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SDC 97

WATCHING BRIEF AND EXCAVATIONS

IN

FINKLE STREET AND MICKLEGATE,

SELBY,

NORTH YORKSHIRE

FOR

SELBY DISTRICT COUNCIL

VOLUME 4

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**SDC 97**

**APPENDIX 3**

## **The leather from Selby, Yorkshire (SDC97)**

### **Methodology**

The leather was studied following conservation by freeze-drying by the Conservation Department of York Archaeological Trust. During this procedure the leather was drawn to monitor shrinkage so that a sketch of the leather prior to treatment is available for consultation with the archive. This report takes the form of a summary of the total assemblage with quantification, followed by a description of the material recovered from each trench and tree pit to provide information for integration into the main stratigraphic report. A small amount of additional background information to place the assemblage in its local and regional context, selected illustration and an accompanying catalogue of the illustrated items would be required for publication.

### **Introduction**

A relatively large assemblage of well-preserved leathenwork was recovered from excavations at Selby (SDC97) (see accompanying catalogue). Leather was recovered from Trenches 1-4 and 5 AD connection and Tree Pits 1-9 and 11. The leather comprised principally of shoes of turnshoe construction and medieval date, and waste leather. A small number of other items were found, most notably an archer's bracer (TP3 3457) (fig 2), a cut down knife sheath (TP6 3491) (fig 3) and a suspension strap (T4 3297/8 Gully AA). A small quantity of shoe components of welted construction dating to the post-medieval period were also recovered including a turn-welt for a broad-toed shoe of earlier 16<sup>th</sup> century style (TP1 3405) and a Victorian working boot of Derby or Blucher style (TP7 3520). The medieval shoes form a fairly closely dated group, with styles popular in the 13<sup>th</sup>, 14<sup>th</sup> and early 15<sup>th</sup> centuries being recognised. They were all deposited within the space of 200 years, the majority probably in a 50 year period. A relatively high proportion of turnshoe soles and clump sole repairs were found, and many of the individual items had been deliberately cut up to salvage re-usable leather before being discarded indicating that much of the medieval leather found represents cobbling waste.

Primary waste, that is unusable parts of the hide or skin including hide edges, bellyskin and udders, was also found. Currying waste in the form of shavings produced when panning down the thickness of the tanned hides, was found in samples taken from Trench 5 AD connection. Secondary waste produced when cutting out pattern pieces and trimming the pieces to fit were also found, including intersectional cutting pieces and other shapes characteristic of cutting out shoe soles when shoemaking. At Selby at least three branches of the leatherworking trades were represented, currying, shoemaking and cobbling.

### **The medieval shoes [fig 1]**

Shoes of seven principal types were found at Selby: a drawstring fastening ankle boot, toggle-fastening shoes and boots, side-lacing boots, front-lacing

ankle boots, ankle boots fastening at the front with laces and small buckles, and low cut latchet-fastening shoes [fig 1 1-1 6] High cut vamps and two-part quarters were also found and are likely to come from boots, but they were not associated with any other related components so the exact style of the boots is unknown. The majority of these styles appear to have been worn throughout the country. They have been found at York and may be paralleled by examples from the excavations at 16-22 Coppergate (forthcoming), and have been found in quantity in well-dated waterfront deposits in the city of London (Grew and de Neergaard 1988), from which the dating for the Selby shoes has been taken.

#### Drawstring fastening ankle boot [fig 1 11]

The earliest shoe style represented was an ankle boot with a one-piece upper fastening with a thong wrapping around the ankle. It was found in TP7 3579 (fig 4), a context containing pottery of 11<sup>th</sup>-14<sup>th</sup> century date. The low boot is comparable to examples found in early-mid 13<sup>th</sup> century deposits in London (ibid 18 nos 21-23).

#### Toggle-fastening shoes and boots [Fig 2]

The remains of a possible five examples of shoes and boots made principally from a one-piece upper fastened at the front with toggles were recognised. The quarters area of a calfskin ankle-shoe with a three toggle fastening [fig 1 2a] was found in TP7 3604 (fig 5). A latchet broken from a sheep/goatskin shoe fastening with two toggles [fig 1 2b] was found in TP4 3730, while a separate calfskin latchet with two fastening holes from a similar shoe or a low-cut latchet fastening shoe (see below) was found in TP6 3486. Two components from toggle-fastening boots [fig 1 2c] that extended higher up the leg were found. One (TP4 3696) (fig 6) of goatskin had two toggles present, the other of calfskin (TP2 3431) had two fastening slots present through which the toggles passed. Toggle-fastening ankle-shoes and boots (Grew and de Neergaard 1988, 58-9 nos 91-3) were popular in London in the late 13<sup>th</sup> and early 14<sup>th</sup> centuries (ibid 21) though they appear to have been introduced in the early 13<sup>th</sup> century.

#### Side lacing boots [fig 1 3]

Low boots made with a one-piece upper of calfskin and fastening with multiple lace holes at the side were a commonly found style. The lace holes were reinforced by internal linings and the uppers strengthened at the centre back of the quarters area by an internal heel stiffener. Components from five side lacing boots were found (T1 3046 (fig 7), TP2 3431, TP3 3457, TP7 3570 and TP8 3589 (fig 8)). The better preserved examples had 12 lace holes (TP8 3589) and eight lace holes (T1 3046) surviving. Side lacing boots were popular in London from the early/mid 14<sup>th</sup> through to the early 15<sup>th</sup> century.

#### Front lacing boot [fig 1 4]

A low boot with a one-piece upper of calfskin joining with an angled (dog-leg) side seam was found in TP3 3457 (fig 9). The shoe laced at the front through at least eight pairs of lace holes that had been strengthened by the addition of an internal lining. A heel stiffener supported the centre back of the quarters area. The shoe was for the left foot with a sole made in two parts joining with

a butted edge/flesh seam across the tread. A rectangular insert piece with a series of five lace holes, originally internally lined (TP5 3556) and a fragment with four lace holes (TP7 3538) may come from a multiple front lacing boot or a multiple side lacing boot like those described above. Boots fastening through multiple lace holes at the front are less commonly found than ankle boots and shoes of the same basic design fastening with divided laces through four pairs of lace holes, both types are found in late 14<sup>th</sup> century deposits in London and elsewhere. A fragmentary vamp (TP3(B) 3458) with a pair of holes for a divided lace may come from a front fastening boot with either lacing or lace and buckle fastening, see below. Another ankle boot with a one-piece upper was found in TP3 3459 (fig 10). This also had a central opening, but the method of fastening is not preserved. Again, it is most likely to have fastened at the front with a divided lace and a small metal buckle (see below).

#### Ankle boots fastening at the front with a divided lace and a small metal buckle [fig 1 51]

A maximum of seven ankle boots made with one-piece uppers fastening at the front with a divided lace at the instep and a metal buckle and strap higher up the leg were recognised. Where the upper leg has not been preserved (TP2 3431) it is difficult to distinguish this style from that fastening with four pairs of lace holes at the front described above. At Selby this laced and buckled boot is common (T4 3298 Gully AA (fig 11), T4 3326 Gully AD, T4 3344 AD connection, TP2 3429 (fig 12), TP4 3705 and TP6 3486 (fig 13)). These boots of calf or cattlehide had large bellows tongues at the throat and heel stiffeners supporting the centre back. A small, circular buckle of pewter with an iron pin was found attached to two of the examples (TP2 3429 and TP6 3486 (fig 15) also with thread present). Boots of this exact type have not been found at 16-22 Coppergate, York, though at that site boots of similar style were found that fastening with a toggle at the instep and a metal buckle above. Similar boots fastening with small buckles but lacking the divided lace at the instep were popular in London in the early 15<sup>th</sup> century and this laced and buckled style from Selby is likely to be of the same date.

#### Low cut latchet-fastening shoes [fig 1 61]

Components from low cut shoes of later 14<sup>th</sup> century date were found. A sole and corresponding low cut vamp with a pointed toe stuffed with moss was found in T2 3106. One-piece quarters with a distinctive asymmetrical cutting pattern raised at centre back found on shoes of this style were found in contexts TP3 3457, TP3 3458 and TP6 3486 [with thread present]. Separate latchets extending into long divided laces by which shoes with front latchet fastenings were tied over the instep were found in TP3 3511 and TP4 3718. A separate latchet [fig 1 6b] with a pair of oval fastening holes through which the divided lace was tied was also found (TP3 3458, thread present).

#### Other boots

Three vamps (TP2 3106, TP5 3543 and TP7 3579 (fig 14)), two with pointed toes surviving (T2 3106 and TP5 3543), were found with high cut straight throats suggesting they come from boots and unlikely to date before the early 15<sup>th</sup> century. In addition, a fragment apparently cut from the left side of two-

part quarters of similar date was found in TP7 3570 and a fragment from another example in TP3 3457

## References

Grew, F and de Neergaard, M 1988, Shoes and Pattens Medieval finds from excavations in London 2 London HMSO

Mould, Q, Carlisle, I and Cameron, E, forthcoming, Craft, Industry and Everyday Life Leather and Leathenworking in Anglo-Scandinavian and Medieval York The Archaeology of York The Small Finds 17/00

## Summary of the leather by trench and Tree Pit

### Trench 1 (T1)

A small assemblage of leather was recovered from five individual contexts in trench 1 located on the south side of Finkle Street Late medieval shoe components and secondary waste leather were recovered principally from context 3046 a build-up layer containing pottery of 14<sup>th</sup> and 15<sup>th</sup> century date The shoe components came from a minimum of 9 shoes The shoes were heavily worn and repaired The styles found included a low boot, rising above the ankle, for the right foot with a one-piece upper fastening at the side with multiple lace holes, a style popular in early/mid 14<sup>th</sup> and also early 15<sup>th</sup> century Two examples of one-piece quarters from side latchet fastening shoes of late 14<sup>th</sup> century date were also recovered Shoe soles found had pointed toes and wide waists Three items had been cut to salvage reusable leather before being discarded suggesting that the group represented the disposal of cobbling waste In addition one shoe with a pointed toe stuffed with moss had the vamp slashed vertically from the throat toward the toe but this is likely to have been to ease a badly fitting shoe that was too tight across the instep

### Trench 2 (T2)

A small amount of leather was found in three contexts in Trench 2 from the north side of Finkle Street This may suggest that the leather bearing deposit fades out to the north A minimum of five shoes are represented and a small amount of waste leather Two items had been deliberately cut to salvage reusable leather suggesting cobbling debris The remains of two shoes were found in context 3106 a layer containing 14<sup>th</sup> and 15<sup>th</sup> century pottery The first is a low cut shoe for the right foot with an outward pointing extended toe stuffed with moss The shoe fastens over the instep with a latchet and either a buckle or a divided lace characteristic of the late 14<sup>th</sup> century The second shoe was represented by the vamp also with an extended pointed toe and likely to come from a boot

### Trench 3 (TP3)

A small group of leather was recovered from four contexts in trench 3 located on the north side of Micklegate The leather occurred principally in occupation

layers containing pottery of medieval and early post-medieval date (12<sup>th</sup>-17<sup>th</sup> century) Shoe components from at least two shoes of welted construction, dating to the post-medieval period and shoe components of turnshoe construction and of medieval date waste were recovered from an occupation layer (context 3224) situated in the middle of the north side of Micklegate Secondary waste leather was also found in this deposit and included pieces characteristic of shoemaking Two turnshoe soles with narrow waists suggesting a late medieval date were recovered from contexts 3226 and 3204, the latter located close to Finkle Street

#### Trench 4 (T4)

Leather was found in 13 individual contexts in trench 4 to the south side of Micklegate Gully AD at the SE end of Micklegate contained components of shoes of turnshoe construction, lengths of strap and waste leather Primary waste leather including hide edges, teats and bellyskin, apparently from both cattle and sheep/goat were present suggesting the processing of hides possibly currying debris is represented The shoe parts represent a minimum of 7 shoes, and appear to be cobbling waste Diagnostic pieces include one-piece quarters from a side latchet fastening shoe with a divided lace of late 14<sup>th</sup> century date A minimum of 2, and possibly 3, ankle boots made from one-piece uppers joining with a dog-leg side seam and fastening at the front with a divided lace and a small metal buckle were found Shoes of this cutting pattern fastening with small metal buckles were popular in London during the early 15<sup>th</sup> century

Four lengths of strap of varying widths were found in Gully AD, three of bovine leather and one of sheep/goatskin The single example of sheep/goat has a pointed terminal with a slit fastening hole suggesting it represents a broken handle comparable with that attached to a drawstring pouch from Baynard House, London (Egan and Pritchard 1991 346 fig 228 no 1695) dating c 1330-1380 The strap handle fitted into the top corners of the pouch with the drawstring of the pouch passing through the slit terminals to hold the handle in place A lentoid piece of calfskin with a fine grain/flesh stitch from a closed seam around the edges was also recovered It is of the same shape as a lentoid panel from a multi-paneled ball, but creases from wear running vertically from point to point seem inconsistent with this interpretation It may come from a pouch or possibly an item of clothing

Leather was also recovered from Gully AA located in the middle of the south side of Micklegate The leather included a strap with rounded terminal with two pairs of larger holes and two of smaller, extending into the beginnings of two split arms (T4 3297/8\*) It is reminiscent of a scabbard suspension strap from York and may be a suspension strap secured to a belt by laces passing through the holes

Small quantities of secondary and primary waste including bellyskin and hide edges from the initial cutting up of hides and discarding of unusable parts found in context 3297/8/9

The remains of a minimum of four shoes, including three turnshoe soles one of which had been cut before being discarded and most of a front fastening ankle boot also deliberately cut, were recovered from context 3298. The front fastening ankle boot had an outward-pointing, extended toe and fastened with a divided lace at the instep and probably a small metal buckle and strap higher up the leg.

A very small amount of secondary waste leather and two shoe components were recovered from gully W, XY and Z toward the northern end of Micklegate on the south side.

#### Trench 5 AD connection (T5)

In addition to the excavated leather described above, leather was retrieved from sieving one of the three 7 litre tubs sampled during machine trenching a feature of unknown size located on the south side of Micklegate toward the Finkle Street end (T5 AD connection context 3327). Mixed with the 'fine brown woody silt' were numerous small fragments of primary waste comprising unusable areas of hide, including fragments of udder, and shavings from panning down tanned hides to the required thickness. A small amount of secondary waste was also present. This material is a dump of waste likely to come from a currier's workshop where tanned hides were worked to produce leathers of the required flexibility and thickness to be sold on to the leatherworkers.

#### Tree Pit 1 (TP1)

Leather was recovered from 8 individual contexts from Tree Pit 1 located on the north-west side of Micklegate (opposite AA on the south side). Components from shoes of turnshoe construction were found in contexts 3411, 3415, and 3416. These include the highly fragmentary remains of a side-lacing boot (3415) and a buckle-fastening boot (3411) each from occupation layers containing 14<sup>th</sup>-16<sup>th</sup> century pottery. Two fragments of turnwelt were found in the fill (3405) of a sewer trench. The larger piece has the characteristic broad toe shape from a style of shoe popular during the first half of the 16<sup>th</sup> century.

A small amount of waste leather was found in contexts 3400, 3409, 3410 and 3411. This included an intersectional cutting piece characteristic of shoemaking, found on a cobbled surface (3409) with pottery of 16<sup>th</sup>-18<sup>th</sup> century date. A disturbed occupation layer (3406) contained three pieces of strap of varying width, including one with buckle holes present. One of the straps had been deliberately slashed at one end and cut across the other.

#### Tree Pit 2 (TP2)

Leather was recovered from 9 individual contexts in Tree Pit 2 located to the north-east of TP1. A very small quantity of secondary waste of cattlehide was recovered from contexts 3422, 3430, 4431 and 3437, and primary waste from 3423 and 3429. A length of strap was found in an occupation layer 3431.



Welted shoe fragments were recovered in two contexts 3420 and 3423 that each contained pottery of 19<sup>th</sup> century date

The majority of the leather recovered came from shoes of turnshoe construction. Components from a minimum of 9 shoes were represented. A minimum of three items had been deliberately cut up before being thrown away and the high percentage of soles and clump repair pieces represented suggests that much of this is the debris from cobbling.

Remains of a toggle-fastening ankle shoe of calfskin was found in context 3431 an occupation layer containing pottery dating from the 12<sup>th</sup> to the 16/17<sup>th</sup> century. This common shoe style was popular from the mid 13<sup>th</sup> to the mid 14<sup>th</sup> century (for example Grew and de Neergaard 1988, 58 no 91-2). Two shoe soles with oval toes were found in contexts 3437 and 3429 that are also likely to date to this period. Three other shoe styles of late 14<sup>th</sup>/early 15<sup>th</sup> century date were recognised. A front lacing ankle boot of calfskin with a one-piece upper, and a side-lacing boot were found in context 3431B. A boot with an extended pointed toe fastening at the front with a split lace to fasten at the instep and a small annular buckle of pewter with an iron pin higher up the leg was found in an occupation layer (3429). A bellows tongue was present at the front opening and a large heel stiffener supported the centre back of the quarters area.

### Tree Pit 3 (TP3)

Leather was recovered from 12 individual contexts located to the north-east of Tree Pit 2. The leather comprises principally of shoe components of turnshoe construction and late medieval date, with a small number of other items represented. A single context 3443 contained fragments of components of welted construction from shoes dating to the post medieval period (16<sup>th</sup>-18<sup>th</sup> and 19<sup>th</sup> century).

37 turnshoe soles and sole fragments were found in TP3 representing a minimum of 26 individual shoes. Four two-part shoe soles were found and six soles had been deliberately cut up before being discarded. The high proportion of shoe soles, repair pieces and cut up items suggests that much of the material, particularly in contexts 3451, 3457-9, 3511, is the debris from a cobbler's workshop, the shoe styles represented suggest a date in the late 14<sup>th</sup> century [see below]. A small amount of secondary waste leather from shoemaking and primary waste from the disposal of unusable hide parts (in contexts 3451, 3455-8, and 3510) were also found. The shoe soles had either short or extended pointed toes, an extension of 30mm was noted. Shoe styles represented date to the late 14<sup>th</sup> century and were recovered from contexts 3457-3459, 3511. Components of latchet fastening shoes were found, along with an ankle boot of calfskin for the left foot lacing at the front through at least 8 pairs of lace holes. Another ankle boot with a one-piece upper was found with a central opening, the method of fastening is not preserved, however, it is most likely to have fastened at the front with small metal buckles.

Of particular interest was an archer's bracer or wrist guard found in context 3457. The oval guard has a small, centrally-pierced tab projecting from either side. This style of bracer has also been found at Carlisle (Sue Winterbottom pers. comm, dating awaited). The leather of the Selby example, 4mm in thickness, appears to have been cut from another item originally, probably a shoe sole. The reuse of leather in this way has been noted elsewhere. At 16-22 Coppergate, York an archer's bracer was found that had been made from the re-used parts of a latchet and buckle fastening shoe of late 14<sup>th</sup> century date, of similar date to the Selby example.

#### Tree Pit 4 (TP4)

Leather was recovered from 22 contexts on the north-west side of Micklegate, a smaller amount of leather from a larger number of contexts. Again the leather chiefly comprised components of shoes of turnshoe construction and primary and secondary waste. Five items had been deliberately cut up to salvage re-usable leather before being thrown away. A flood deposit 3739 containing pottery dating from the 11<sup>th</sup> to the 15<sup>th</sup> century contained a small quantity shoemaking waste and turnshoe soles whose shape may suggest a date at the earlier end of the period indicated by the ceramic dating. The majority of the leather is likely to be of later date.

Two diagnostic shoe components were recovered. An insert from a toggle-fastening boot from context 3706 and a fastening latchet from a toggle fastening ankle shoe from context 3730 were found, both styles popular during the mid to late 13<sup>th</sup> century (Grew and de Neergaard 1988, 58-9). For the most part, however, the shoe uppers were highly fragmentary. A minimum of 12 shoes are represented but the fragments may come from a much larger number of shoes. A folded and nailed fragment of sheep/goatskin from context 3706, may possibly be a strap torn from a wooden patten of a type worn in the early/mid 15<sup>th</sup> century. Intersectional cutting pieces of secondary waste leather characteristic of shoemaking were recovered from contexts 3706, 3710, 3714, 3735 and 3739. Primary waste from the initial processing and cutting of hides and skins was recovered from 3696, 3701, 3705, 3708, 3710, 3714, 3718, 2723, and 3739.

