

THE ARCHAEOLOGY OF TOWN CREEK: CHRONOLOGY, COMMUNITY
PATTERNS, AND LEADERSHIP AT A MISSISSIPPIAN TOWN

Edmond A. Boudreaux

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Approved by

Advisor: Dr. Vincas P. Steponaitis

Reader: Dr. Brian Billman

Reader: Dr. R. P. Stephen Davis, Jr.

Reader: Dr. Brett H. Riggs

Reader: Dr. H. Trawick Ward

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ABSTRACT

Edmond A. Boudreaux: *The Archaeology of Town Creek: Chronology, Community Patterns, and Leadership at a Mississippian Town*
(Under the direction of Vincas P. Steponaitis)

Town Creek is an archaeological site located on the Little River in Montgomery County, North Carolina. Long-term fieldwork at Town Creek indicates that the site was occupied at least intermittently by Native Americans for thousands of years. This dissertation reconstructs the site's late prehistoric through early historic period occupation (A.D. 800 to 1650), particularly the several hundred years (A.D. 1150 to 1450) during the Mississippian period when the community consisted of a planned town with domestic and public spaces. Pottery and radiocarbon dates from Town Creek and several related sites are used to refine the area's cultural chronology and define ceramic attributes diagnostic of different periods. The distribution of postholes, burials, and pits is analyzed and discrete architectural units are defined from the thousands of features at Town Creek. Architecture is dated to different periods and an occupational history consisting of five stages is defined. Attributes of buildings are used to identify public and domestic structures within each stage. Public architecture at Town Creek included an earthen platform mound which was constructed around A.D. 1250, approximately 100 years after the town's founding.

Once an occupational history is established, mortuary and ceramic data are used to explore synchronic variation and diachronic change. Emphasis is placed on changes in the nature of leadership roles that may have accompanied mound construction. In particular, a

model that proposes a relationship between changes in public architecture and the centralization of political authority in Mississippian societies is tested against the archaeological record of Town Creek. The data indicate that changes in leadership and site structure were associated with mound construction at Town Creek, but that these changes do not necessarily reflect the centralization of political authority.

For Christy. It's done.

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TABLE OF CONTENTS

	Page
LIST OF TABLES	xi
LIST OF FIGURES	xiii
Chapter	
1 Background	1
MISSISSIPPIAN ARCHITECTURE AND LEADERSHIP	2
CHIEFDOMS AND CHIEFS	6
SOUTH APPALACHIAN MISSISSIPPIAN	9
THE TOWN CREEK SITE	12
RESEARCH OBJECTIVES	29
2 Ceramic Chronology	32
CERAMIC ANALYSIS AND TYPOLOGY	33
SERIATION	54
GROUPS AS CERAMIC PHASES	75
ADDITIONAL DIAGNOSTIC ATTRIBUTES	89
REGIONAL COMPARISONS	91
3 Architecture	95
IDENTIFYING ARCHITECTURE AT TOWN CREEK	96
DESCRIPTIONS OF ARCHITECTURAL ELEMENTS	110
STRUCTURE TYPES	199

	CONCLUSION	225
4	Occupational History of Town Creek	229
	PUBLIC AND DOMESTIC ARCHITECTURE IN THE SOUTHEAST	230
	LATE WOODLAND-PERIOD OCCUPATION (CA. A.D. 800 TO 1000)	232
	TEAL-PHASE OCCUPATION (CA. A.D. 1000 TO 1150)	236
	EARLY TOWN CREEK-PHASE OCCUPATION (CA. A.D. 1150 TO 1250)	236
	LATE TOWN CREEK AND LEAK PHASE OCCUPATIONS (A.D. 1250 TO 1350)	245
	LATE LEAK-PHASE OCCUPATION (CA. A.D. 1350 TO CA. 1450)	256
	CARAWAY-PHASE OCCUPATION (CA. A.D. 1550 TO 1700)	258
	CONTINUITY IN SITE STRUCTURE AND PUBLIC ARCHITECTURE	260
	CONCLUSION	263
5	Mortuary Analysis	266
	ROLES AND STATUSES IN THE MORTUARY RECORD OF TOWN CREEK	267
	DATA AND METHODS	270
	THE TOWN CREEK MORTUARY RECORD	271
	MORTUARY PATTERNS	312
6	Vessel Analysis	350
	DATA AND METHODS	352
	VESSEL CLASSES AND TYPES	354

	FUNCTION	370
	ORIFICE DIAMETER	384
	SUMMARY AND INTERPRETATION OF VESSEL ANALYSIS PATTERNS	387
7	Conclusion	397
	IMPLICATIONS FOR MISSISSIPPIAN RESEARCH	406
Appendix		
I	Burial Data	413
II	Vessel Data	420
	REFERENCES CITED	425

