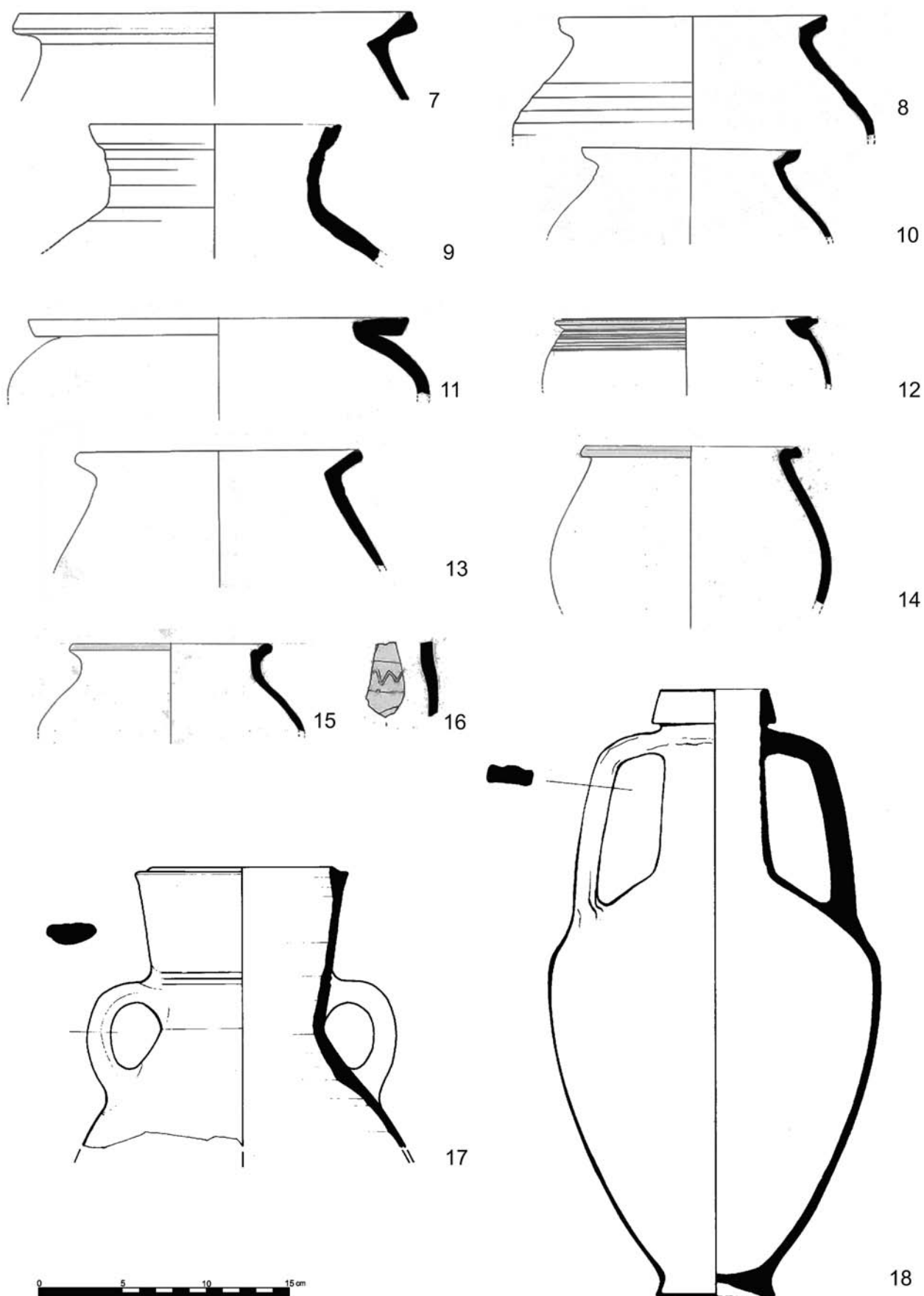


Fig. 4. Types of pots (drawings D. Rogić).