#### Tree Pit 5 (TP5)

A small amount of leather was recovered from 15 individual contexts in tree pit 5 located on the north-west side of Micklegate at the Finkle Street end. A fragment of welted shoe sole dating to the post-medieval period was found in context 3465 the fill of a cut. The other shoe parts were of turnshoe construction and medieval date but few diagnostic features were preserved. Soles with pointed, extended toes in 3543 indicate a late medieval date (later 14<sup>th</sup> and 15<sup>th</sup> century). An insert with five fastening holes (3556) comes from a side or front lacing shoe, both styles common in the later medieval period. Primary waste was found in contexts 3471, 3474, 35540 and 4549 and secondary waste in 3471-3, 3543, 3548 and 3552. Pieces cut from other items were recorded in contexts 3547-9, this, and the high proportion of sole leather and waste leather suggests that cobbling waste is represented. The

amount of primary waste recovered indicates that other types of leathenworking are also represented

#### Tree Pit 6 (TP6)

A small group of medieval leather was recovered from 7 contexts in TP6, located in the centre of Micklegate. A minimum of 9 shoes of turnshoe construction were represented by the shoe components found. Again the leather appears to be cobbling debris. Diagnostic shoe components were recovered from context 3486 and included a one-piece ankle boot fastening at the front with a divided lace at the instep and a small metal buckle and strap above, and pieces from latchet-fastening shoes of late 14<sup>th</sup> century date. The remains of the handle area cut from a knife sheath was recovered from context 3491. Little waste leather was found in Tree Pit 6.

#### Tree Pit 7 (TP7)

Leather was found in 12 contexts in TP7 located toward the northern end of Micklegate. A Victorian working boot of Blucher or Derby style for the right foot that had been deliberately cut up before being thrown away was found in context 3520. The rest of the leather comes from medieval footwear of turnshoe construction, along with remains of an unrecognisable item cut up before being discarded and a small amount of waste leather. Twelve items had been cut to salvage re-usable leather before being thrown away and the high proportion of sole and repair pieces suggests that this medieval leather is cobbling waste. Only a single piece of intersectional cutting waste characteristic of shoemaking was found in context 3577.

The earliest diagnostic shoe parts date to the 13<sup>th</sup> century. An ankle boot with a one-piece upper fastening with a thong wrapping around the ankle and likely to date to the early-mid 13<sup>th</sup> century (ibid, 18 nos 21-23) was found in 3579, a context containing pottery of 11<sup>th</sup>-14<sup>th</sup> century date. The quarters area cut from a toggle-fastening shoe comparable with an example from a mid 13<sup>th</sup> century context in London (Grew and de Neergaard 1988, 58 no 91) was found in context 3604. The other shoe parts come from boots. Remains of side-lacing boots popular in the early/mid 14<sup>th</sup> century were found in three contexts (3538, 3570, and 3574).

#### Tree Pit 8 (TP8)

A small amount of leather of medieval date was found in 8 individual contexts in TP8 at the Finkle Street end of Micklegate. Shoe components, apparently cobbling debris, and shoemaking waste were represented. The highly fragmentary remains of a one-piece ankle shoe fastening up the side through multiple lace holes, 12 of which remain, was found in context 3589 and may be dated to the mid 14<sup>th</sup> century.

#### Tree Pits 9 and 11 (TP9 & TP11)

A small amount of leather, apparently cobbling waste was found in TP9 located at the northern end of Micklegate. A fragment of a welted shoe sole of post-medieval date and a piece cut from a turnshoe sole of medieval date were found in context 3635, indicating the mixed nature of the deposit. A second component likely to come from a welted shoe upper was found in context 3637. Two secondary waste trimmings were found in TP 11 located close by.

fig 11

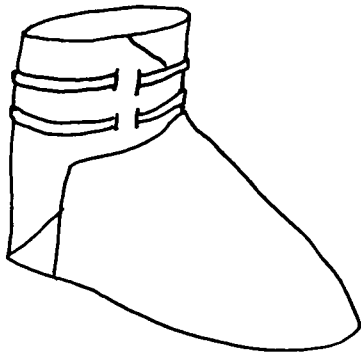


fig 12a



fig 12b

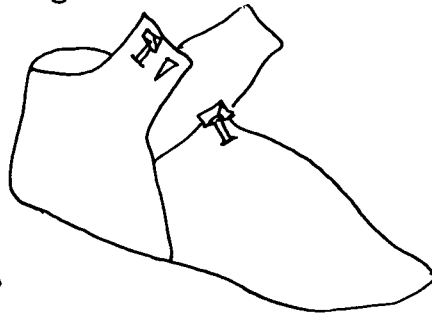


fig 12c

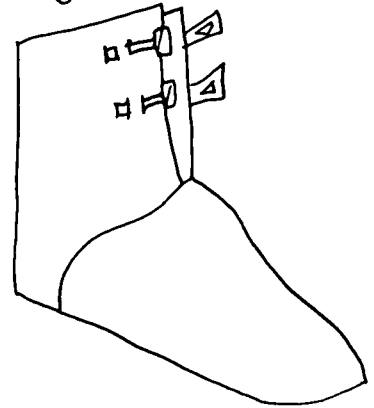


fig 13

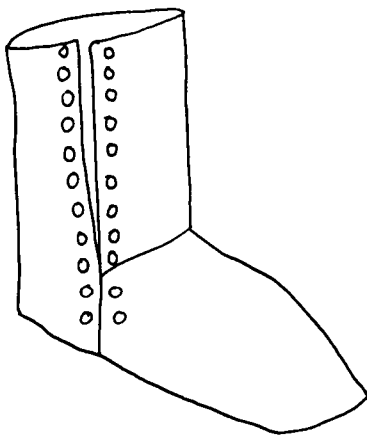


fig 14



fig 15



fig 16a

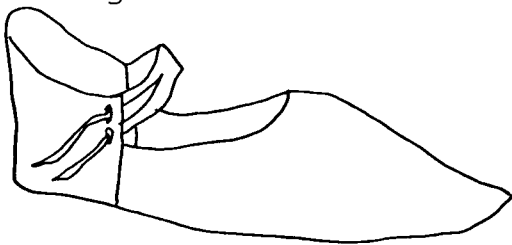


fig 16b



FIG 2 TP3 3457 Archer's bracer

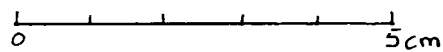
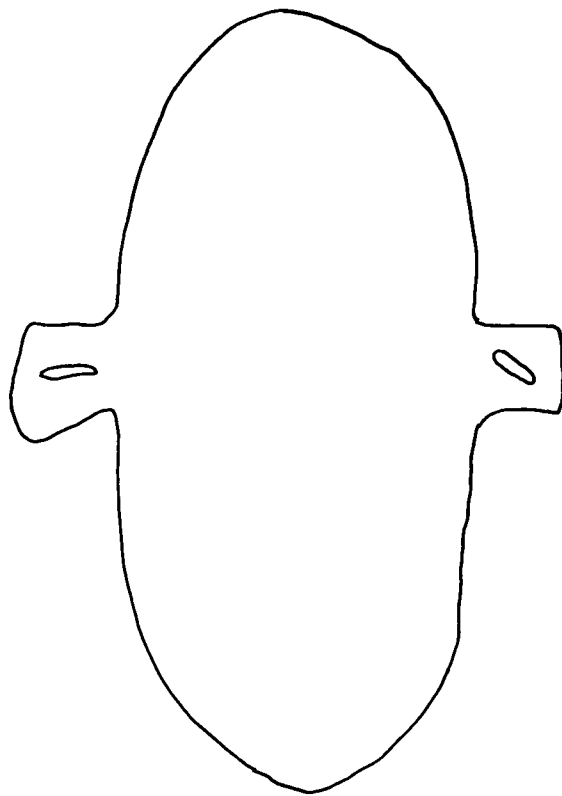


FIG 3 TP6 3491 knife Sheath

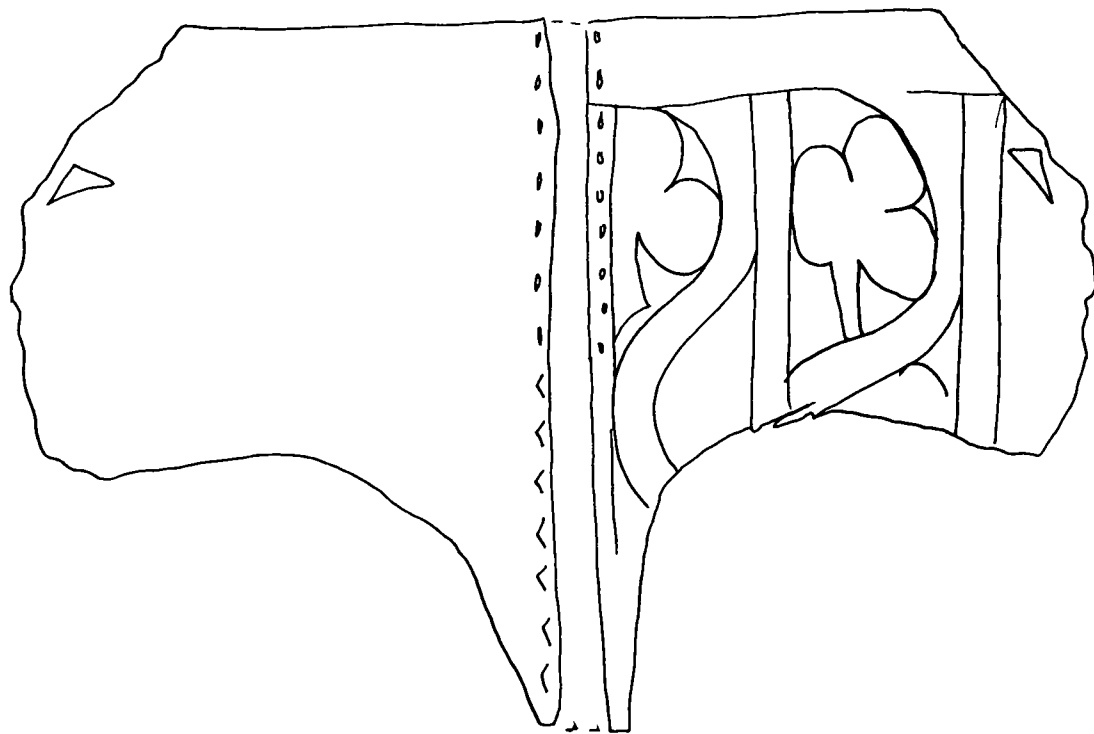
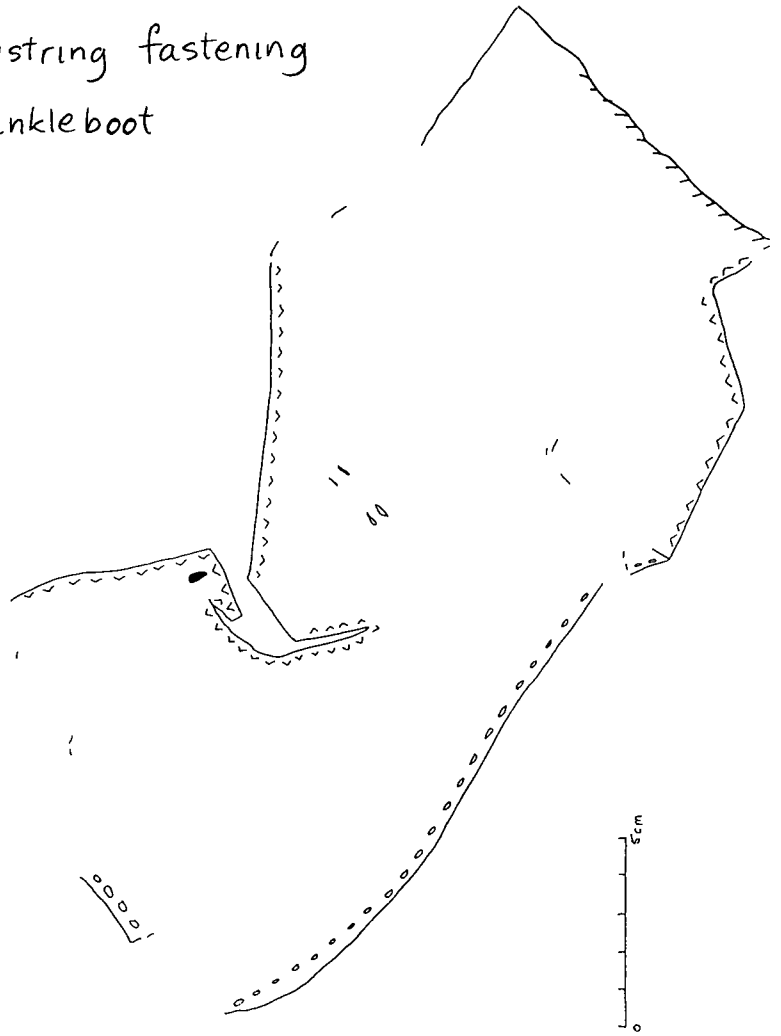
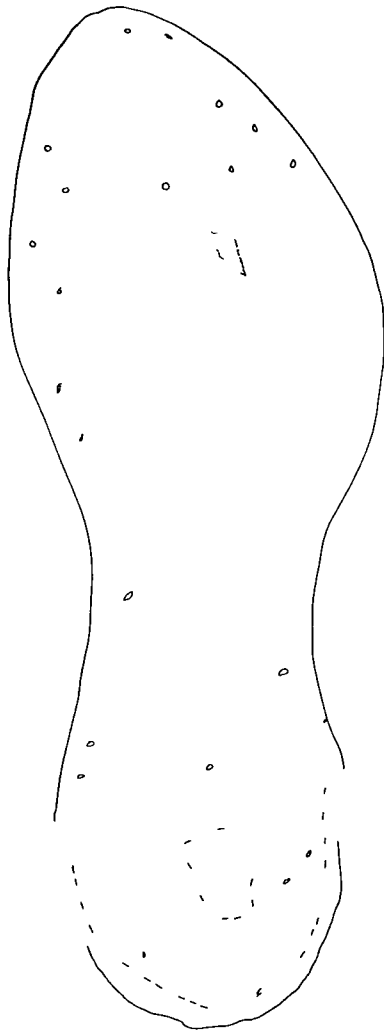
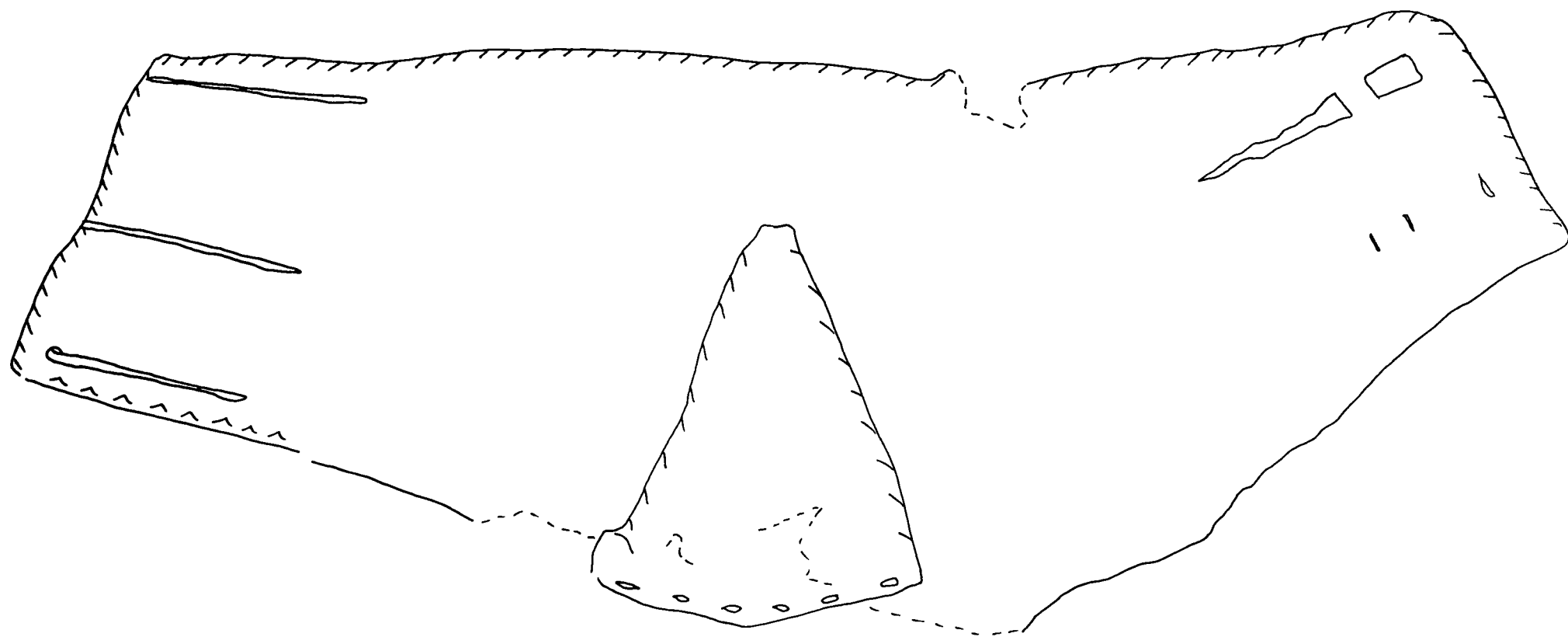


FIG 4  
TP7 3579

Drawstring fastening  
ankleboot





0 5cm

FIG 5 TP7 3604 Toggle-fastening shoe



FIG 6 TP4 3696 Toggle fastening boot

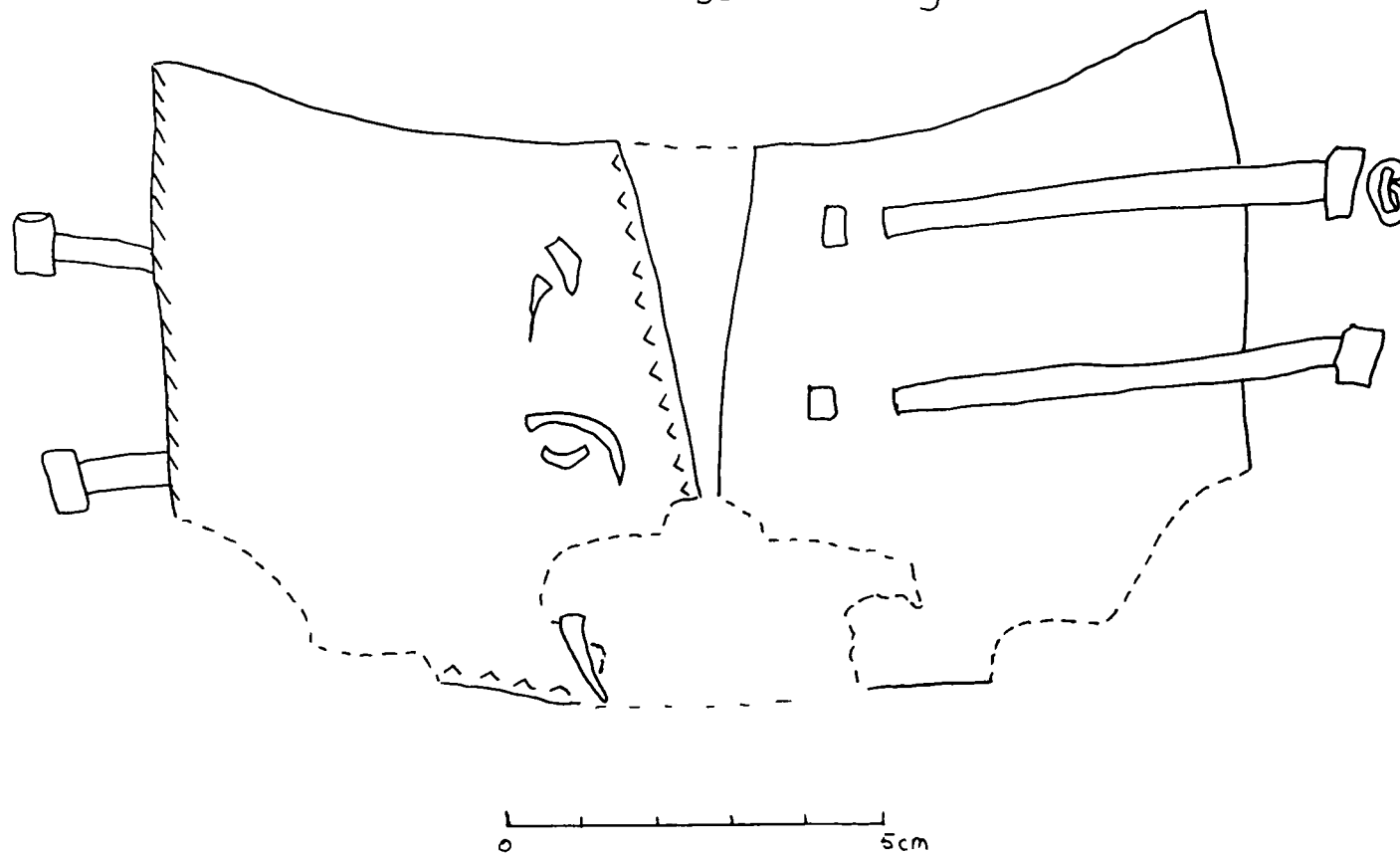


FIG 7 T1 3046 Boot, side lacing

0 1 2 3 4 5cm

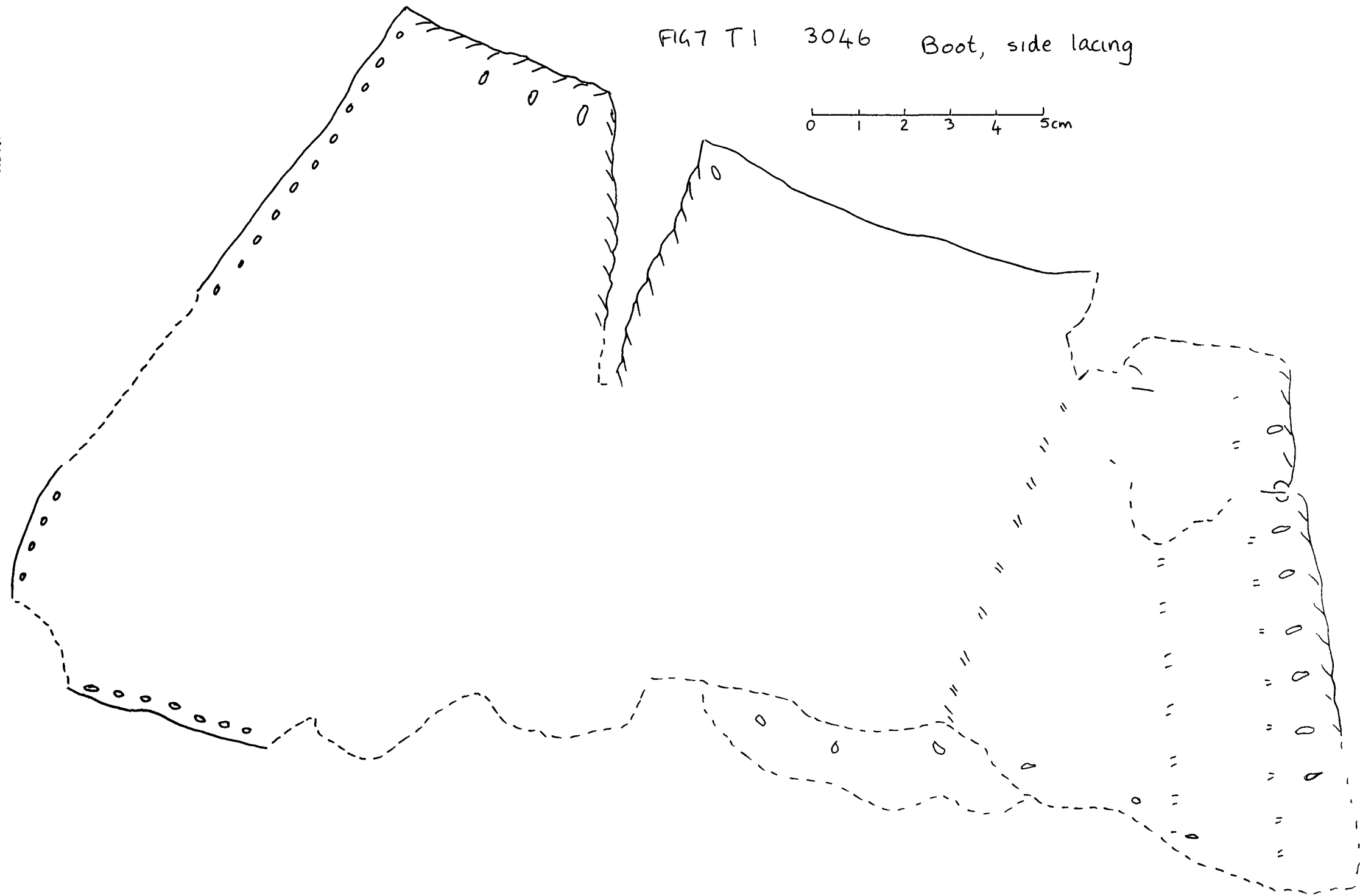
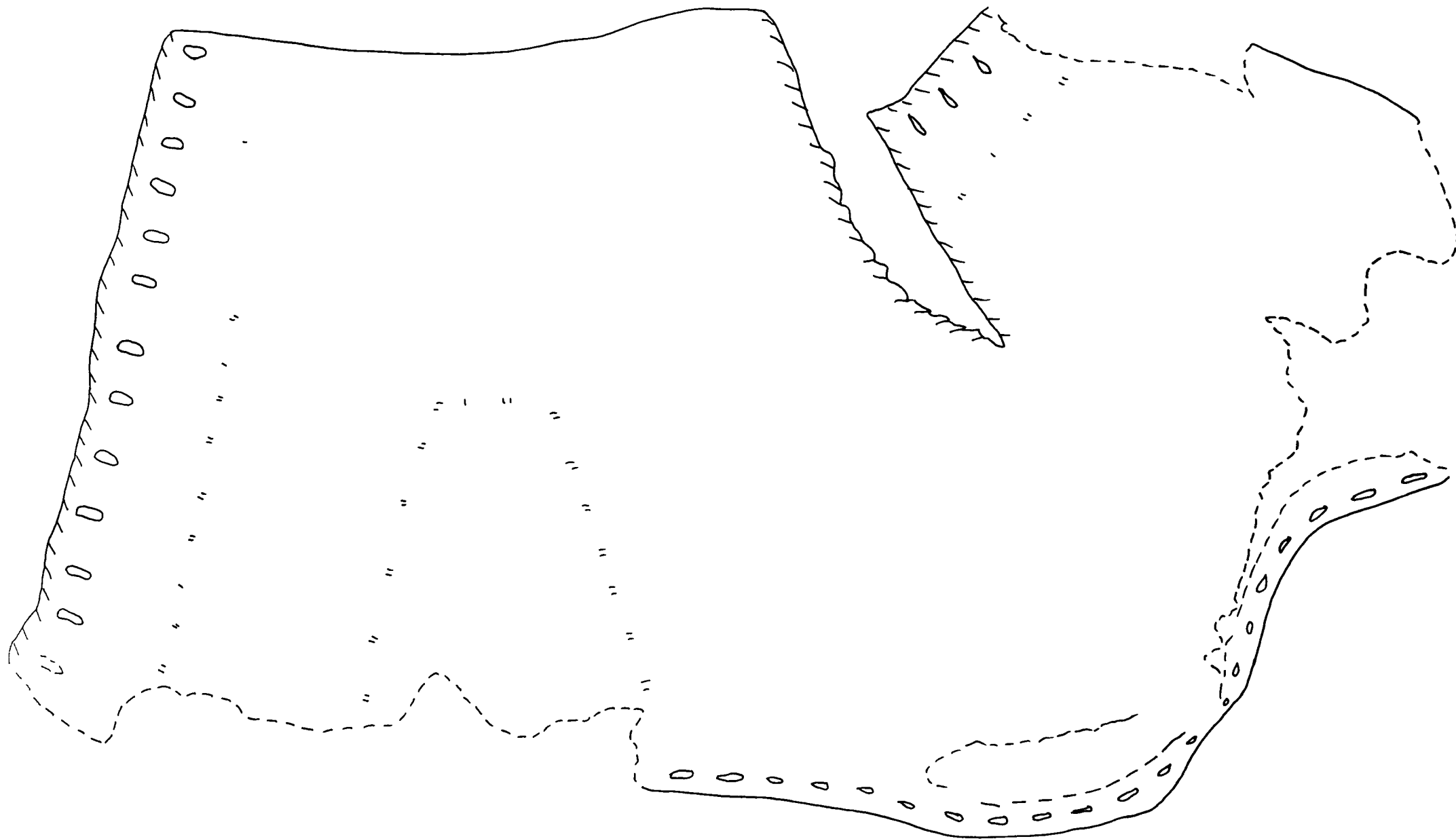
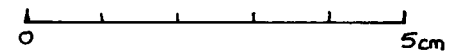