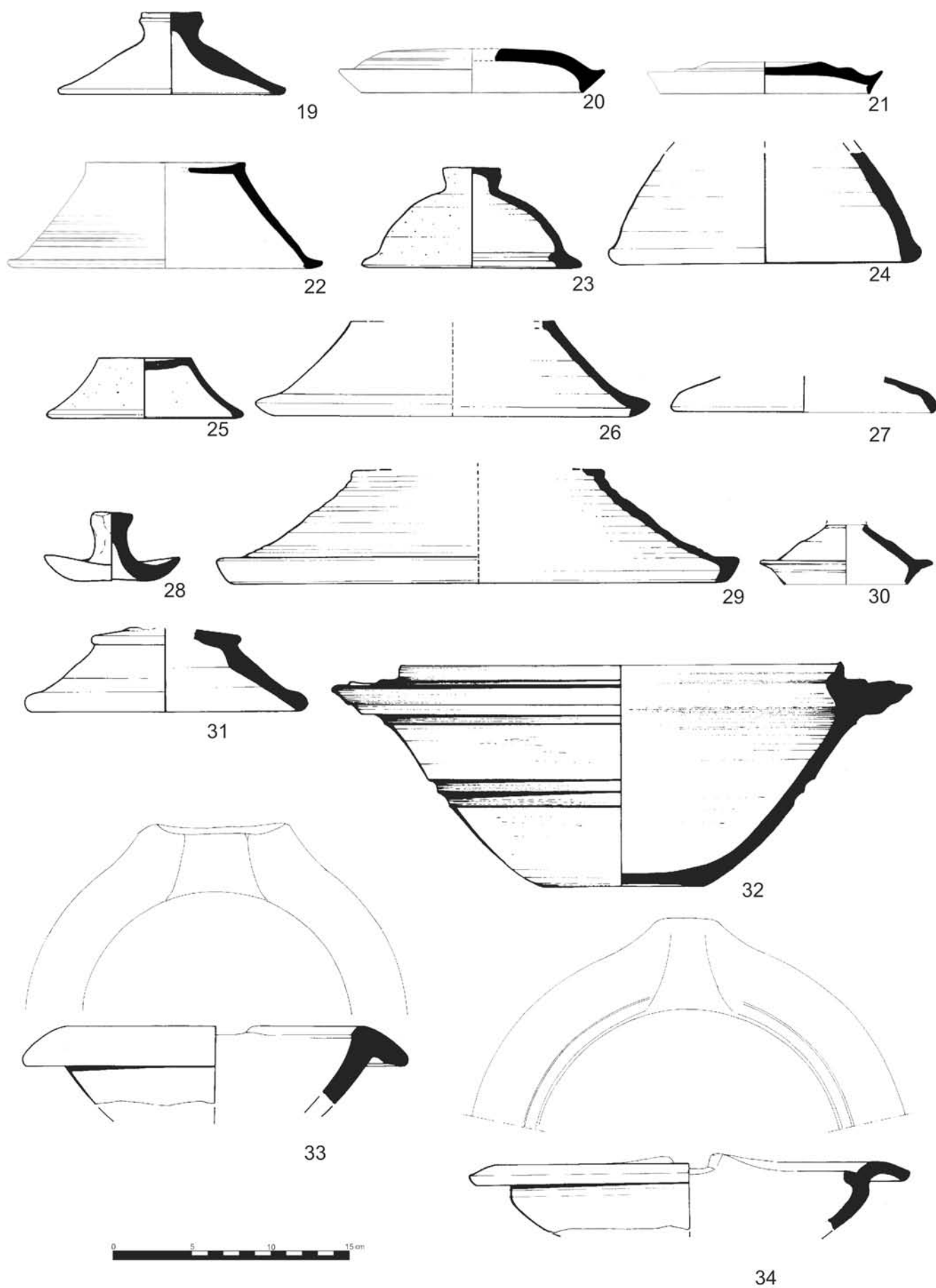


Fig. 5. Types of pots (drawings D. Rogić).