FIG 8 TP8 3589 Boot side lacing



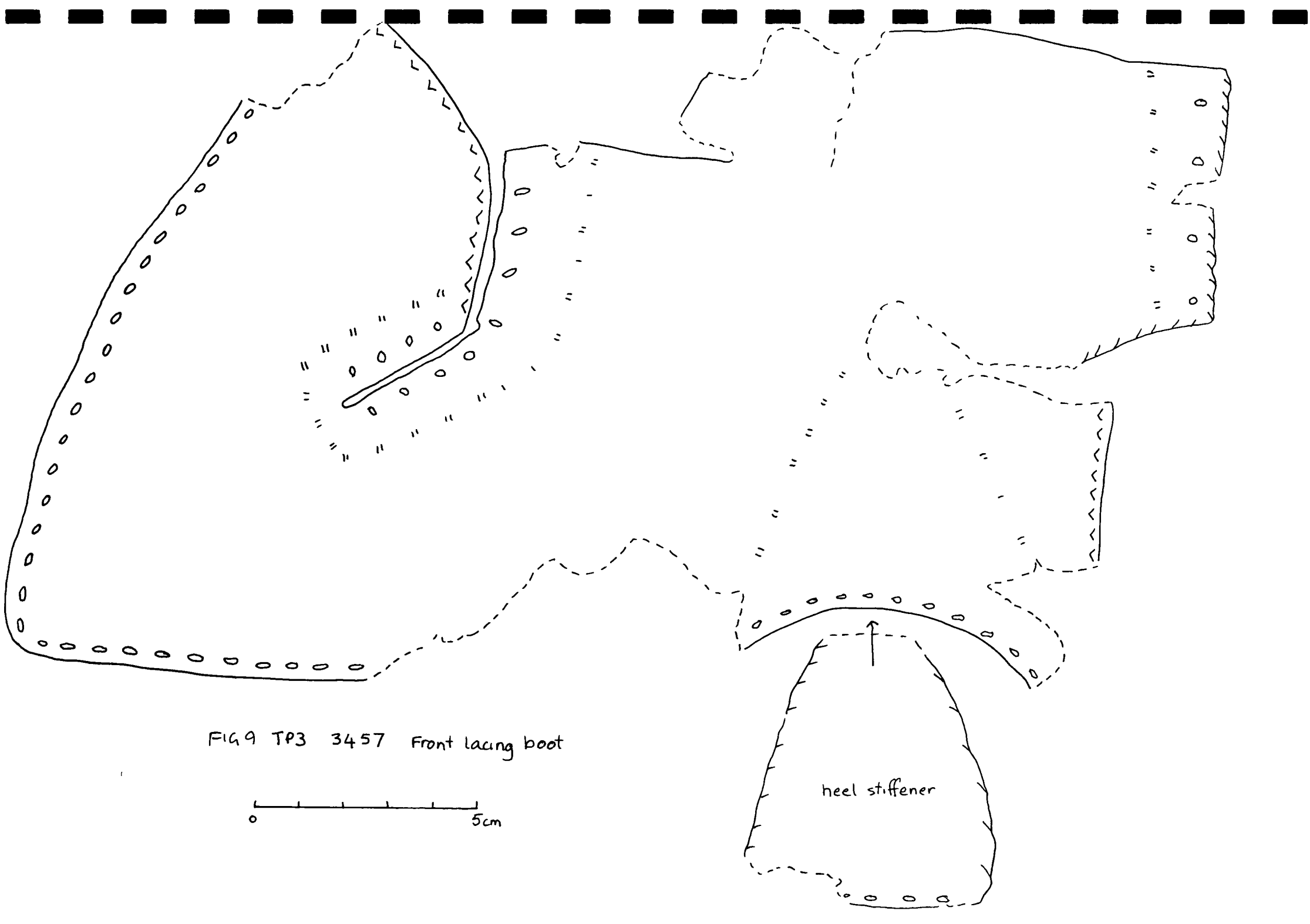


FIG 9 TP3 3457 Front lacing boot

0 5cm

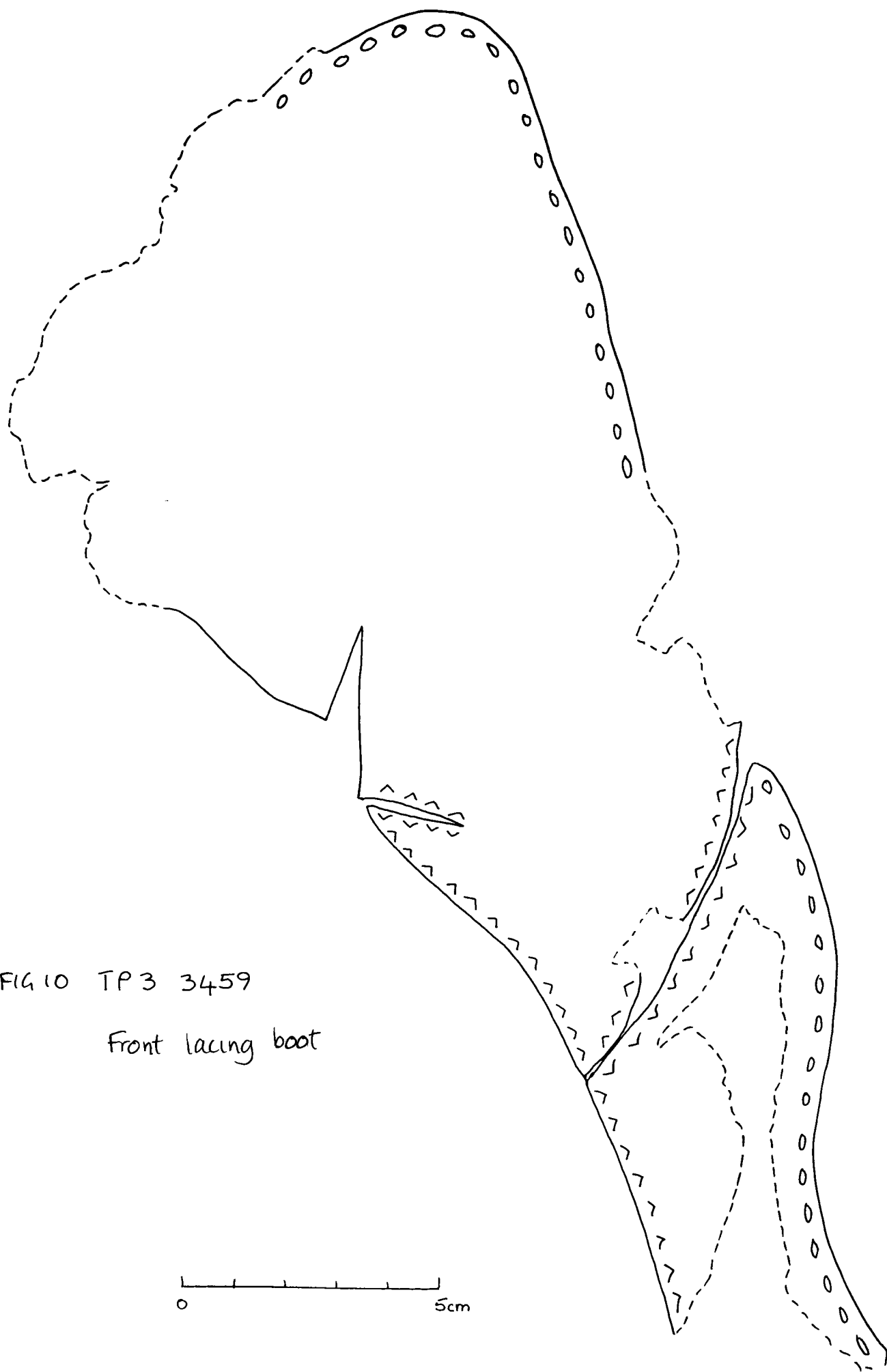


FIG 10 TP 3 3459

Front lacing boot

FIG 11 T4 3298  
Ankle boot front  
fastening with divided  
lace and buckle

0 5cm

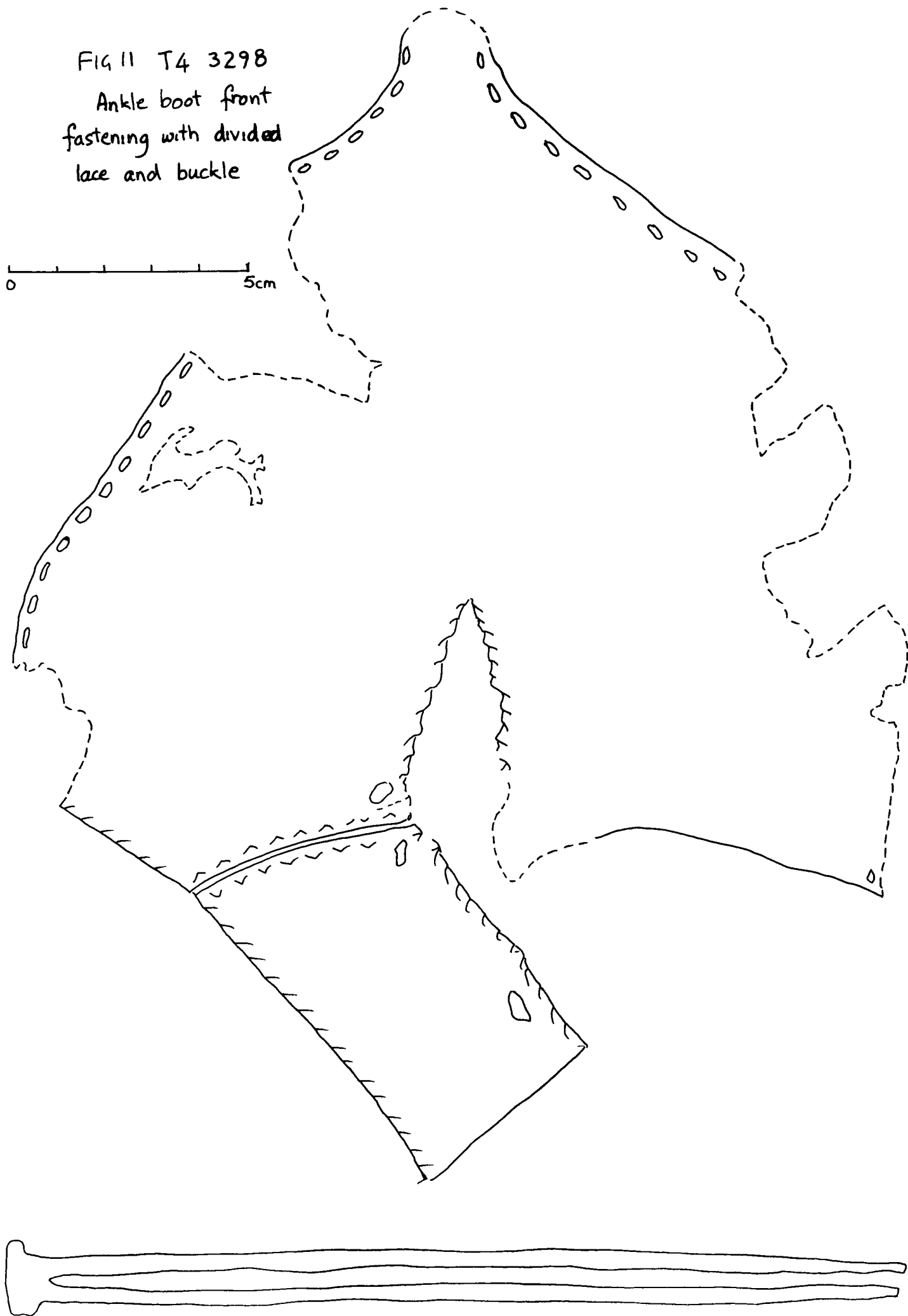
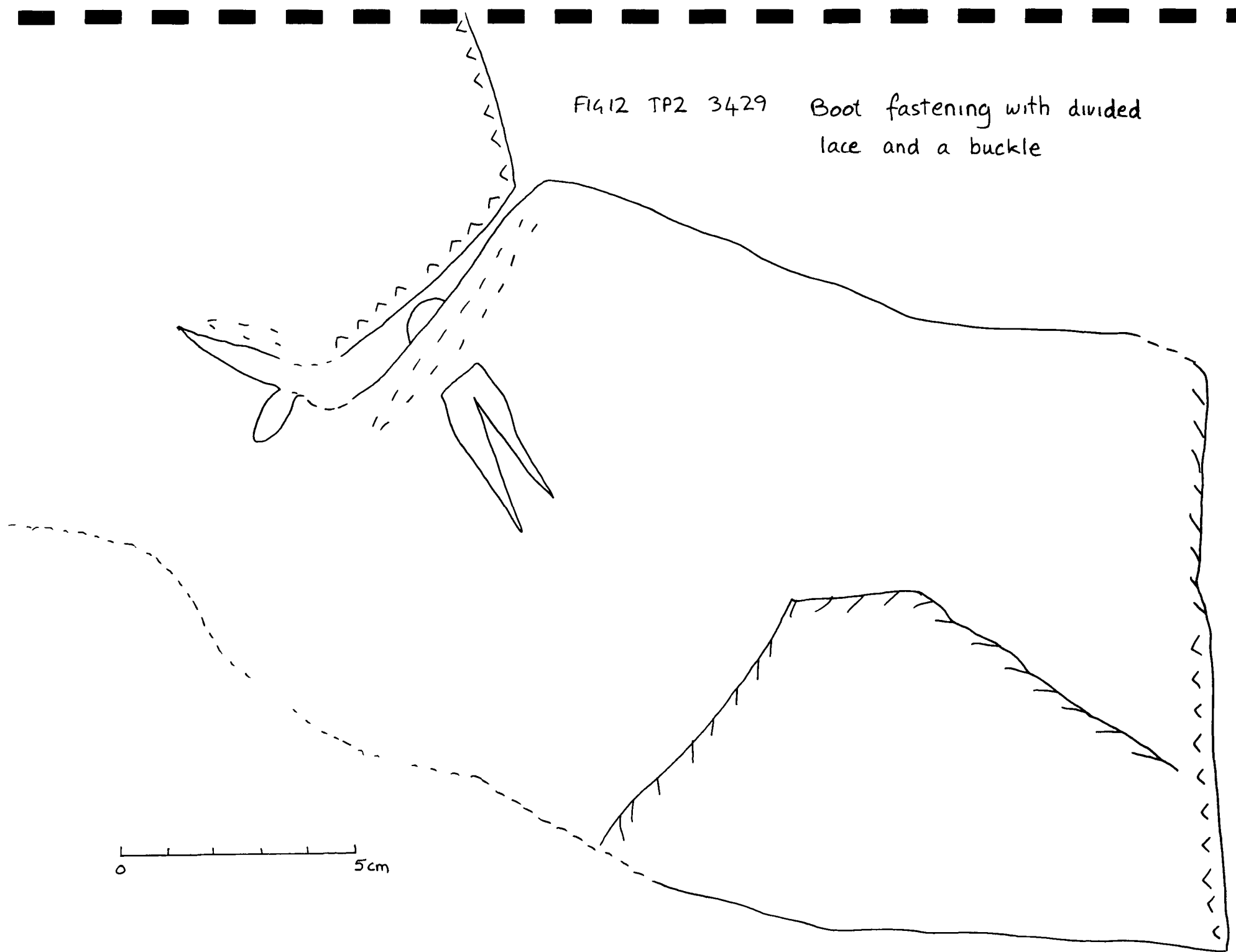


FIG 12 TP2 3429 Boot fastening with divided  
lace and a buckle



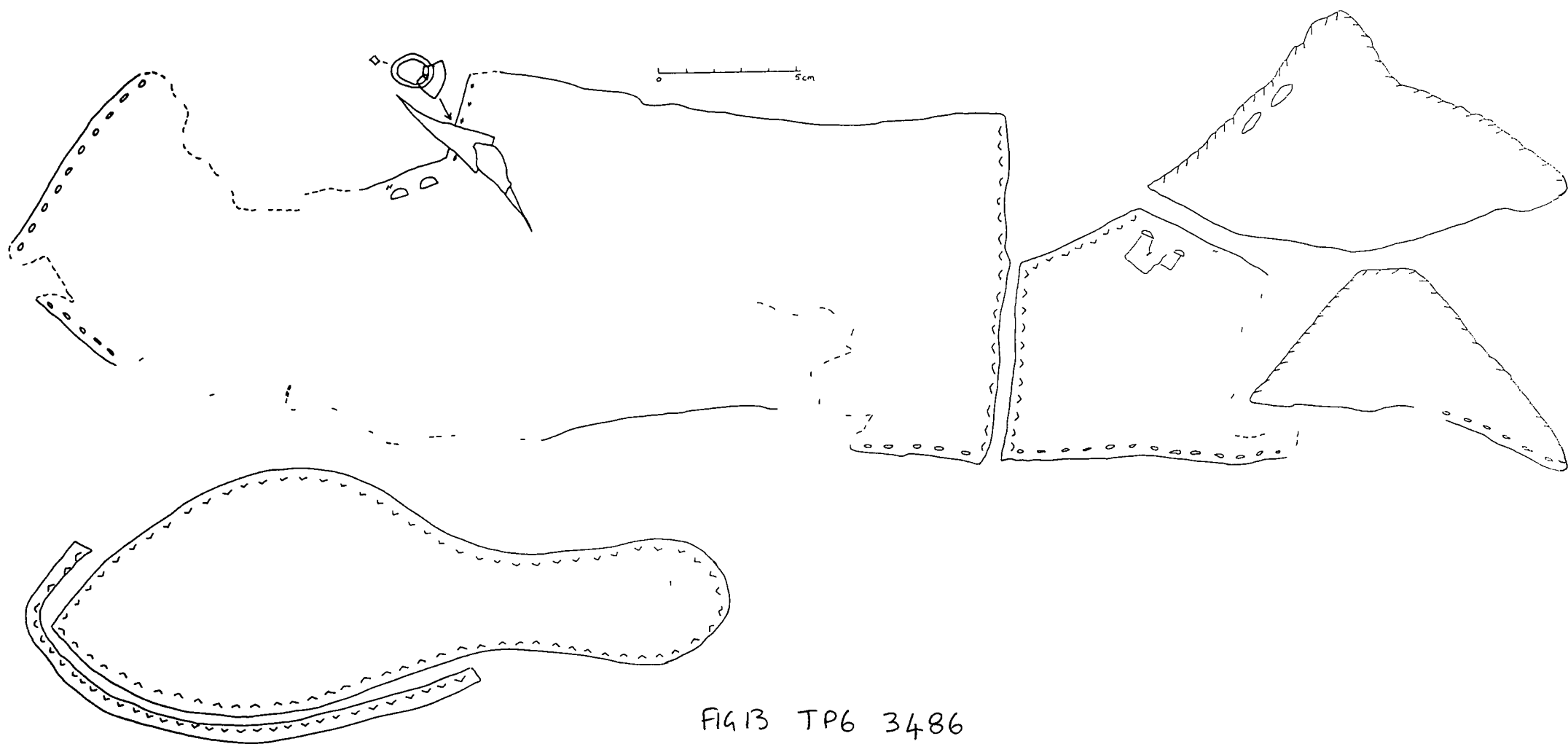


FIG 13 TP6 3486

Ankle boot fastening at  
front end with lace  
and buckle



FIG 14 TP7 3579

Boot vamp

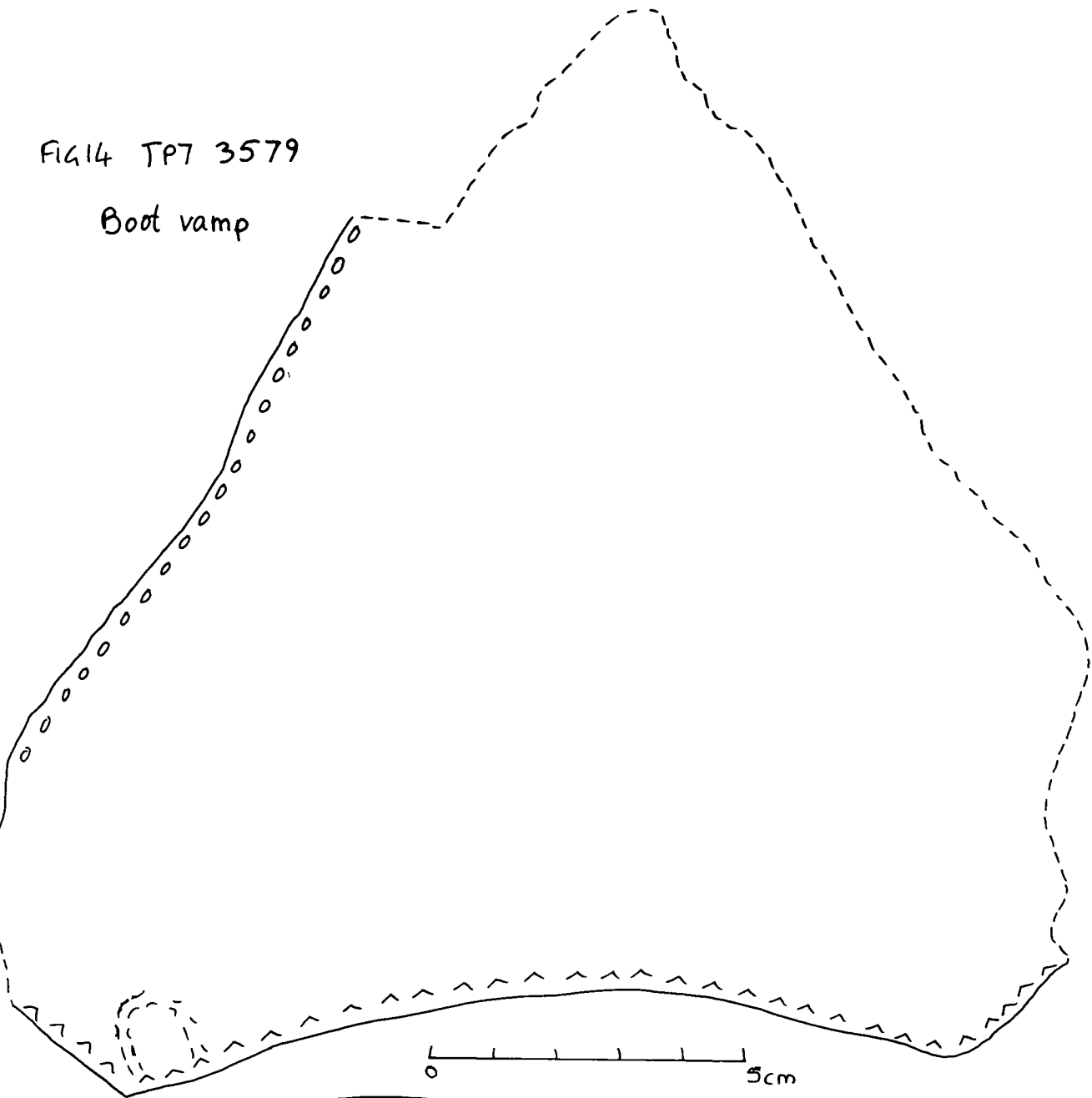
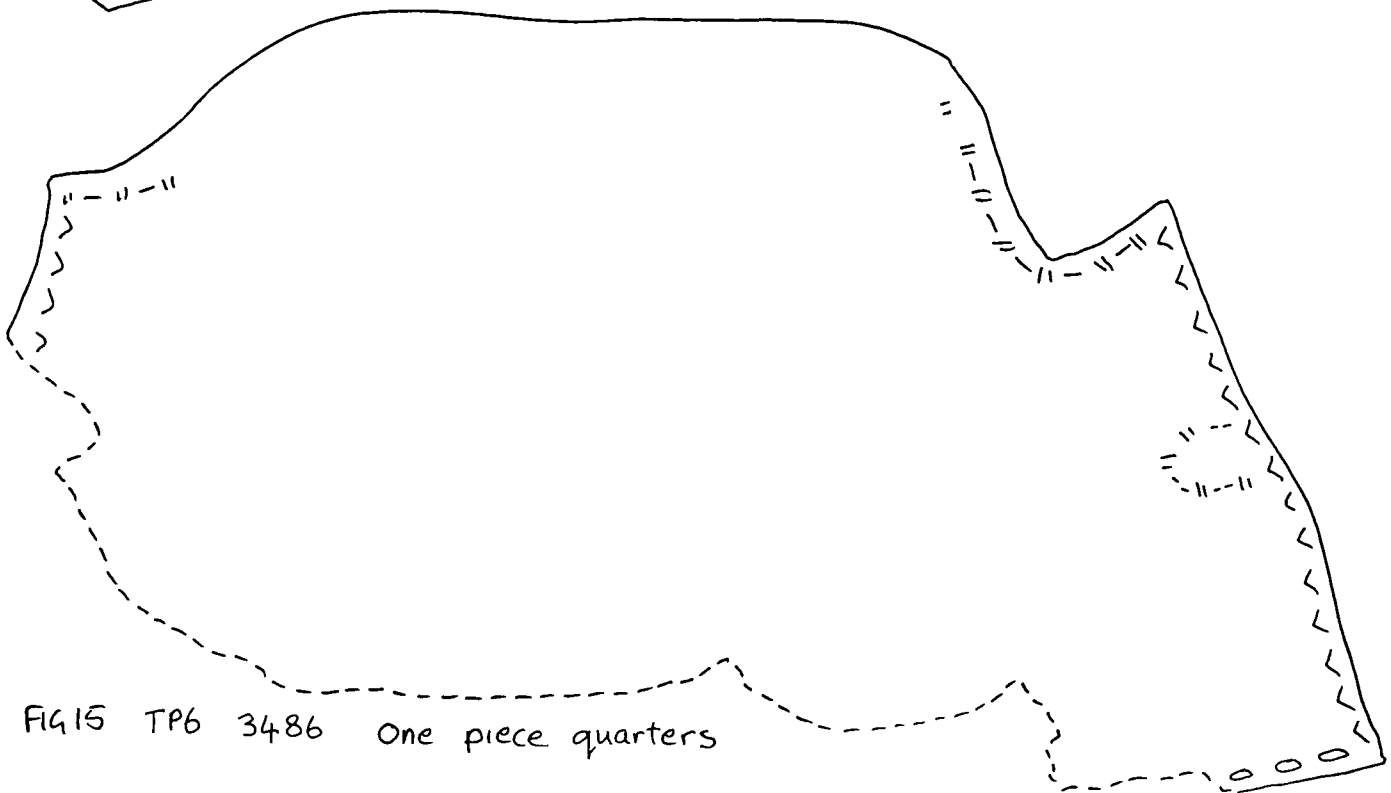


FIG 15 TP6 3486 One piece quarters



## SELBY SDC 97

**\*\* anything of turnshoe construction is medieval (pre 1490's), anything of welted construction is post-medieval in date**

### LEATHER CATALOGUE

abbreviations    L = length  
                      W = width  
                      Ht = height  
                      T = tread  
                      Wt = waist  
                      St = seat  
                      sl = stitch length  
                      st = stitch/es  
                      e/f = edge/flesh seam  
                      g/f = grain/flesh seam  
                      mm = millimetres  
                      + = measurement of an incomplete object  
                      YAT sheet = drawn by conservation dept YAT, sheet number

**T1      3020    fill of subrectangular straight-sided pit or posthole**  
**Waste, secondary Tnmning Leather calf/cattle L 51mm**

**T1      3027    layer/patch of organic material**  
**Waste,secondary Tnmning with skived end Leather calf/cattle L 45mm**

**T1      3028    oval patch of organic material**  
**Shoe upper fragment with area of curved throat remaining with a line of faint whip st on flesh side from the attachment of a strengthening cord A deliberate cut present in one area, rest torn away Leather sheep/goat L 141+mm**  
**Waste, secondary Tnmnings x 2, other offcut x 1 Leather cattle**

**T1      3040    layer with cobbles**  
**Turnshoe sole, small fragment of left side E/f seam sl 5 5mm**  
**Vamp very heavily worn areas of lasting margin surviving but toe area and throat area worn/torn away Leather very heavily worn calf L toe to throat 89+mm W 143mm YAT Sheet 1**

**T1      3046    medieval build-up layer**  
**Turnshoe sole for left foot, worn through at great toe and worn/torn away at the seat Pointed outward pointing toe, petal-shaped tread, medium/wide waist and seat E/f seam sl 5mm**  
**Suggestion of worn tunnel st at lower waist on grain side from repair L 272+mm W tr 94mm Wt 50mm, St 55mm YAT sheet 1**

**Side-lacing ankle boot One-piece upper for nght foot with pointed toe, much of lasting margin worn away, surviving fragments sl 5mm finely stitched G/f st present above the lasting margin from repair Fastening on left side with multiple lace holes, a maximum of eight surviving on the left quarters front seam Whip st present on the flesh side from separate lace hole linings, whip st also at centre back from a tall heel stiffener Top edge was straight cut A rectangular insert (missing) originally extended the left vamp wing held by a butted whip st Leather calf/cattle Total L c 290mm, approx shoe L c 240mm, Ht centre back 132mm YAT sheet 1 early/mid 14th century style**

**Fragmentary turnshoe for right foot Turnshoe sole for nght foot torn away across the waist and seat area missing Pointed toe, petal-shaped tread and wide waist E/f seam sl 7mm Worn**

tunnel st on grain side from repair to seat and small clump repair to toe and great toe joint area of tread Skiving marks on flesh side L 155+mm, W Tr 84mm, Wt 51mm

Also heavily worn seat area of turnshoe sole with tunnel st at centre on grain side and all edges worn away, likely to belong to this sole

Matching forepart clump repair, worn L 70mm, W 60mm and rand

Matching toe area of vamp with lasting margin sl 5mm, torn away across the toe joint and deliberately slashed vertically to the worn toe area MOSS in vamp toe noted during conservation  
Leather cattle

Two-part turnshoe sole seat for right foot, worn at outer edge E/f seam sl 8-9mm L 72mm W Wt 39mm St 54mm

Matching rand

Matching one-piece quarters rising above the ankle (lower calf height) Left front seam has butted e/f seam sl 4mm broken away above c 55mm Plain cut top edge Right front seam has two large fastening slits remaining with st on flesh side to attach a strengthening cord along the front edge, upper and lower edges are torn away Leather cattle Ht 155mm, W 155mm Heel stiffener present at centre back Leather calf/cattle Ht 50+mm Also two thongs/laces with knotted ends likely to belong to these quarters YAT sheet 1

One-piece ankle boot, torn remains of heel area with remains of lasting margin sl 9mm and small area of butted e/f straight side seam on the right side Suggestion of e/f seam along the top edge indicating it extended higher up the leg or had a top band originally Fastening hole with fragment of lace in situ held by st on the flesh side Leather worn, calf, delaminated Surviving Ht c 105mm Heel stiffener at centre back with lasting margin and whip st around edges leather calf Ht 50mm Also fragment of upper with two butted e/f seams of similar leather probably from the same shoe YAT sheet 1

One-piece quarters worn/torn away from the lasting margin Left and right front seams are backward sloping e/f butted sl 4mm, the left has a small peak rising to a domed plain cut top edge Leather sheep/goat, delaminated L 210mm, surviving Ht at centre back 98mm YAT sheet 1

Upper insert, rectangular with straight cut top edge e/f butted side seam sl 5mm and three fastening holes, the lower with remains of a lace in situ Leather calf/cattle Ht 79mm, W 55mm YAT sheet 1

Upper fragment with lasting margin sl 6mm, straight butted e/f side seam sl 4mm, small area of throat with butted whip st and the remainder deliberately cut away Leather calf/cattle surviving L 119mm, Ht 82mm Also fragment of upper and length of lasting margin of similar leather  
8+ small fragments of upper broken from various shoe components  
1 knotted thong/lace and 4 lace fragments

One-piece quarters area of lasting margin sl 7mm, worn through on the right side with small areas of the lower front seams remaining, worn/torn from the rest of the upper, Not belonging to any other quarters recovered from this context leather heavily worn no grain pattern visible L c 198mm

6 small fragments of upper from this or other shoe components

Turnshoe sole piece deliberately cut from rest of the sole with e/f seam sl 6mm L 110mm

Large forepart clump repair, worn through and torn Tunnel st on flesh side L 115mm

Clump seat repair for left foot, worn away at edge of seat Tunnel st on flesh side around edge and single st at centre Surviving L 62+mm, W 65mm

Rand fragments x 4

Waste, secondary, tnmning x 1 other offcuts x 2 Leather calf/cattle  
Scrap fragment heavily worn probably torn from a shoe component

**T2 3052 layer/patch**

Turnshoe sole seat for right foot worn away at outer edge and deliberately cut from the rest of the sole across the lower waist E/f seam sl 6mm L 99mm, W 63mm

**T2 3102 layer/patch**

Stitched sheet, with a long fine butted e/f seam sl 4mm and cut edge at right angle with a gently rounded corner other edge has been deliberately cut away Faint oblique cut marks visible on the grain surface suggesting it has been reused as a cutting platform May have come from a boot upper or garment panel originally Leather calf/cattle L c 900mm max W 60mm min 19mm

Turnshoe sole seat, delaminated fragment

Waste, secondary Tnmings x 5 all calf/cattle other offcuts x 2 all sheep/goat

Scrap fragments x 2, compacted likely to be broken from shoe components

**T2 3106 layer**

Turnshoe for right foot Sole worn through at great toe joint and seat Extended outward pointed toe, petal-shaped tread medium waist and straight seat E/f seam sl 7mm Worn tunnel st from repair at toe area and seat L c 260mm, W Tr 92mm Wt 43mm St 49mm

Vamp, heavily worn at toe joint areas of lasting margin sl 7mm Short, low butted e/f side seams sl 5mm Angular-shaped plain cut throat with st to attach strengthening cord on flesh side along vamp wings Toe area stuffed with **MOSS** Leather calf/cattle Total L c 199mm L throat to toe 191mm side seam Ht 42mm YAT sheet 1 Later 14th/earlier 15th century

Turnshoe vamp with extended pointed toe worn away at the tip and lasting margin sl 5mm worn away at both toe joints Straight butted e/f side seams sl 5mm and straight plain cut throat with a central slash c 57mm long running vertically toward the toe (possibly secondary) leather calf/cattle L toe to throat 198mm, W 245mm Earlier 15th century

Turnshoe sole for child, toe missing worn through at upper tread and seat Petal-shaped tread, medium waist and seat E/f seam sl 7mm No repair L 129+mm W Tr 61mm Wt 32mm Rand x 3

Waste, secondary Tnmings x 2 calf/cattle

Waste, primary Hide edge x 1 (large) calf/cattle

Scrap x 3 2 x compacted probably from soles, 1 probably broken from shoe upper

**T3 3204 (top end) mixed backfill under pavement**

Turnshoe sole for child left foot, complete, worn but no repair Pointed toe, petal-shaped tread, narrow waist, medium long seat E/f seam sl 7mm L 149mm, W Tr 52mm Wt 29mm St 30mm

**T3 3238 Gully T occupation/construction layer**

Fastening, narrow strap with a centrally-pierced, rounded terminal A thin lace is wrapped around the strap and pushed through the hole Leather sheep/goat, lace possibly calf

L 39+mm, W 7mm

A second fragment of similar leather with a Y-shaped end is likely to belong to it

Clump seat repair for the left foot with tunnel st around the perimeter on the flesh side

Complete L 84mm, W 61mm

Waste, secondary Tnmings x 17 different leathers (including 1 in a bag labelled beyond GT)

Other secondary waste x 4, different leathers cattle and sheep/goat

**T3 3224 V occupation layer**

Waste, secondary Tnmning x 1 calf/cattle

Waste, primary Unusable fragment of calfskin

T3 3224 V1

Waste,secondary Trimming x 1 cattle

T3 3224 V2

Welted sole components Two pieces of welted sole seat area one certainly a heel lift L 45mm W 62mm the other may be seat area of middle with g/f st around the perimeter L 62+mm, W 56mm (see welted sole V4) Mid 17th century +

Clump seat repair worn away along the left side, heavily worn tunnel st L 55mm W 42mm

Waste, secondary Trimming x 1 cattle Other secondary waste x 1 sheep/goat

Scrap fragment

T3 3224 V4

Turnshoe sole forepart with petal-shaped tread torn away across the waist and worn/torn at the toe area Worn e/f seam sl 7mm Tunnel st on grain side from clump repair (other clumps from this context do not fit) L 165+mm, W Tr 91mm

Forepart clump repair, left edge worn, tunnel st around perimeter on flesh side L 130mm, W 83mm

Clump seat repair, worn through along right side, tunnel st around perimeter on flesh side L 74mm, W 47mm

Large welted sole for left foot with blunt rounded toe, medium tread tapering slightly to a straight waist and seat Seat worn away on the left side G/f seam around the edge within a stitching channel Impression of a thick welt visible on the flesh side L 249mm, W Tr 98mm Wt 54mm (?middle seat area in V2 belongs to same bottom unit L 62mm x 56mm) 17th century + Insole for child's left foot, complete but torn, with short pointed toe, medium tread wide waist and seat E/f seam sl 7mm worn at the seat Thick cattlehide with uneven skived flesh side (May belong to upper) L 158mm, W Tr 65mm Wt 40mm St 40mm 17th century +

Upper fragment deliberately cut up, area of lasting margin sl 10mm moulded outward suggesting it to be of welted construction Ht 66mm 17th century +

A joining fragment has a straight butted e/f side seam sl 5mm

Tongue triangular piece with each corner torn away, one edge has a whipped g/f seam, others are cut Random shallow cut marks visible, possibly had a secondary use as a cutting platform

Leather worn calf 75x89mm

Waste, secondary x 9 (3 certainly from cutting shoe soles) cattle

Waste,primary 3 hide edges x 3 small fragments of unusable bellyskin etc x 30

Birch bark x 2, coal, mussel shell

T3 3226 occupation layer-disturbed

Turnshoe sole with narrow waist and long, medium seat, worn through and broken at the seat area and deliberately cut across the upper waist E/f seam sl 5mm Worn tunnel st from repair

Skiving marks on flesh side L 104mm W Wt 50mm St 44mm

Forepart clump repair fragment, worn/torn with tunnel st around perimeter on flesh side 67x54mm

T4 3266 W occupation layer

Waste,secondary cattle 54mm x 21mm

T4 3280 XY occupation layer

Clump repair piece small fragment

Four small fragments of shoe components

Waste, secondary Trimming x 10, other x 1sheep/goat

Scrap x 3

Waste,primary Cow teat cut from upper and fragment of hide edge

T4 3287 Gully Z occupation layer

Heel stiffener, much of lasting margin and top edge broken off Worn grain side outward to the foot whip st along edges leather calf Ht 60+mm, W 62mm

Waste, secondary tanning x 1 cattle L 92mm

T4 3297 Gully AA beyond GAS occupation layer/?former ground surface

Waste, secondary Small triangular piece apparently cut from a shoe sole, random cut marks on the surface L 52mm W 14mm

T4 3298 Gully AA occupation layer

Turnshoe front lacing ankle boot Complete sole for left foot, worn through at great toe joint and outer seat area Extended c 25mm outward pointed toe petal-shaped tread long narrow waist and seat E/f seam sl 7mm Worn tunnel st on grain side from repair to seat and forepart including a small clump to cover the hole at the great toe joint L 279mm, W Tr 84mm Wt 37mm St 48mm Five fragments of rand Matching vamp, heavily worn with extended pointed toe c 28mm Areas of lasting margin remaining sl 7mm and small area of butted e/f angled side seam sl 4mm on the right with a torn fastening hole at the junction with the throat The V-shaped throat has a whipped e/f seam The left side has been deliberately cut away and appears to have extended indicating a one-piece upper Separate rectangular insert joined with butted e/f seam to right vamp wing, top edge is plain cut the other seams are whipped Two lace holes are present at the front edge a double divided lace with tab end passes through the hole in the vamp and lower hole in the insert Bellows tongue with two whipped seams at right angle pierced by lace holes and a curved plain cut edge Leather cattlehide, tongue calf Surviving L toe to throat 120mm, toe to side seam 190mm (bag 4, 5, 6 and 7) Insert Ht 77mm, W 42mm tongue 108x90mm, lace L 190mm Late 14th century style

Two-part turnshoe sole forepart, very heavily worn, toe and tread area torn away E/f seam present around surviving edge and across the lower waist Tunnel st from forepart clump repair L 91+mm, W Tr 70+mm Wt 40mm (bag 1)

Turnshoe sole tread area, broken from rest of the sole, heavily worn, seam broken/worn away L 108+mm, max W 72mm (bag 2)

Waste, secondary x 1 cattle (bag 3)

Waste, primary Hide edge x 1 cattle (bag 3)

T4 3297/8/9 Gully AA occupation layer

Turnshoe sole, heavily worn waist and seat area deliberately cut away from the rest of the sole, e/f seam broken L 102mm W Wt 87mm St 48mm

Rand fragment from left side of seat area may come from the above but in much better condition, Waste, primary Unusable area of hide x 2 calf/cattle delaminating

T4 3297/8 Gully AA occupation layer

Strap fastening with rounded terminal pierced by four pairs of round holes before splitting into two separate arms both of which are now torn The pairs of holes alternate between large and smaller sizes Leather is worn and delaminating no grain pattern visible, probably calf L 180+mm W 36mm

Waste, primary Hides edges x 4, 1 large piece of unusable hide, 10 other fragments of unusable hide

T4 3298/9 Gully AA occupation layer

Waste, primary hide edges x 2

**T4 3299 Gully AA occupation layer**

Turnshoe sole heavily worn waist and lower treas area torn away from rest of sole E/f seam sl 6mm survives on the left side L 92+mm, max W 50+mm Two pieces of rand of different widths Waste,secondary Tnmning x 1, wider tnmning/possible strap fragment L47mm W 15mm leather worn grain pattern not visible

Waste,primary Fragments of unusable areas of hide x 21mm where discernible calf/cattle

**T4 3326 Gully AD occupation layer**

Turnshoe sole for nght foot, forepart torn away and worn away at outer seat with lower tread narrow waist and medium seat E/f seam sl 6mm Worn tunnel st from repairs to forepart and seat L 120+mm, W Wt 26mm St 41mm

Turnshoe sole seat area, broken away from the forepart with narrow waist and long medium seat Heavily compacted, e/f seam worn away L 101+mm, W Wt 24mm St 46mm

Turnshoe sole, lower tread and narrow waist area, the rest is torn awat E/f seam sl 5mm Tunnel st on grain side from repair to forepart and seat L 101+mm, max W 55+mm Wt 25mm

Turnshoe sole with extended c 50mm outward pointed toe and fragment of left side of tread remaining, rest torn away E/f seam sl 5mm Worn L 110+mm

Turnshoe sole for left foot toe outside toe joint and ball of the foot area worn away and at outside seat Toe shape unknown, petal-shaped tread medium waist and seat E/f seam sl 6mm with thread present tunnel st from repairs to forepart and seat L 226mm, W Tr 93mm Wt 41mm St 46mm

Turnshoe sole two small fragments

Large clump seat repair worn on left foot worn through at the outside edge, tunnel st around edge on flesh side L 143mm W 117mm

Clump seat repair fragment, torn Tunnel st on flesh side L 47+mm W 79mm

Turnshoe sole, piece apparently cut down from sole, shaped like a clump repair, worn away on the right side with 3 g/f st along one surviving edge leather worn calf/cattle L 63mm max W 47mm

Rand 7 lengths three have st holes from the attachment of a clump repair (turn-welt)

Turnshoe front fastening ankle boot Two part turnshoe sole seat for left foot, worn, with e/f seam sl 7mm L 72mm W 45mm One-piece upper quarters area with left side of lasting margin remaining sl 7mm Angled butted e/f side seam sl 5mm with straight front seam above with whip st The nght side of the plain cut top edge remains with the right front edge curving down to the beginning of the throat The throat has st on flesh side to attach the tongue A double fastening slot present at the junction of the front edge and throat and large double fastening hole, now torn, at the instep Deliberately cut away from the vamp area Tnangular tongue with two g/f whip seams and a cut edge, torn away in places A small fastening hole in one side and a larger torn fastening hole in the other match those in the upper A large trapezoidal heel stiffener is present at centre back worn flesh outward to the foot Random st run above the lasting margin from repair Six small fragments torn from the upper Leather upper worn calf/cattle Tongue and stiffener worn calf Upper Ht centre back c 120mm Late 14th/early 15th century

One-piece quarters from side-latchet fastening turnshoe for the nght foot with lasting margin sl 9mm The straight butted e/f side seams sl 5mm (finely st) extend c 50mm in height above the lasting margin above this the edges were strengthened with a cord on the flesh side turning and running along the top edge for a short distance The left front seam has a small peak nsing steeply to a convex domed plain cut top edge The top edge has a large convex cut deliberately cut from it likely to have been used for a clump repair The right front seam has a pair of fastening holes Leather cattle L 170mm surviving Ht 82mm Late 14th century style

Turnshoe upper fragments

Fragment of throat area of upper with double fastening hole with thong insitu knotted at the back to hold a small buckle Leather calf/cattle 67mm x 55mm Early 15th century style

Fragment of upper with an angled butted e/f side seam sl 5mm and junction with the beginning of a plain cut throat with a fastening hole with a lace fragment insitu Leather calf/cattle 55mm x 62mm

Trapezoidal heel stiffener with lasting margin and whip st to join to upper Worn calfskin Ht 55mm W 79mm

Triangular piece with a whip seam Leather calf/cattle 65mm x 55mm

Delaminated fragment with remains of a broken seam, possibly a bellows tongue Leather worn possibly sheep/goat 75mm x 50mm

Fragment with broken seam Leather worn cattle 55mm x 25mm

Two fragments with remains of butted e/f seams

Three fragments of broken lasting margin Thong fastening with rolled button terminal

Strap fragment torn across each end the right end has been torn across a vertical line of g/f st

Strap has line of g/f st (sewn with a double thread) running along each side Leather cattle L 102+mm, W 55mm

Strap slightly tapenng with both ends broken Wider end is straight with a group of g/f st indicating it was sewn to another piece at this point A deliberate slash mark present in the middle Leather worn calf L 267+mm, W max 20mm min 12mm

Length of strap tapenng to a pointed tip other end is torn with small g/f st indicating it was sewn to another piece at that point Leather calf L 201+mm, W max 16mm min 5mm

Length of strap broken at one end the other is pointed with a large slit fastening hole close to the point Leather worn possibly sheep/goat L 276+mm W 14mm

None of the strap fragments join although they look similar they come from different items

Waste, secondary cattlehide x 2 Piece with marking out line calf x 1 Tnmning x 1

Waste,primary Large piece unusable cattlehide c265mm x 82mm

Large piece unusable hide with all edges torn, sheep/goat c275mm x 120mm

Fragment of unusable hide edge calfskin c 155mm x 120mm

Large piece unusable hide with cut and torn edges sheep/goat 587mm x 170mm, second fragment of similar hide all edges torn 270mm x 160mm

Seven small fragments of unusable hide

Four hide edges (2 cattle, 1 calf, 1 sheep/goat) 1 cow udder teat

From enviro sample 332601 Fragment with two cut edges the others are torn No distinguishing features likely to come from a shoe upper or garment panel Leather sheep/goat L 90+mm W 98+mm

T5 AD conn 3327 machine excavated dump

Flot from coarse sieve from one of the three 7 litre tubs taken as a sample from a feature of unknown size machine trenched rather than excavated Sample found with/wixed with fine brown woody silt

Waste, primary and secondary

Bag 1 Piece deliberately cut from cow udder with two teats L 255mm W 50mm

Bag 2 Numerous pieces of unusable areas of hide pncipally bellyskin

Bag 3 Numerous pieces of unusable areas of hide pncipally bellyskin and a small amount of secondary waste - all in dry soil

Bag 4 Large amount of unusable bellyskin etc and flesh shavings from currying (clean & damp)

T5 3328 AD conn layer (below 3327)

Clump seat repair for nght foot sole, worn through tunnel st around penmeter on flesh side L c 82mm, W 74mm

Waste, secondary leather is worn and appears to have been cut from a turnshoe sole L 65mm, W 22mm

Waste,primary Unusuable hide area fragments x 26 including 2 udder teats sheep/goat



**T5 3344 AD conn occupation layer**

Turnshoe one-piece ankle boot Heavily worn fragment of upper with small area of lasting margin sl 7mm with remains of a right angled seam with whip st on the right side with a double slot with fragment of thong insitu from a buckle attachment at the angle The whip seam suggests a separate tongue originally The throat has a short central slit toward the toe Leather delaminated calf/cattle Surviving L 190+mm Early 15th century style

**T4 3389 Gully AD occupation layer**

Turnshoe sole forepart for left foot, toe area torn away and torn from waist with petal-shaped tread and medium tread E/f seam sl 8mm Worn tunnel st from repair to forepart and probably seat also L 189+mm, W Tr 73mm Wt 40mm

Lentoid piece with a fine g/f seam around the surviving edges, stitches are pulled on the bottom left seam, seam is torn away from much of the left side Wear and colouration suggests a fine closed seam was used Leather calf L 89mm max W 42+mm

**T4 3390 Gully AD occupation layer**

Turnshoe sole seam fragment L 83mm

Clump forepart repair fragment, nght side remaining with tunnel st, heavily worn L 183mm, W 60+mm

Scrap fragment apparently broken from a shoe upper of worn calf/cattle

**TP1 3400 layer**

Waste secondary Tnmning x 1 cattle other x 1 sheep/goat

**TP1 3405 sewer trench fill**

Turnshoe sole waist and worn seat torn away from the forepart E/f seam sl 6mm Worn tunnel st from repairs to forepart and seat L c 120+mm, max W 80mm Wt 83mm St 40mm

Turn-welt two pieces with e/f seam and tunnel st at attach a repair clump The larger piece appears to come from a pleated square toe of 16th century date E/f seam sl 9mm Max W 13mm Scrap five fragments likely to come from shoe upper

**TP1 3406 occupation layer-disturbed**

Strap, broken at one end, deliberately slashed and cut at the other Leather worn probably cattle L 114+mm W 15mm

Broken strap with three large buckle holes and a smaller irregular hole probably secondary Leather worn probably cattle L 74+mm W 20mm Also fragment with a cut end and a large buckle hole probably from the same strap but not joining Leather worn ?cattle L 23+mm W 22mm

Waste, secondary Piece with torn butted e/f seam and irregular knife cut edges secondary waste cut from a shoe component Leather worn calf/cattle L 114+mm W 34mm

**TP1 3409 cobbled surface**

Waste,secondary Piece offcut from cutting out a shoe sole Leather cattle

Scrap two fragments apparently broken from a shoe component probably a sole

**TP1 3410 occupation layer**

Welted bottom unit components Rectangular offcut of heavily compacted leather with a pair of incised lines 8mm apart following the original edge on each side Probably a delaminated fragment of shoe sole with remains of a raised rib seam on each side Leather heavily worn L 23mm W 54mm

Deliberately cut left side of seat from sole or heel top piece with random g/f st present toward the edge

Small delaminated fragment likely to come from a bottom unit component All later 17th-19th

century

Waste, secondary Tnmimg x 5 (4 cattlehide, 1 probably deerskin)

**TP1 3411** occupation layer

Welted bottom unit components Large seat area of welted sole, worn through at the end, deliberately cut away from the rest of the g/f seam skived marks on the flesh side L 95mm W 66mm

Small fragment of welt

Two fragments broken from welted insole, one has an e/f seam the other has random g/f st