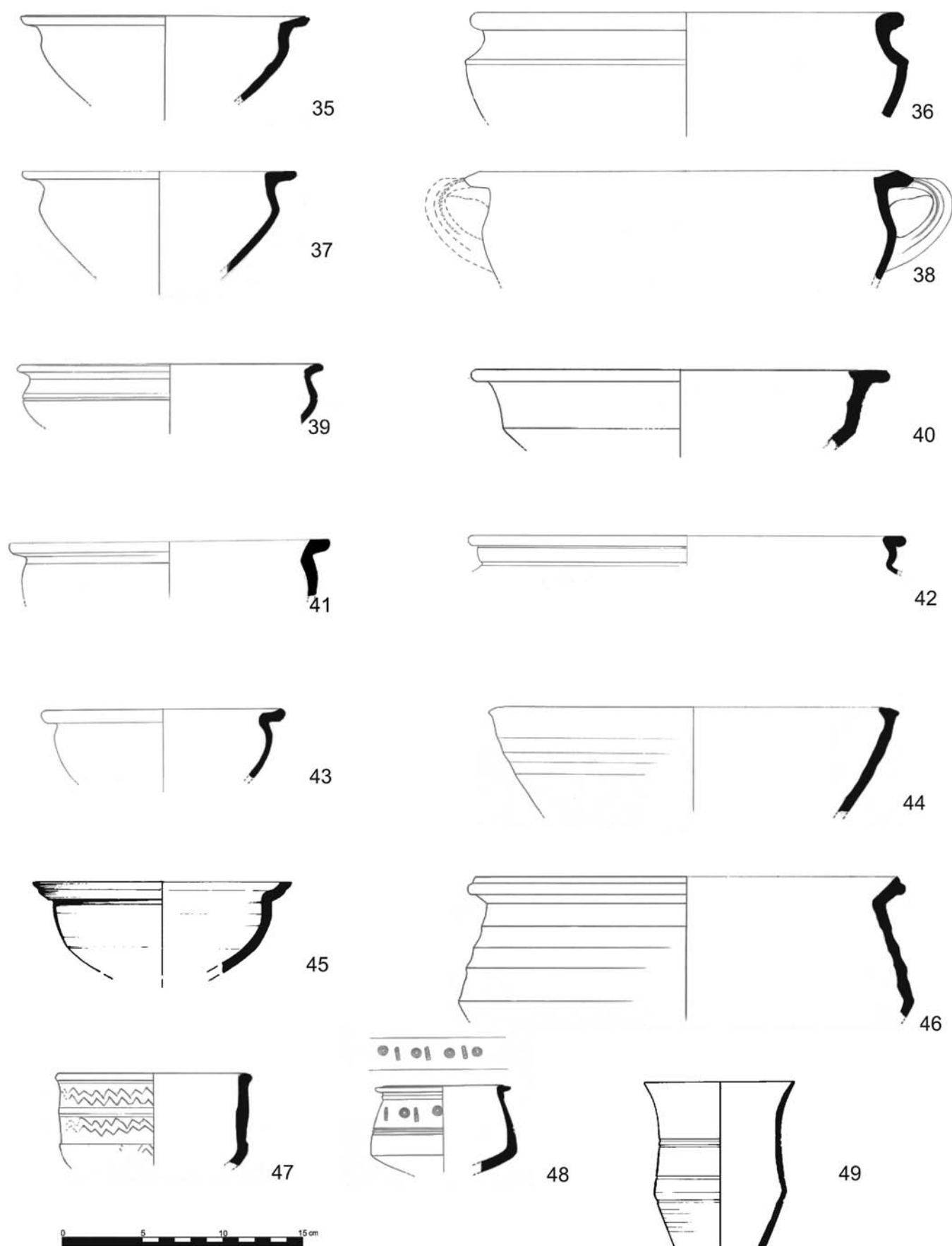
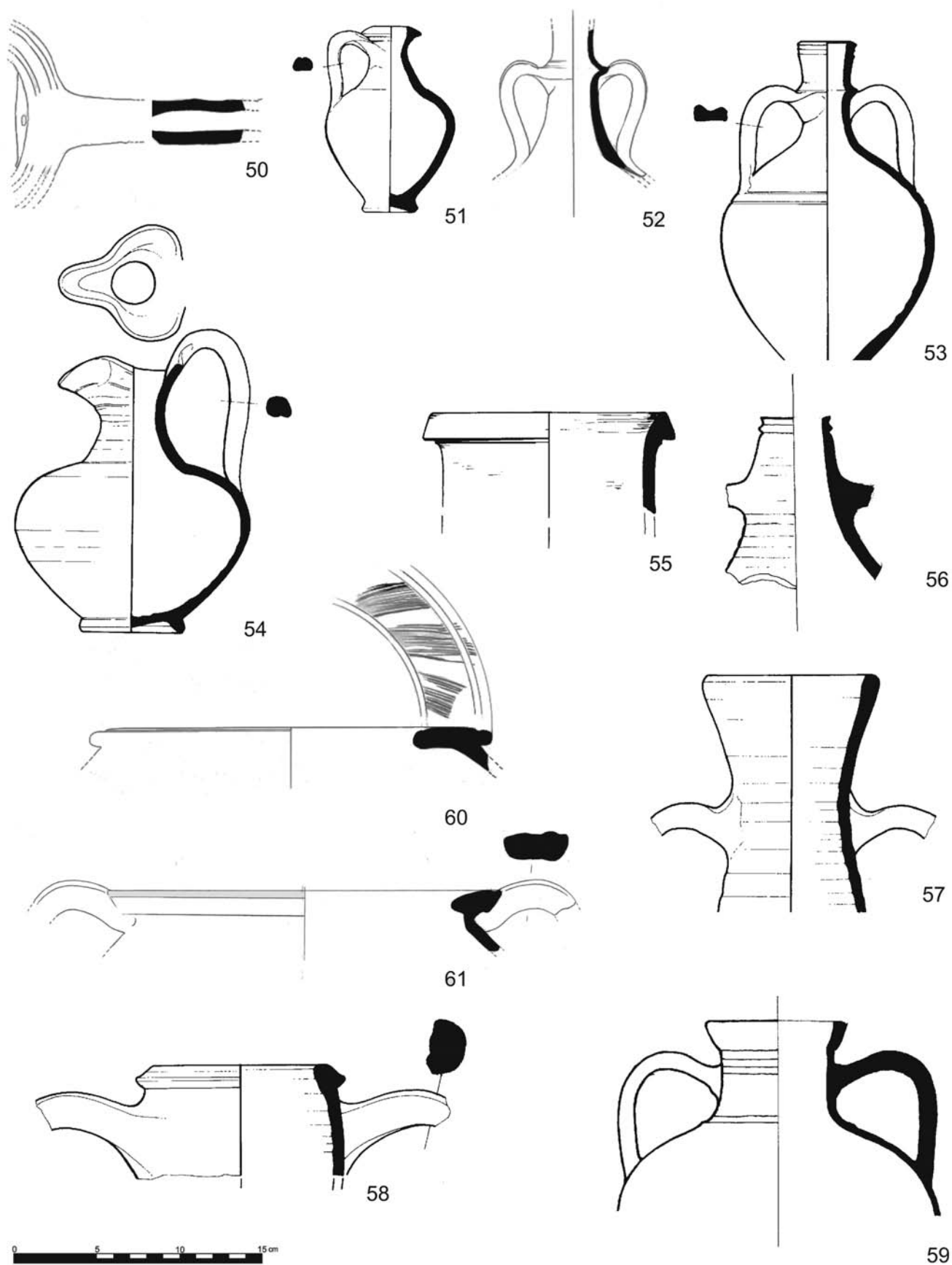