Leather worn All post-medieval in date

Turnshoe components Forepart clump repair worn on the left side with tunnel st around the edge on the flesh side L 120mm W 102mm

Fragments (8+) broken from a clump sole repair piece 1 piece of rand

Numerous small fragments from a shoe upper (10+) includes a lace with a tab end and a piece of upper with a butted e/f seam with paired fastening holes with a thong fastening likely to have held a buckle in position suggesting an early 15th century date Leather calf/cattle

Waste,primary x 3 calf and cattle

**TP1 3415** occupation layer

Turnshoe with multiple side lacing fastening, heavily worn and highly fragmentary Sole lower tread and waist area surviving with e/f seam Fragment of clump repair piece Small piece of narrow rand Six fragments of upper including an area of the left side seam with mutiple small lace holes, 7 remaining, and a straight cut top edge Leather calf Separate lace hole lining with whip st around the edge leather calf Fragment of nght side of heel stiffener, heavily worn, worn grain outward to the foot Ht c 78mm Piece of second internal lining also present 14th/early 15th century date

**TP1 3416** wattle or brushwood fence

Rand fragment

**TP2 3420** 19th century buildup

Welted sole forepart broken away from the toe and waist with g/f seam and remains of seven iron hobnails around the edge L 90+mm W 74mm 19th century

**TP2 3422** 18/19th century buildup

Waste,secondary thick cattlehide

**TP2 3423** occupation/?flood layer

Worn seat area of sole likely to be welted, seam broken away L 57mm W 56+mm Post medieval date

Waste,primary Hide edge calf/cattle

**TP2 3426** occupation layer

Turnshoe sole for nght foot heavily worn deliberately cut from the seam down the nght side tunnel st from repair L 192mm max W 70mm

Large clump seat repair for nght foot deliberatley cut away at the outside seat Tunnel st around the penmeter on the flesh side Complete L 95mm W 55mm

**TP2 3429** occupation layer

Turnshoe front fastening ankle boot for right foot Sole worn through at the seat Pointed extended toe (c50mm) slightly outward curving petal-shaped tread, medium waist and straight seat E/f seam st 6mm Worn tunnel st from repair to forepart and seat L 255mm, W Tr 52mm Wt 55mm St 44mm Two pieces of rand (one from seat area has tunnel st but not certainly from this sole)

One -piece upper with worn extended pointed toe and area of lasting margin surviving on left side of vamp and heel area sl 5mm, worn/torn away elsewhere Single straight e/f butted side seam sl 4mm on left changing to a butted whip st along the front upper edge to join to a separate rectangular insert at the throat Top edge is straight cut Throat has a central opening slit with fastening lace hole with a buckle fastening halfway up the leg with a circular pewter buckle with an iron pin Leather calf/cattle Ht at centre back 128mm Triangular bellows tongue of calfskin with whip st securing it to each side of the front opening A double split lace present through a lace hole in the tongue which passes out through lace hole at centre front of the vamp throat Large heel stiffener worn grain outside to the foot with whip st to attach to centre back leather calfskin Ht c 75mm Also two fragments probably broken from the left side of upper, other small fragments upper, rand, and lace Early 15th century style

Turnshoe sole for left foot, worn through at toe, outside tread and seat Short pointed/oval tow petal-shaped tread medium waist and long seat E/f seam sl 7mm and worn st from repair to seat Almost complete L 280mm, W Tr 85mm Wt 87mm St 44mm Matching rand Waste, primary Hide edge x 1 cattle

TP2 3430 occupation layer

Waste, secondary Large rectangular piece of cattlehide L c180mm W 88mm also two rolls of birch bark

TP2 3431 occupation layer

Turnshoe with multiple side lacing fastening boot for left foot highly fragmentary Two part sole forepart with slightly extended toe petal-shaped tread seamed across the narrow waist E/f seam sl 5mm Worn tunnel st along left side on grain side from an irregular-shaped forepart repair Complete L 174mm, W Tr 82mm Wt 29mm

Highly fragmentary remains of upper of calf/cattle from a tall (over the ankle) boot fastening at the right side with multiple lace holes originally internally lined Four remaining lace holes are large and round The remaining quarters area has a straight cut top edge The lace holes begin c 80mm below top edge The front seams both have butted whip st Likely to be a one-piece upper with additional inserts A small triangular insert piece present with a single lace hole L 70mm x 26mm 14th/early 15th century style

Turnshoe sole for child's left foot, toe area worn away and worn at outside toe joint and at seat Petal-shaped tread, medium waist and straight seat E/f seam sl 7mm No repair Surviving L 188+mm W Tr 88mm Wt 82mm St 82mm

Turnshoe sole for left foot, worn at outside seat Pointed toe petal-shaped tread, medium waist and medium straight seat E/f seam sl 6mm Tunnel st for clump seat repair L 228mm, W Tr 76mm Wt 86mm St 46mm

Turnshoe sole probably for right foot, broken tread area medium waist and wide seat worn at the right edge E/f seam sl 6mm W Wt 88mm St 54mm

Turnshoe sole forepart probably for left foot heavily worn, torn away from the rest of the sole 82mm x 66mm

Turnshoe sole, seat area and separate waist area with broken e/f seams from sole/s Waist has tunnel st from extensive repair

Forepart clump repair, worn/torn away across the bottom, tunnel st on flesh side L 90+mm W 80mm

Clump repair two broken fragments with tunnel st on flesh side

Rand 3 fragments

Small one-piece upper for left foot, fragmentary Lasting margin present around the toe sl 8mm rest torn away Butted angled seam sl 8mm on right side Central vertical opening slit with whip st on flesh side to attach a bellows tongue and two pairs of fastening holes Also fragment of matching side seam Leather worn calf L throat to toe c90mm side seam to toe 110mm Late 14th century style

Left side of quarters from side fastening boot with straight cut top edge Two horizontal fastening holes present on the left side with whip st on flesh side along edge indicating the attachment of a tongue The other end is broken and deliberately cut two tunnel st present on flesh side may come from a heel stiffener suggesting it has been cut at the centre back Leather calf Present L 137mm, Ht 50mm Probable matching tall triangular heel stiffener worn grain outward to the foot Worn away at the left lasting margin Leather calf Ht 62mm W c67mm Two thong/laces may belong to the upper, one with a knot close to the end

Mid 13th/mid 14th century

Quarters area highly fragmentary with small area of butted e/f side seam and large g/f st from a repair above the lasting margin Leather worn calf L 166+mm

Triangular piece with a whip seam along one edge, the other two are plain cut, deliberately cut from shoe upper Leather cattle L 112mm max W 34mm

13 other fragments torn from turnshoe uppers, including one with two lace holes from a side fastening shoe - deriving from uppers already described

Strap, slightly tapering length of strap, torn in two and broken at each end with impressed line running along each side Leather calf/cattle L 149+mm W max 18mm min 15mm

Waste,secondary Intersectional cutting piece of delaminated cattle Trimming of calf/cattle

TP2 3437 fill of slot (shallow ditch)

Turnshoe sole for right foot, torn across the waist Oval toe, petal-shaped tread, medium waist and seat E/f seam sl 3mm with thread present No sign of repair complete L 229mm W Tr 53mm Wt 30mm St 30mm Fragment of rand

Scrap four fragments probably torn from shoe upper

TP2 3439 occupation layer/collapsed fence

Upper two fragments probably area of toe, small areas of lasting margin present, heavily worn

TP3 3443 layer post-medieval build up

Welted shoe components Welted sole, four fragments of waist and upper seat area with oval horizontal g/f st and iron hobnails 19th century date

Waist and worn seat area of insole with raised stitching channel changing to e/f seam around the seat One piece of rolled and braced welt 16-18th century One piece of flat welt

Left quarters of two part quarters with lasting margin sl 3mm, butted back seam front seam broken off and low top edge with whip st, possibly indicating it to be an internal lining Leather calf Ht 42mm Right side of large heel stiffener worn grain outward to the foot with lasting margin and whip seam, heavily worn Four small fragments broken from shoe upper

TP3 3450 occupation layer

Turnshoe sole remains very heavily worn with seam and edges mostly broken off L c 22mm

Turnshoe sole small fragment 30m x 23mm

Waste,secondary Trimming cattle

TP3 3451 build up around fence

Turnshoe sole for right foot, complete, broken away at the waist and upper seat Oval toe, petal-shaped tread narrow waist and medium seat E/f seam sl 6mm Faint worn st from clump repair to forepart L 252mm, W Tr 92mm Wt 28mm St 48mm

Turnshoe sole seat worn away on left side, seam broken on right side deliberately cut from the rest of the sole L c 33mm W 40+mm

Clump seat repair with tunnel st down right side on flesh side, deliberately cut away down the left side L 54mm W 45mm

Turnshoe sole fragment with area of e/f seam trimmed from a complete sole, all other edges deliberately cut Complete 91mm x 13mm

Fragment probably broken from left side of clump seat repair with g/f holes possibly worn tunnel st visible 43mm x 22mm

Rand fragment

One lace fragment or tnmning

Piece with small areas of opposing plain cut edge with ends irregularly torn away Covered in a series of regularly spaced g/f awl made holes Leather is heavily worn no grain pattern visible No sign of iron staining from hooks L 34mm W 39+mm

Waste,secondary Intersectional cutting piece calf Tnmning cattle

Scrap four fragments apparently broken from upper components

TP3 3455 occupation layer

Turnshoe sole for left foot torn in two across tread and worn away at the seat Outward pointing extended toe broken off petal-shaped tread, medium waist and seat Broken e/f seam sl 7mm Leather abraded, no sign of repair Almost complete L c 236+mm, W Tr 33mm Wt 44mm St 48mm

Turnshoe sole for right foot, toe and upper tread area broken off, worn away at the seat Medium waist and wide seat e/f seam sl 7mm Worn tunnel st from repairs to forepart and seat (at least two repairs to the forepart) L 135+mm, W Tr 33mm Wt 35mm St 33mm

Turnshoe sole for left foot with extended toe torn off, very narrow tread worn through at the great toe joint, narrow waist and seat torn away E/f seam sl 7mm Worn but no sign of repair L 139+mm, W Tr 37mm Wt 24mm

Turnshoe sole fragments x 3, largest with worn tunnel st from repair, delaminated

Rand fragments x 3

Upper three large pieces with some cut and torn edges, occasional st indicate they derive from a fragmentary shoe upper Heavily worn some delaminated Leather where recognisable calf/cattle One fragment of fastening lace

Scrap small fragments (10+) torn from the upper fragments above

Waste, secondary Intersectional cutting piece cattle Tnmning cattle

Waste,primary Rectangular piece with hide edge cattle 114mm x 109mm Folded fragment of hide edge calf/cattle

TP3 3456 Area of disturbance/?dump/?demolition layer

Turnshoe sole for right foot, toe area missing, worn at the great toe broken away at the seat and torn in two across the tread Petal-shaped tread, medium waist and seat E/f seam sl 3mm Very heavily worn tunnel st from repair to forepart and seat Surviving L c 200+mm W Tr 79mm Wt 40mm Rand x 3

Numerous small fragments (14+) broken from shoe upper 3 with areas of lasting margin present sl 5mm Leather calf

Waste,secondary 5+ small pieces of thicker leather which may be broken from secondary waste

TP3 3457 occupation layer

Wrist guard, oval guard with pair of opposing rectangular tabs slightly offcentre Gently curved in profile Wear suggests it was cut from another object possibly a shoe sole Slightly delaminated at one end no grain pattern visible L 102mm W 46mm W with tabs 71mm thickness 4mm

Turnshoe front lacing ankle boot for left foot Forepart of two part sole, unusually seamed across the tread e/f seam sl 7mm with a pointed outward turning toe now worn through Nearly complete L 92mm max W 77mm

One-piece upper with short pointed toe, heavily worn at the inner and outer toe joints and heel area with lasting margin sl 7mm Angled butted e/f seam at left side Opening at centre front lacing with a minimum of eight pairs of laces, whip st on flesh side from an internal lace hole lining originally Leather calf Top edge was straight cut and is much broken away Heel stiffener insitu at centre back, broken at the top edge Leather calf

Surviving Ht at centre back 134mm, L to centre back c 185mm total L 270mm Late 14th century

style

Turnshoe two part sole forepart for left foot complete but worn through at the great toe joint Extended (c 30mm) outward pointing toe, petal-shaped tread medium waist E/f seam sl 6mm across the upper seat No repair L 204mm W Tr 90mm Wt 34mm

Turnshoe two part sole forepart for right foot complete Extended pointed toe torn away petal-shaped tread, narrow waist E/f seam sl 7mm across upper seat Worn tunnel st from repair to forepart Skiving marks on flesh side L 176mm W Tr 85mm Wt 29mm

Turnshoe sole for child's right foot, worn/torn away at left side of forepart and at seat short pointed toe petal-shaped tread medium waist and seat E/f seam sl 7mm No repair L 148+mm, W Tr 30mm Wt 29mm

Turnshoe sole forepart, torn from the waist with outward curving pointed toe, torn off and petal-shaped tread E/F seam sl 7mm No repair L 119+mm W Tr 62mm

Four turnshoe soles with lower tread, waist and heavily worn seat only, torn away from upper tread Three have heavily worn tunnel st from repairs to forepart and seat

Three turnshoe sole seats, two are deliberately cut from waist area of sole, two have worn tunnel st from repair clumps

Turnshoe sole fragments x 7 torn from rest of the sole

Rand fragments x 9

One-piece quarters from front latchet fastening turnshoe with most of lasting margin broken off surviving areas sl 6mm with a line of stitching above from a repair Front seams are butted e/f sl 4mm slightly backward sloping Right front seam junction with the gently domed top edge is sharply peaked with st on flesh side to attach a strengthening cord The left front seam is butted e/f to a height of 41mm above this is whip st to attach a separate fastening strap Worn tunnel st on flesh side from a small rectangular tab present half way up each front seam Leather calf/cattle Ht centre back c 97mm, Ht side seam 92mm W 194mm Late 14th century style

Vamp, fragment of right wing with butted e/f side seam and part of curved throat other edges torn away Leather calf/cattle

Upper large fragment with torn edges and a curved edge with butted whip st likely to come from a vamp throat Leather calf/cattle

Upper side lacing, fragment of side seam with butted e/f seam and three lace holes along this seam with whip st on flesh side from a large internal lace hole binding c 33mm in width Leather calf/cattle

Upper rectangular piece with lasting margin sl 7mm and two vertical butted g/f seams sl 4mm, top edge broken Moulding at the lasting margin suggests it to be right side of two-piece quarters suggesting it comes from a 15th century boot Leather calf Surviving Ht 47+mm W 65mm

Upper fragment of either tongue or heel stiffener with whip st along one edge

Upper fragment with area of butted e/f seam and straight cut top edge Leather worn possibly sheep/goat

Upper 9+ fragments torn from shoe components with small areas of seam present

Waste, secondary x1

Scrap One piece with a X mark present calf Fragments x 10 probably broken from shoe uppers

TP3 3458 occupation layer

Turnshoe sole for left foot, worn through at great toe and great toe joint Extended outward pointing toe (tip torn away), petal-shaped tread, medium waist and long medium seat E/f seam sl 6mm Heavily worn tunnel st from repair to forepart and seat L 277mm, W Tr 87mm Wt 44mm St 51mm

Turnshoe sole for ?right foot, forepart torn off obliquely, worn away at the seat E/f seam sl 3mm No repair L 153+mm

Turnshoe sole forepart with pointed toe, petal-shaped tread torn away across the narrow waist

E/f seam sl 6mm No visible repair

Turnshoe sole, fragmentary, toe missing, petal-shaped tread narrow waist and broken seat E/f seam sl 5 5mm No visible repair

Turnshoe sole, slightly extended outward pointing toe deliberately cut from rest of sole E/f seam sl 6mm

Turnshoe sole right forepart area broken from rest of sole

Seat of two-part turnshoe complete, e/f seam sl 6mm No repair L 70mm W 57mm

Turnshoe sole seat deliberately cut from sole e/f seam sl 7mm

Forepart clump repair worn away at the toe and right side L 99mm

Rand x 1

One-piece quarters, lasting margin broken off Gently backward sloping front seams e/f butted sl 4mm, the right side has a small peak at the junction with the domed plain cut top edge Tunnel st at centre back from heel stiffener and from small tab at left front seam Leather heavily worn no gram pattern visible Surviving Ht at centre back 84mm Mid/late 14th century

Turnshoe vamp left side with lasting margin sl 5mm and straight e/f butted side seam, deliberately cut from rest of vamp A horizontal line of three tunnel st running from the side seam is present on flesh side Leather calf L 155+mm, Surviving Ht 55mm

Turnshoe vamp, heavily worn lasting margin missing, delaminated right side seam present with part of the curving throat with central opening running toward the toe Two large oval fastening holes present on the left side Leather worn no gram pattern visible Fragment of upper with two fastening holes with a double divided lace with tab end insitu, likely to come from the same front lacing upper

Separate fastening latchet with oblique straight butted e/f seam sl 4mm and straight tenmmal with clipped corners with a pair of large oval fastening holes, other edges are unseamed Thread present Leather worn calf/cattle L 68mm W 55mm From late 14th century latchet fastening shoe

Vamp fragment of left wing with straight butted e/f seam and small area of lasting margin, rest torn away Leather calf

Upper fragment with e/f butted seam Leather calf

Numerous fragments broken from the fragmentary uppers described above including four with lasting margins

Length of lapped seam sewn with a double thread (running stitch with thread impression on one surface only) apparently deliberately cut away from larger item Leather sheep/goat L 55mm x 11mm

Waste, secondary Tinnings x 3 calf/cattle Intersectional cutting piece x 2 Offcut from cutting out a sole/seat clump x 1 Other x 3

TP5 3459 layer/?ground surface/dumped material

Turnshoe one-piece ankle shoe for right foot Complete sole worn away at the outer seat

Short pointed toe petal-shaped tread relatively wide waist and seat E/f seam sl 6mm Heavily worn tunnel st from repairs to forepart and seat L 240mm, W Tr 55mm Wt 45mm St 66mm

Heavily worn upper much broken away on right (outer side) with lasting margin sl 6mm and long sloping e/f butted side seam sl 4mm and central opening slit with a seamed nick 15mm in length at the junction Joining to a triangular insert with two butted e/f seams and a lasting margin Leather calf/cattle

Small heel stiffener worn gram outward to the foot torn away at the top edge with lasting margin sl 10mm Leather calf Ht 42+mm W 45mm (not necessarily from the upper above)

Rand x 6 including one with tunnel st (not necessarily from the shoe above)

Seat from two part turnshoe sole with e/f seam sl 6mm along right side and across upper waist

but deliberately cut from the left side with a square deliberately cut from the seat L 92mm W Wt 27mm St 45mm

Turnshoe sole upper forepart area with short toe worn away, broken from the rest of the tread e/f seam sl 3mm worn along the left side Heavily worn tunnel st along the broken edge indicates an irregular shaped forepart clump repair

Turnshoe sole fragment with e/f seam and a cut edge with tunnel st on flesh side, other edge broken, indicating a clump repair cut from a turnshoe sole L 60mm W 19mm

Long tear-drop shaped patch with tunnel st around the edge on the flesh side Wear indicates it is not a clump repair for a sole, possibly an upper repair Leather calf/cattle L 133mm max W 43mm

TP3 3510 slot ?drainage ditch

Turnshoe upper fragment with two cut edges, the others torn wear suggests it is a shoe vamp fragment Leather calf L 160+mm W 79mm

Fragment with a cut edge, others torn, apparently broken from a shoe upper Leather cattle 73mm x 30mm Six small fragments broken from the above

Waste,secondary x 1 cattle

TP3 3511 redeposited natural

Turnshoe sole, short pointed worn toe deliberately cut from the rest of the sole E/f seam sl 6mm Heavily worn tunnel st from repair

Turnshoe sole, seat area broken from rest of the sole worn at edge E/f seam sl 7mm No visible repair L 73+mm (curled) W 64mm

Rand x 2

Separate fastening latchet from side latchet fastening turnshoe with e/f butted seam sl 3mm split into a double lace, part of seam area broken away L 173mm seam W 32mm

Late 14th century style

Upper fragments, length of upper lasting margin sl 7mm Five other fragments of upper including one with lasting margin and another with a butted e/f seam

Sub-rectangular piece with a gently concave curving cut side with a cut edge at right angle to it, other edges torn away No distinguishing features apparently torn from a garment panel Leather is very heavily worn no grain surface remaining but appears to be pigskin L 170mm max W 33mm

TP3 3514 layer - fill of channel/ditch cut into natural

Rand x 2 Scrap x 4 small fragments likely to be torn from shoe upper components

TP3 3517 occupation layer

Large turnshoe sole for left foot, toe area broken off, petal-shaped tread wide waist and large wide seat Leather delaminated areas of e/f seam sl 3mm Heavily worn tunnel st from a forepart clump repair L 240+mm, W Tr 98mm Wt 57mm St 71mm

Turnshoe sole waist area torn away from rest of sole E/f seam sl 3mm No repair visible L 60+mm max W 33mm

Waste,secondary Tnmning x 2

TP4 3696 Trench for branch of main sewer (with 3702 dating to 1333 or later)

Turnshoe sole forepart, torn away from the toe and waist E/f seam sl 3mm suggestion of very heavily worn tunnel st L 74+mm W 66mm

Upper insert from toggle-fastening boot. Rectangular insert from right front with butted e/f seam sl 3mm to attach to quarters front seam Straight top cut edge, front seam with whip st and broken e/f seam to join to throat Two long fastening laces with rolled button terminals and the end of a third, each threaded through three thong slits Leather sheep/goat Ht c 72mm, W 62mm Late 13th century style



Upper fragment with a backward sloping butted e/f seam remaining suggesting it to come from one-piece quarters, other edges broken off Leather worn calf

Waste,secondary, trimming x 2 calf/cattle

Waste,primary Hide edge x 3 Udder teats x 2 cattle Other unusable fragment x 1

Scrap fragment likely to be torn from a shoe upper

**TP4 3697** rectangular pit/post hole

Scrap compacted fragment from sole or clump repair 65mm x 44mm

**TP4 3699** ?slot - disturbed ground adjacent to sewer trench

Strap, small fragment of narrow strap broken at each end, worn with no grain pattern visible L 39+mm W 14mm

**TP4 3701** occupation layer

Large forepart clump repair with broken edges and areas of tunnel st remaining on flesh side L 133mm W 95mm

Clump repair two fragments

Upper fragment with butted e/f seam and pair of fastening holes with impression suggesting a double split lace Mid-late 14th century Other small fragment Rand x 2

Waste,secondary Tnmmings x 6 Other x 2

Waste,primary Unusable hide fragments x 4

Scrap x 18 other fragments including a fragment of sheep/goatskin

**TP4 3702** (with 3696) fill of branch of sewer

Turnshoe sole for child lower tread and waist area rest torn away E/f seam sl 5mm No visible repair L 100+mm, W max 50mm Wt 25mm

Upper, three small fragments one with remains of fine e/f butted seam Leather calf

Waste,secondary Tnmming x 1 cattle

**TP4 3703** layer

Forepart of two part turnshoe sole for right foot, worn through at the tread Slightly extended pointed toe, petal-shaped tread and narrow waist with e/f seam sl 5mm extending across the waist worn tunnel st from forepart clump repair Broken at right corner of waist L 190mm, W Tr 81mm Wt 23+mm Rand x 2

Broken heel stiffener with lasting margin and top edge broken off whip st present along each side Leather delaminated worn calf L 70+mm Ht 42+mm

Scrap x 5 small fragments likely to be broken from shoe uppers

**TP4 3705** occupation layer/dump

Front fastening upper, fragmentary including area of left side of vamp with remains of curving throat with whip st and straight cut front opening with a pair of fastening holes at the junction with thong insitu from a buckle attachment suggesting an early 15th century date Leather calf

Waste,primary 5+ fragments of unusable bellyskin

**TP4 3706** ?flood deposit

Forepart clump repair for right foot with tunnel st around edge on flesh side complete L 131mm W 76mm

Offcut, folded and nailed fragment with two cut and a torn edge A lead alloy nail with a somewhat square shaped head insitu passes through the fold and secured a fragment of torn narrow strap, shank is clenched No other distinguishing features Leather sheep/goat L c 93mm W 75mm, fold 24mm

Waste,secondary Tnmmings x 3 Intersection at cutting piece x 1 Other x 2

**TP4 3708** occupation/demolition layer  
Waste, primary Hide edge fragment, torn calf

**TP4 3710** occupation layer  
Turnshoe sole two fragments of left side of sole  
Waste, secondary Intersectional cutting piece cattle  
Waste, primary Unusable hide fragment

**TP4 3713** occupation layer/feature/building debris  
Fastening lace fragment  
Waste, secondary Wide trimming x 1 sheep/goat  
Scrap fragment x 1

**TP4 3714** occupation layer/building debris  
Fastening lace, heavy lace with two st holes at one end  
Waste, secondary Intersectional cutting piece x 1 cattle Trimming x 1  
Waste, primary Unusable hide areas x 2

**TP4 3717** occupation layer  
Strap, length of straight sided strap cut obliquely across one side to produce a pointed tip at one end probably deliberately cut, also fragments torn from it L c230mm W 11mm L 33mm W 13mm, L 33mm W 14mm

**TP4 3718** layer  
Turnshoe sole straight seat worn through at left side deliberately cut from the rest of the sole E/f seam sl 9mm No repair visible L 73mm W 33mm  
Separate fastening latchet extending into a long strap, now torn off with butted e/f seam sl 3mm to join to shoe upper Late 14th century style Leather calf/cattle L 36+mm W 24mm  
Binding two small fragments  
Waste, secondary x 1 calf/cattle  
Waste, primary Thick hide edge cattle  
Scrap x 2

**TP4 3721** layer  
Turnshoe sole for right foot, almost complete worn away at outside seat and with a circular area of the seat deliberately cut out slightly extended pointed toe, petal-shaped tread, medium waist and long medium seat E/f seam sl 7mm Three tunnel st from repair L 243mm, W Tr 30mm Wt 32mm st 43mm  
Upper highly fragmentary, including a fragment of left side of vamp with a small area of lasting margin and various other small fragments Leather calf  
Upper fragment, sub-rectangular shape with small areas of cut and many irregularly torn edges  
No other diagnostic features but possibly from one-piece upper Leather probably cattle  
Strap, two small tapping fragments of similar leather

**TP4 3723** occupation layer  
Waste, primary Hide edge of goatskin with hair present

**TP4 3724** layer/feature emerging from west section  
Upper, four fragments including one with a small lace insitu Leather calf  
Clump repair, fragment with tunnel st on flesh side

**TP4 3729** misnumbered likely to be 3730 below  
Turnshoe sole, long medium seat with delaminated e/f seam sl 5mm deliberately cut irregularly from the rest of the sole Worn st from clump repair to seat L 102mm W 30mm

Turnshoe upper fragments Left side of vamp with lasting margin sl 7mm, other edges torn away Leather very heavily worn Fragment of top edge with a pair of large oval fastening holes, one with a fragment of lace insitu Leather very heavily worn possibly sheep/goat  
Separate latchet from toggle fastening shoe with a straight terminal with a pair of fastening holes with slit ends St to attach a strengthening cord present of flesh side around the edge Torn from the rest of the upper Mid/late 13th-early 14th century style Leather worn sheep/goat  
Very large triangular heel stiffener from a boot, worn gram outward to the foot Lasting margin broken off at each side, whip st to secure to interior of upper Leather fine calf Ht 113mm W c 110mm

**TP4 3730 layer**

Turnshoe sole for right foot worn/torn away at both sides of the forepart and right side of seat Pointed toe, now missing, petal-shaped tread medium waist and long medium seat E/f seam sl 7mm L 222+mm W Wt 33mm St 46mm

Turnshoe sole for child's left foot Extended (c30mm) outward pointing toe petal-shaped tread broken at the right side, medium/narrow waist and long medium/wide seat E/f seam sl 3mm Sole worn but insufficient for repair L 264mm, W Tr 35mm Wt 33mm St 33mm

Upper Four small broken fragments Leather sheep/goat

**TP4 3733 layer/feature - fill of trench 3736**

Waste, secondary Delaminated triangular piece appears worn suggesting it to be cut from another item Leather no grain pattern visible L 35mm

**TP4 3735 occupation layer**

Turnshoe sole seam deliberately cut away Rand x 2

Upper triangular insert with lasting margin sl 7mm and two butted e/f seams sl 4mm to join to the upper Complete Leather calf/cattle L 127mm Ht 43mm

Waste, secondary Trimming x 3 Intersectional cutting piece x 5 calf/cattle

Scrap x 7 fragments

**TP4 3737 ?flood deposit same as 3730**

Turnshoe sole four small fragments Rand x 5

Upper, four fragments of lasting margin, seven fragments with cut and torn edges, all broken from a shoe upper Leather calf

Waste, secondary Trimming x 1

**TP4 3739 ?flood deposit**

Large turnshoe sole for the left foot, toe area missing, worn at tread and outside seat Large tread slightly displaced inward wide waist and seat E/f seam sl 9mm No repair visible

Completely delaminated L 237+mm W Tr 90mm Wt 33mm St 73mm

Turnshoe sole lower tread and wide waist of wide sole with e/f seam sl 3mm Tunnel st from repair to forepart and seat L 151+mm, max W 103mm Wt 63mm

Turnshoe sole three fragments from a wide sole forepart one with worn tunnel st from repair clump Not necessarily from the same sole

Waste, secondary Trimmings x 2 Intersectional cutting piece x 1 Offcut from sole x 1 cattle

Other x 3

Waste, primary x 1

**TP5 3465 fill of cut ?ditch 3466**

Welted shoe sole fragment with small area of g/f seam other edges torn Iron staining present of both surfaces Post-medieval L 58+mm W 33mm

**TP5 3471 occupation debris/internittent layer**

Waste, secondary Trimming x 1

Waste,primary Fragment with possible udder teat leather cattle  
Scrap x 3 with cut and torn edges likely to be torn from shoe upper calf

**TP5 3472** layer

Waste,secondary x 6 thick cattlehide Scrap x 2

**TP5 3473** occupation layer - disturbed

Waste,secondary x 4 (1 delaminated 1 sheep/goat, 2 calf)

**TP5 3474** layer

Clump sole repair fragment Rand x 1

Waste,primary Hide edge x 1 calf/cattle Scrap x 6 likely to be torn from a shoe upper

**TP5 3540** occupation layer

Waste,primary x 2 including a hide edge of calf

Scrap x 2 fragments apparently torn from shoe upper calf

**TPS 3541** layer - ?flood deposit

Turnshoe sole, four fragments of heavily worn sole with areas of e/f seam sl 8mm Also fragment cut from a heavily worn shoe sole seam

Upper, small fragment of upper lasting margin

**TP5 3543** occupation layer

Turnshoe for left foot, Complete sole, worn at outside seat Outward pointing slightly extended toe (c80/88mm), petal-shaped tread medium waist and long medium seat E/f seam sl 7mm

Worn tunnel st from clump repair to seat L 272mm, W Tr 88mm Wt 37mm St 47mm

Vamp with pointed toe, tip worn away, lasting margin sl 7mm and remains of straight butted e/f side seams sl 7mm The high throat is broken away so that the seam may well have continued straight across from one side to the other suggesting a boot of early 18th century date Leather calf/cattle L 80+mm, side seam Ht 82mm

Turnshoe sole pointed toe area deliberately cut from the rest of the sole, e/f seam sl 7mm

Rand x 4

Vamp, fragment of left side with lasting margin sl 6mm Leather heavily worn with no grain pattern visible Fragment of upper with length of whip st Leather sheep/goat

Scrap x 3 fragments likely to be broken from shoe upper

Strap, tapenng broken strap with straight terminals, one with g/f st in a rectangular pattern marking where it was st to another item the wider end has a large tear-drop shaped hole stretched from use with a broken area above on the same line as a small deliberate slash, now broken Leather worn sheep/goat W max 45mm min 30mm

Patch, elliptical patch with crude g/f st around the perimeter, one side appears to have been whip st Likely to be a repair patch from a shoe upper not a clump sole repair Leather sheep/goat L 81mm W 30mm

Waste,secondary Trimming x 4 Other x 1 calf/cattle

Waste,primary x 3 calf/cattle

**TP5 3547** layer

Clump seat repair fragment with tunnel st on flesh side along the surviving edges, others broken

Waste,secondary Tnangular piece apparently a tnmning cut from another item with two pairs of tunnel st present Heavily worn no grain pattern visible L 133mm max W 25mm

**TP5 3548** ?fence running N-S

Waste,secondary Piece with a cut and an obliquely torn edge, wear and shape suggests it is cut from a shoe component Leather cattle 88mm x 45mm

**TP5 3549** occupation layer

Turnshoe sole, rectangular piece cut from a sole with e/f seam sl 7mm present along one edge

Cobbling waste 80mm x 55mm

Upper, triangular piece with butted whip seam along one edge, other edges deliberately cut off

Leather calf 127mm x 84mm

Waste,primary Two large sheets, one definitely a hide edge, with knife cut and torn edges calf delaminated 168mm x 180mm, 310mm x 180mm

**TP5 3552** occupation layer

Upper fragment with a length of straight butted e/f seam sl 4mm and a butted whip seam at right angle to it, other edges are torn and deliberately cut off On the flesh side a small area of st to attach a strengthening cord indicates it comes from an area of throat Leather worn possibly sheep/goat L 88+mm Ht 40+mm Rand x 3

Waste,secondary Tnmmings x 4 calf and cattle

Scrap x 2

**TP5 3553** occupation layer

Turnshoe sole for left foot complete worn at outside edge Short pointed/oval toe, petal-shaped tread, medium waist and long wide seat E/f seam sl 7mm with double st from repair Heavily worn tunnel st from repair to forepart L 288mm, W Tr 92mm Wt 48mm St 80mm

Turnshoe sole oval toe worn at the tip deliberately cut from the forepart

Turnshoe sole, worn toe area deliberately cut from the forepart

Turnshoe sole wide waist area, delaminated, and 6 small fragments from it

Rand x 3 Upper x 2 small fragments calf

Waste secondary Tnmming One piece of birch bark

**TP5 3556** occupation layer

Rand from seat area of turnshoe sole

Rectangular insert from multiple lacing upper with e/f butted seams sl 8mm to join to left side seam and throat Five round fastening holes down the front edge with tunnel st on flesh side from an internal lace hole lining Top edge and front edge have whip st complete Leather calf/cattle Ht 70mm W 68mm Early/mid 14th -early 18th century

Waste,primary Pieces of unusable hide x 4 Scrap x 1

**TP5 3566** layer surface

Turnshoe sole small fragment with area of e/f seam

**TP6 3483** layer

Turnshoe sole broken fragment of e/f seam sl 6mm

**TP8 3486** occupation layer

Turnshoe front fastening ankle boot for right foot Complete sole worn through at the seat Short pointed toe, petal-shaped tread medium waist and long straight medium seat E/f seam sl 7mm Worn tunnel st from repairs to forepart and seat L 242mm, W Tr 88mm Wt 34mm St 45mm Rand x3

One-piece upper with most of lasting margin torn away sl 7mm at the toe Straight butted e/f side seam sl 4mm with thread present, straight plain cut top edge and butted e/f seam at left side of the throat to joint to a rectangular insert (missing) Central opening has two pairs of opposing large fastening holes present to take a double split lace, fragment insitu on right side The lace

holes also present on the bellows tongue of calfskin which joins to the interior of the upper front opening with a g/f whip st. A small circular pewter buckle of lozenge-shaped section (15mm x 18mm) with staining from an iron pin is attached to the right front opening with a double pointed strap. Heel stiffener of worn calfskin present at centre back held by whip st around the edge and lasting margin, cut away on the left side. Upper leather calf/cattle. Ht at centre back 110mm, heel stiffener Ht 48mm. W 120mm, tongue 158mm x 88mm. Also fragment of upper torn from it. Early 15th century style.

Forepart of two part turnshoe sole for right foot, complete, with e/f seam sl 7mm continuing across the lower waist. Short pointed/oval toe. petal-shaped tread worn at outer edge. narrow waist. worn tunnel st from two repairs to the forepart. L 186mm, W Tr 88mm. Wl 84mm.

Seat of two part turnshoe sole for left foot, complete, worn at outer seat. Long medium seat with delaminated e/f broken seam sl c 8mm, suggestion of worn tunnel st from seat repair. L 88mm. W 52mm.

Turnshoe sole left forepart. torn across the waist with toe and right side deliberately cut off, remaining s/f seam delaminated. L 140mm. W 64mm.

Rand x 5

Clump seat repair with tunnel st on flesh side around the edge 87mm x 77mm.

Forepart clump repair, torn away along the upper edge with tunnel st on flesh side. Occasional holes suggest it may have been cut from a reused sole. L 78+mm x 89mm.

Clump repair delaminated with broken sides 84mm x 72mm.

One-piece quarters with lasting margin worn/broken off except for a small area at left front seam sl 5mm. Gently backward sloping butted e/f side seams sl 4mm. The left side seam has a small peak at the junction with the domed top edge which is plain cut. Side seam and top edge junctions have whip st to attach strengthening st on the flesh side, while tunnel st from a small tab present in the middle of the left seam. Thread present. Surviving Ht 94+mm, left seam Ht 82mm. Mid-late 14th century.

Separate fastening latchet from front fastening shoe with oblique butted e/f seam delaminated sl 4mm and plain cut sides with a gently rounded terminal with a pair of fastening slits with expanded ends. Complete. Leather calf/cattle. L 75mm max. W 87mm. Late 14th century style.

Upper eight fragments with small areas of lasting margin or butted e/f seam. Leather worn calf/cattle. Scrap 12+ fragments broken from shoe components.

Waste, secondary. Tinning x 4. Waste, primary hide edges x 2 calfskin.

**TP6 3489** occupation layer

Rand x 1

Clump sole repair. two pieces with original edges with tunnel st on flesh side. others torn.

Repair piece made from a reused turnshoe sole with an area of e/f seam present. other edges knife cut. Covered in a series of g/f holes apparently for wooden pegs. 88mm x 87mm.

Waste, primary x 1 cattle

**TP8 3490** layer

Sub triangular piece cut from a turnshoe sole. all edges deliberately cut with a small area of e/f seam and worn tunnel st from a repair to the sole. 70mm x 17mm.

**TP6 3491** layer

Sheath, one side of the handle area of knife sheath with straight cut top edge deliberately cut from the blade area of the sheath. Moulded with a g/f closed seam running vertically down one side for 85mm from the top edge below which it is butted e/f seam. suspension flap on the other side with upper corner deliberately cut off with a single triangular suspension slot present.