Fig. 6. Types of pots (drawings D. Rogić).



**Fig. 7.** Types of pots (50 CVJETIĆANIN 2006; 51–54 NIKOLIĆ-ĐORĐEVIĆ 2000, 142; CVJETIĆANIN 2001; all other drawings D. Rogić).

made of sandy clay with grey fabric and unprocessed outer surface. There were also pithoi of finer textures, like the vessel made of medium fine-texture clay and grey fabric, there the outer surface was decorated with an ornament made by polishing (fig. 7,60).

The *amphorae* (fig. 7,53–59) are mostly imports. Most common are Pontic amphorae of the types Riley LR1 and LR2.<sup>5</sup> They are made of medium fine-texture clay in a red fabric, while the outer surface shows a yellowish white slip. These amphorae are widespread, and their highest concentration was evidenced in areas around the Black Sea and lower Danube. Beside those Pontic amphorae, other types of amphorae are also present, which are assumed to belong to the *Viminacium* production.<sup>6</sup> These amphorae were made of medium fine-texture clay in a red fabric, while the outer surface mostly shows several shades of red colour. On amphorae of grey fabric, which are much rarer than the red ones, the outer surface is crude or dark-grey coloured. Such amphorae are found at all excavation sites, and they appear during a long period, from the 2<sup>nd</sup> to the end of the 4<sup>th</sup> century.

On the basis of other finds, primarily numismatic material, the Late Roman pottery found in the area of *Thermae* is dated to the period of the second to seventh decade of 4<sup>th</sup> century.

The collection of vessels from *Thermae* presented here illustrates a local production of Late Roman pottery, where

the functional pottery is more common than the luxurious one. The ratio of table and kitchen ware is in favour of kitchen ware with over 75%, while vessels for transportation and storage of food are represented with 10%. The imports mainly consist of amphorae.

The question of local origin is very important for the glazed pottery. A former discovery,<sup>7</sup> traces of glaze on the grill of a kiln in a complex at the *canabae militaris* and glazed vessels in the contents of the kiln, which is dated with a Constantinian coin, confirmed the assumption that there were workshops for the production of glazed pottery in the area of *Viminacium*. This assumption is also supported by numerous samples of glazed vessels from the area of *Thermae*. Also, a further step to a better understanding of the local production of pottery is provided by the results of the latest physical-chemical analyses that were published recently by Walton and Tite in *Archaeometry*.<sup>8</sup> Therefore we expect for the future that the processing and analysis of Late Roman pottery from other excavations at *Viminacium*, which are still in progress, will allow a better insight in the character of Late Roman pottery at this area and, consequently, a better understanding of the pottery production in the area of the Balkan provinces as a whole.

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<sup>5</sup> BJELAJAC 1996, 67–76.

<sup>6</sup> Ibid. 98–103.

<sup>7</sup> Ibid. 104.

<sup>8</sup> WALTON 2010, 736–750.

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