Decorated by a panel comprising two three-leafed clovers (or shamrock) each within a roundel separated by a double parallel vertical line made by a impressed tool. Leather calf 1.5 thick.

surviving L 96+mm total W 55mm, blade handle W 40mm

Forepart of two part turnshoe sole for left foot, complete worn at seam of toe and great toe joint Oval toe, petal-shaped tread and narrow waist with seam across e/f seam sl 7mm Heavily worn tunnel st from at least two irregularly-shaped repairs to the forepart L 146mm, W Tr 75mm Wt 25mm

Complete lower tread and waist of three part turnshoe sole with e/f seam sl 7mm across the middle tread and lower waist Worn but no visible repair L 109mm, W Tr 76mm Wt 50mm

Turnshoe sole for left foot, torn away obliquely across the tread (toe and upper tread missing), medium waist and seat, much of seat worn/torn off E/f seam sl 7mm Worn tunnel st from clump repairs to forepart and seat L 152+mm, W Wt 55mm St 49mm

Upper fragment from ankle boot with whip seamed top edge other edges torn Leather

Turnshoe sole seat deliberately cut from rest of the sole across the lower waist area Worn away around the edges, delaminated e/f seam sl 5mm Poorly skived with cuts present on flesh side L 70mm W 57mm

Upper fragment with butted e/f side seam sl 5mm and worn seam at right angle to it other edges worn/torn away Leather sheep/goat 95mm x 45mm Upper fragment with area of butted e/f seam 56mm x 55mm

#### TPS 3494 layer

Turnshoe sole for left foot, upper forepart area missing and worn away along the outside edge Wide waist and long wide seat E/f seam sl 9mm Worn tunnel st from repairs to forepart and seat L 180+mm, W Wt 48mm St 60+mm

Upper fragment with one cut area Leather calf/cattle 92+mm x 72+mm

#### TP7 3520 modern layer

Welted Victorian working boot for right foot Insole with square toe, narrow tread, wide waist and seat. Much of the outer side broken off Raised nb stitching channel around the perimeter on the flesh side changing to an e/f seam around the seat L 217+mm, W Toe 42mm Tr 55mm Wt 45mm St 52+mm Fragment of middle and waist area of sole with shanks of iron hobnails present Lift from a stacked heel with traces of hobnails and st around the perimeter Numerous small pieces of trimmings which appear to have been used as middle packing Length of welt. Vamp with square pleated toe and lasting margin sl 5mm with double lines of st from lapped side seams The square throat has been deliberately cut as has an area of the left side of the toe and great toe joint The right front lapped seam of quarters with a double line seam st for upper 18mm and a single line of st below Leather calf/cattle worn grain inward to foot and flesh side outward Inner lining with lasting margin double lapped side seam and whip st top edge Leather probably calf worn grain outward to the foot Apparently working boot either a Blucher or Derby deliberately cut up

#### TP7 3532 layer

Turnshoe sole for right foot, worn through at toe, big toe joint and across the tread, and broken from the rest of the sole Oval toe with e/f seam sl 7mm with suggestion of worn tunnel st from repair L 110+mm

Forepart clump repair for right foot with pointed toe Tunnel st around edges on flesh side, torn across bottom edge, worn away at outside edge, may belong with sole fragment above L c 117+mm

Clump repair fragment

Sole or possibly welted insole waist area torn from forepart and deliberately cut away from seat

Tunnel st on flesh side suggests it has been reused as a clump repair piece 57mm x 55mm

Rand x 1 Upper fragment of lasting margin Scrap x 15 fragments broken from shoe components, possibly clumps above

#### TP7 3537 layer

Turnshoe sole, seat area heavily worn with e/f seam sl 5mm possibly deliberately cut from the rest of the sole across the waist L 65mm x 46mm

Turnshoe sole pointed toe area e/f seam 6mm, small fragment of sole seam

Turnshoe sole seat worn through at the right side, e/f seam sl 7mm deliberately cut from rest of the sole Piece of matching wide rand W 10mm

Seat area of turn-welt with seam and worn tunnel st to attach a clump seat repair W 15mm

Probably 15th century

Narrow rand x 2

Pieces of five clump repairs with tunnel st on flesh side around the original edges Numerous small fragments of scrap probably broken from the clump repairs

Large triangular heel stiffener with left side of lasting margin torn off, whip st along each side and lasting margin with small st appears to be from a welted shoe upper Leather calf/cattle Ht c

60mm Upper x 3 small fragments

Waste,secondary Tnmms x 3 Also fragments of ?birch bark

TP7 3538 tayer

Lacing upper fragment with four lace holes originally internally lined Leather worn calf Ht 71+mm W 70+mm 14th-early 15th century

Boot vamp right side left side and toe area torn away, lasting margin sl 7mm Gently curving butted e/f seam sl 4mm running from the lasting margin straight across the instep in a high throat indicating a boot vamp A knife cut running vertically toward the toe appears to be a central opening slit Leather cattle 126+mm x 98+mm 15th century

Upper fragment of lasting margin torn Leather worn calf/cattle

Scrap x 5 fragments broken from shoe components

Waste,secondary Tnmms cut from a clump repair piece with a tunnel st along the surviving area of original edge

TP7 3539 post hole filled with 3573

Upper fragment with a butted whip seam, a vertical cut edge, other edges torn away Leather worn calf L 100+mm W 71+mm

Scrap compacted fragment from sole or clump repair

TP7 3570 layer -?trampled floor surface

Turnshoe sole for left foot, complete, worn away at outside seat short pointed toe, petal-shaped tread, medium waist and straight medium seat E/f seam sl 5mm Tunnel st from repair to clump and two repairs to forepart L 236mm, W Tr 77mm Wt 42mm St 45mm

Turnshoe sole for left foot, complete, worn through at great toe joint and torn in two across the tread Outward curving pointed toe, petal-shaped tread, medium waist and long straight medium seat E/f seam sl 5mm L 250mm W Tr 52mm Wt 42mm St 46mm

Turnshoe sole for child's right foot toe and upper forepart cut and worn away, seat area worn away Petal-shaped tread, wide waist and straight wide seat E/f seam sl 6mm Skiving marks on flesh No visible repair L c 178mm, W Tr 72mm Wt 40mm St 42mm

Turnshoe sole seat for right foot, deliberately cut from rest of sole across the waist E/f seam sl 5mm L 50mm W 44mm

Large forepart clump repair with pointed toe and petal-shaped tread Tunnel st on flesh side Complete Delaminated L 146mm W 99mm

Clump fragment of right side

Forepart clump repair with pointed toe to repair the left side of a left turnshoe, tunnel st on flesh side Complete L 122mm W 65mm

Rand x 2

Upper fragment with lasting margin broken off and two e/f butted seam sl 4mm running vertically The top edge has been irregularly cut down Appears to be the left side of two-part quarters from a boot No indication of heel stiffener Leather heavily worn calf/cattle Surviving Ht c120+mm W 130mm 15th century



Heel area of one-piece ankle boot upper, two joining fragments, with a length of whip seamed top edge present on the right side. Left side has been deliberately cut away. Heel stiffener insitu whip st to centre back. Small area of lasting margin sl 6mm remains on the heel stiffener, rest worn/torn away. Leather upper and stiffener calfskin.

Triangular upper insert with straight cut top edge, two whip seams and very small area of butted e/f seam. Leather calfskin 95mm x 55mm.

Turnshoe side lacing ankle boot for the right foot, highly fragmentary, with plain straight cut top edge. Fastening at the side with nine lace holes with an internal lace hole lining. Surviving lasting margin sl 7mm. Upper calf/cattle, lining sheep/goat. Side seam Ht c 126mm 14th-earlier 15th century.

Two large heel stiffeners from boots both of calfskin. Ht 62mm W 140mm, Ht 90mm. Upper c 10 fragments.

Triangular piece deliberately cut from shoe upper with butted whip seam along one side, the others cut. Leather sheep/goat L 128mm W 50mm.

Internal lace hole lining, broken with four lace holes remaining, lasting margin and whip st to attach to upper. Leather calfskin W 29mm.

Scrap Numerous small fragments broken from shoe components.

Waste, primary Unusable hide x 2 (1 sheep/goat, 1 calf/cattle).

Piece cut and torn from a larger object with a convex curved cut edge ending in a large lobe at one end and a straight cut edge at right angle at the other, the rest torn away. A series of slits varying in size (no thread impressions visible) are present concentrating along the cut edges suggesting they are original. Identification uncertain possibly from upholstery. Leather sheep/goat L c190+mm W 115+mm.

#### TP7 3572 occupation layer

Forepart of two part turnshoe sole, toe area broken away, petal-shaped tread long medium waist. E/f seam sl 7mm. Worn tunnel st at waist from clump seat repair. L 222+mm W Tr 96mm Wt 39mm.

Rectangular insert from boot upper with a straight and a gently curved butted e/f seam sl 4mm. Leather calf Ht 96mm W 102mm.

Waste, primary Hide edge x 2 calf/cattle Scrap x 2 fragments.

#### TP7 3574 layer

Turnshoe sole for left foot, tip of toe and outside seat worn away. Slightly extended pointed toe, petal-shaped tread, medium waist and long straight seat. E/f seam sl 6mm. Worn tunnel st at waist from clump seat repair. Almost complete. L 245mm, W Tr 78mm Wt 55mm St 48mm.

Turnshoe sole for right foot, worn at outside seat. Extended (c 40mm) pointed toe, petal-shaped tread displaced slightly inward, medium waist and long straight medium seat. E/f seam sl 7mm. Worn tunnel st across lower waist from clump seat repair. complete. L 240mm, W Tr 78mm Wt 55mm St 46mm.

Turnshoe sole for left foot, worn away at outside seat. Extended (55mm) pointed toe. petal-shaped tread, medium/wide waist and straight medium seat. Worn tunnel st from forepart clump repair. E/f seam sl 5mm. L 265mm, W Tr 55mm Wt 47mm St 48mm.

Turnshoe sole for right foot, left side of forepart torn away but was heavily worn, worn through at inside edge and centre of seat. Short oval toe, petal-shaped tread wide waist and straight wide seat. E/f seam sl 7mm. Tunnel st from repair to seat. Wear suggests a 'pigeon-toed' condition. L 155mm Tr? Wt 40mm St 55mm.

Fragment of narrow rand W 5mm.

Large heel stiffener with fine lasting margin sl 7mm. whip st along sides. Worn grain outward to the foot. Leather worn sheep/goat. Ht 78mm W 160mm.

Large heel stiffener unusual in being worn flesh side outward to the foot Lasting margin sl 7mm and whip st at sides Leather sheep/goat Ht 60mm W 160mm  
Waste,primary Unusable area of hide calf/cattle and small fragments broken from it

**TP7 (3576) MISNUMBERED SHOULD BE 3574**

Turnshoe sole, two delaminated fragments of forepart, both with tunnel st from repair  
Clump repair fragment, irregularly shaped torn away across one side with tunnel st on flesh side L 60+mm W 59mm Rand x 2  
Internal lace hole lining with six small lace holes surviving, broken at each end with whip st to joint to upper Leather calf W 25mm 14th-mid 15th century  
Upper insert fragment with five lace holes present and remains of a plain cut top edge Butted whip st to joint to the upper St from the attachment of an internal lace hole lining (not the above lining) Leather calf/cattle Ht 70mm W 42mm 14th-mid 15th century  
Upper fragment with four oval fastening holes Leather delaminated heavily ?calf  
Upper 6+ small fragments of broken shoe components  
Waste,secondary Large tinning x 1 cattle  
Waste,primary unusable hide areas x 4

**TP7 3577 layer**

Turnshoe sole for left foot with oval toe worn away and also deliberately cut for a short distance, wide tread, waist and seat E/f seam sl 6mm Compete large sole moulded around the foot No visible repair L c252mm, W Tr 92mm Wt 66mm St 76mm  
Rand, pointed toe area W 6mm  
Clump seat repair, nght side with tunnel st on flesh side, left side worn and torn away  
Waste,secondary intersectional cutting piece cattle

**TP7 3579 layer**

Turnshoe sole, large complete sole for right foot, worn through at centre of seat and around edge Oval toe wide tread, waist and seat E/f seam 6mm Worn tunnel st from irregularly shaped clump repairs to forepart and seat L 269mm, W Tr 99mm Wt 66mm St 76mm  
Turnshoe sole forepart for left foot, torn from the rest of the sole Oval toe and medium tread e/f seam sl 6mm with thread present Worn but no visible repair L 126+mm, W Tr 66mm  
Turnshoe sole for right foot, worn through at the great toe joint and deliberately cut from the seat and lower waist Oval toe, petal-shaped tread, medium/wide waist E/f seam sl 7mm Worn tunnel st from an irregularly shaped clump down the left side to mend the wear hole at the toe joint L 202mm, W Tr 90mm Wt 48mm  
Turnshoe sole medium/wide waist and seat irregularly torn from forepart of sole (not that above) Heavily worn at edge of seat E/f seam sl 6mm No repair visible W Wt 62mm St 61mm  
Turnshoe sole forepart deliberately cut from the toe and the lower tread with e/f seam sl 7mm Worn but no visible repair L 96mm max W 99mm  
Turnshoe sole probably for left foot upper tread torn away Narrow waist and long medium seat worn along the left edge E/f seam 6mm Worn tunnel st from forepart repair L 146+mm W Wt 29mm St 42mm

Turnshoe drawsting fastening ankle boot One-piece upper with lasting margin sl 7mm present along the nght side but torn/worn away on the left Obliquely sloping butted e/f side seam on the left side turning into a short 'dog-leg' at the top tiefore rising into the front edge of the quarters where it has a whip st for half its height indicating that a separate tongue was originally attached Relatively complicated cutting pattern with a triangular insert at the lower side seam to fill in the lower quarters area to the lasting margin and a large triangular insert at the right front edge of the quarters A pair of double of thong slits in the nght quarters and a small thong insitu a the left throat and side seam junction Leather calf Ht at centre back c 108mm, L toe to throat c 170mm Early-mid 13th century style

Turnshoe translated quarters. Quarters area from a one-piece upper or a large one-piece quarters possible originally of toggle-fastening style. The right side seam has a fine butted e/f seam sl 3mm originally with a triangular insert to join to the lasting margin. The left seam has a 'dog-teg' turn to join to the throat but is cut away before the lasting margin (so whether originally a one-piece upper or separate quarters is uncertain). The top edge is straight with a whip seam, the left front seam junction is butted to join a wide insert originally (possibly originally with a multiple toggle fastening). A small tear has been repaired with a fine butted seam. On the flesh side tunnel st marks the former position of two heel stiffeners in the same place but one taller than the other. The lasting margin remains at the heel area only and is very closely stitched, no doubt the result of lasting in the replacement heel stiffener. Two sets of two pairs of holes made with a knife point are present for a crude thong fastening with thong impressions visible on the grain side, from a wrap around thong fastening. Leather heavily worn with little grain pattern visible possibly sheep/goat. L 213mm, Ht centre back 33mm.

Turnshoe vamp from a boot, lasting margin sl 3mm present on the right side, the toe area and left side torn away. Short, straight e/f butted right side seam sl 3mm which extends across the high slightly concave curving throat to the beginning of the left side seam. Rest torn away. Tunnel st to attach a small rectangular tab is present on the flesh side at the throat close to the junction with the right side seam. Leather sheep/goat. Surviving L toe to throat 133+mm, W 168+mm, seam Ht c43mm. Early 13th century. Clump repair, two delaminated fragments.

TP7 3600 layer

Turnshoe sole seat worn through at the outside edge. e/f seam sl 3mm with thread present deliberately cut from the rest of the sole across the upper seat. L 73mm, W 64mm.

TP7 3601 layer above alluvial silt

Scrap, curved fragment apparently broken from a shoe component.

TP7 3604 fill of construction trench (3605) for timber fencing (3571)

Large, wide seat of two part turnshoe sole. E/f seam sl 9mm extending across the upper seat. Heavily worn tunnel st to attach a clump seat repair. Complete. L 78mm, W 70mm.

Toggle-fastening turnshoe quarters area, broken up at the heel area with lasting margin remaining in one small area, rest torn away. Straight top edge with a butted whip seam with a length of the joining simple top band present max W 3mm. The left front opening is straight with two sets of triple vertical slits to hold the fastening toggles. One has a fragment insitu. The lower area has been obliquely cut away. The right front edge has whip st to join the top band with three very long horizontal slits to hold the toggle fastening c 37mm in length. Leather calf. A small heel stiffener also present. Leather heavily worn ?calf. Ht 66mm, W 34mm. Mid 13th-mid 14th century style.

TPS 3587 occupation layer

Rand x 1 Waste, secondary. Tinning x 1 Waste, primary. Hide edge x 1 calf/cattle.

TPS 3588 area of disturbance

Turnshoe sole piece deliberately cut from a sole with e/f seam sl 7mm. 47mm x 33mm.

TP3 3589 layer

Side lacing turnshoe boot, almost complete but highly fragmentary upper with areas of lasting margin present sl 7mm. Fastening at the side with multiple lace holes a maximum of twelve remaining, originally internally lined. A separate large rectangular insert attached to the throat and central front seam with whip e/f st continues the lace holes to above ankle height. St on flesh side from a large heel stiffener at centre back. Leather heavily worn calf/cattle. L approx toe to

heel c 180mm, Ht centre back 120mm Early 19th century

Turnshoe sole, two lengths of e/f seam deliberately cut away from soles Thread is present in one example cut from a two part sole Narrow rand x 8 Upper small fragments x 9  
Waste,secondary trimmings x 2 Waste,primary hide edge x 1 calf/cattle

TP8 3598 occupation layer  
Upper, length of lasting margin sl 5mm deliberately cut away Leather calf/cattle

TP8 3644 cobbled ground surface  
Turnshoe sole, three small fragments  
Scrap, small fragments x 3  
Waste,secondary trimmings x 3 Other pieces x 4 including one with guide line present

TP8 3646 occupation layer  
Turnshoe sole, small fragment with worn tunnel st from repair  
Waste,secondary Trimmings x 2 Other pieces x 12 different hides including calf/cattle and sheep/goat

TP8 3647 occupation layer  
Turnshoe sole, wide waist torn away across the lower tread and across the seat E/f seam sl 5mm with worn tunnel st from repair clumps to forepart and seat L c 199+mm, W max 95mm, Wt 69mm  
Turnshoe sole, two fragments of sole seam Three pieces deliberately cut from a sole seam  
Upper?, large piece with two cut edges meeting at a right angle, other side irregularly torn away and heavily worn A single awl made hole is present Leather worn cattle Three other pieces of scrap possibly torn from it No other diagnostic features Possibly broken from a one-piece ankle boot upper  
Waste,secondary Trimmings x 25 some very fine including some of worn leather suggesting cobbling Intersectional cutting pieces x 5 different hides Other pieces x 26, various leathers some delaminated  
Waste,primary Hide edges and belty skin etc x 5  
Scrap various small torn fragments

TP9 3635 occupation/demolition  
Welted sole, seat area torn away across the lower waist worn at the right edge suggesting it comes from a right footed shoe Double line of g/f st around the perimeter L 79+mm, W 72mm  
Post-medieval  
Turnshoe sole, piece cut from right side of sole, heavily worn with remains of e/f seam and tunnel st Complete L 70mm W 25mm  
Large forepart clump repair, worn down the left side, torn across the right corner, deliberately cut across the top edge Apparently made from a cut down turnshoe sole L 199mm, max W 92mm  
Waste,secondary Trimming x 1 cattlehide trimming x 1 heavily worn x 1 L 62mm, max W 19mm  
Scrap x 2 small fragments

TP9 3636 occupation layer  
Turnshoe sole, three fragments of heavily worn sole, two with tunnel st from repair  
Clump seat repair with tunnel st around edge on flesh side deliberately cut away across one side 70mm x 99mm  
Clump repair, two small fragments  
Turn-welt piece, worn with e/f seam and heavily worn tunnel st to attach a clump repair W max c15mm Probably 19th century  
Scrap x 4 compacted probably torn from a shoe sole

Waste,secondary fragment calfskin

TP9 3637 layer - ?demolition rubble

Strap, small length of straight-sided strap broken at each end Three g/f st present Leather heavily worn no grain pattern visible L 54+mm, W 16mm

Turnshoe sole, two small fragments broken from heavily worn sole

Clump repair nght side of clump with tunnel st on flesh side rest torn away 92mm x 31+mm

Clump seat repair, worn on left side and cut across the lower waist 32mm x 33mm

Upper tnangular piece of upper with unmoulded lasting margin sl 3mm from heel area, grain outward to the foot suggesting a piece deliberately cut from a heel stiffener from a shoe of weited construction of post-medieval date Ht 23mm, W 99+mm

Waste,pnmary x 4

Scrap x 25 torn fragments broken from other shoe components

TP9 3639 occupation layer

Turnshoe sole for left foot worn at the toe and torn away across the lower waist Short pointed toe, petal-shaped tread medium waist and seat E/f seam sl 7mm Worn tunnel st from repair to forepart and possibly seat L 181+mm, W Tr 75mm WI 33mm St 42mm

Turnshoe sole, forepart and lower seat torn away Medium waist and seat with e/f seam sl 7mm

No repair visible L 122+mm, W Wt 33mm St 42mm

Turnshoe sole short pointed toe area torn from rest of the sole, and two fragments of sole seam Narrow rand W 4mm

Forepart clump repair with pointed toe, worn away down the left side, tunnel st on flesh side along the nght side L 110mm, W 60+mm

Waste,secondary x 1

TP9 3680 layer (same as 3637)

Scrap x 2 small fragments torn from shoe components

TP9 3681 layer

Waste,secondary tnmning x 1 cattlehide

TP9 3684 layer

Narrow rand fragment W 3mm

TP11 3658 ?flood deposit/redeposited natural

Waste,secondary Trimming x 1 (torn in two)

TP11 3663 area of burning within 1661

Waste,secondary Trimming x 1 cattlehide