LIST OF TABLES

Table	Page
2.1. Surface treatment counts in seriated assemblages	56
2.2. Rim modes from seriated assemblages	56
2.3. Contexts of assemblages used in seriation	57
2.4. Counts of select surface treatments used for multidimensional scaling	61
2.5. Percentages used for multidimensional scaling	61
2.6. Incidence seriation based on rim modes	67
2.7. Incidence seriation based on select surface treatments and rim modes	67
2.8. Surface treatment counts and percentages from select riverbank-midden units	74
2.9. Pee Dee rim treatment counts and percentages from select riverbank-midden units ...	74
2.10. Rim modes in the baseline and L10 units from the mound	74
2.11. Surface treatments by phase	76
2.12. Rim modes by phase	76
2.13. Complicated stamped patterns by phase	77
2.14. Calibrated and uncalibrated dates (A.D.) for phases	77
2.15. Mississippian period radiocarbon dates from the Town Creek, Leak, Payne, and Teal sites	78
2.16. Decorated and plain small sherds (<4cm) by phase	90
2.17. Plain and decorated rims by phase	92
3.1. Pottery in architectural elements	115
3.2. Surface treatments of large sherds (<4cm) in the baseline and L10 units from the mound	154
3.3. Pottery from Feature 58/Mg3	192

3.4. Attributes of circular structures	201
3.5. Attributes of rectilinear structures	202
3.6. Pottery by structure type	220
4.1. Glass beads	261
6.1. Counts of use-alterations by vessel type	359
6.2. Percentages of use-alterations by vessel type	359
6.3. Use-alterations on vessels used for urn burials	372
6.4. Vessel types by context including burial associations	373
6.5. Vessel types by context excluding burial associations	374
6.6. Vessel categories by context including burial associations	380
6.7. Vessel categories by context excluding burial associations	382

LIST OF FIGURES

Figure	Page
1.1. The location of Town Creek in the Mississippian culture area	3
1.2. The South Appalachian Mississippian culture area	10
1.3. Pee Dee culture and related sites	13
1.4. Early fieldwork at Town Creek, 1942	16
1.5. Early fieldwork at Town Creek, 1941	16
1.6. Mg2 excavation grid	17
1.7. Mg3 excavation grid	18
1.8. Topographic map of the Town Creek mound based on Coe's 1937 data	20
1.9. 1937 photograph showing damage to the eastern part of the Town Creek mound	21
1.10. 1940 photograph of mound excavations	21
1.11. Mound excavated to the base of the first habitation level, 1940	22
1.12. 1940 photograph of Town Creek mound excavation	22
1.13. Excavating and screening plowed soil in a nonmound unit, 1957	24
1.14. Workers positioning a mapping frame to record excavated features in Sq. -90R30/Mg3, 1941	24
1.15. Map showing units that contain five or more unexcavated features	25
2.1. Pottery analysis decision tree	34
2.2. Pee Dee surface treatments: brushed, check stamped, cob impressed, fabric marked, and net impressed	38
2.3. Pee Dee series complicated stamped pottery	40
2.4. Pee Dee series wide complicated stamped pottery	40
2.5. Pee Dee complicated stamped patterns	41

2.6. Pee Dee complicated stamped patterns	42
2.7. Pee Dee series cordmarked pottery	44
2.8. Pee Dee series fine cordmarked pottery	44
2.9. Pee Dee surface treatments: simple stamped and textile impressed	46
2.10. Rim modes: folded and strips	49
2.11. Rim modes: nodes, pellets, and rosettes	50
2.12. Punctated rim mode	51
2.13. Thickened rim mode	53
2.14. Location of seriated assemblages from Town Creek	58
2.15. Pee Dee sites near Town Creek	58
2.16. Multidimensional scaling plot of Town Creek assemblages	63
2.17. Multidimensional scaling plot of all Pee Dee assemblages	65
2.18. Ford seriation graph based on the percentages used for multidimensional scaling	65
2.19. Multidimensional scaling plot of all Pee Dee assemblages showing ceramic groups	70
2.20. One sigma range for uncalibrated Mississippian Period radiocarbon dates	80
2.21. One sigma range for calibrated Mississippian Period radiocarbon dates	80
2.22. Ford seriation graph of select surface treatments (percentages) by phase	81
2.23. Rosettes from Feature 16/Mg2	84
2.24. Bar chart showing the ratio of decorated to plain small sherds (<4 cm) by phase	90
2.25. Bar chart showing the ratio of plain to decorated rims by phase	92
3.1. Mapping and excavating features in a nonmound unit at Town Creek	97
3.2. Excavation of the first temple level on the mound summit, 1941	97
3.3. View of the site showing the photo tower and reconstructed mound, 1952	98

3.4. View of excavations with reconstructed palisade in background	98
3.5. Map showing excavation units that contain five or more unexcavated features	100
3.6. Excavating plowzone in a nonmound unit at Town Creek, 1952	102
3.7. Trowelling the surface at the base of plowzone, 1952	102
3.8. Stanley South on the photographic tower, 1957	103
3.9. Photographer at the top of the photographic tower, 1952	103
3.10. Roy Dickens assembling a portion of the photographic mosaic	104
3.11. Portion of the photographic mosaic assembled by Roy Dickens	104
3.12. Original site map of Town Creek	106
3.13. Portion of the digital photographic mosaic showing Structure 7	107
3.14. Revised site map of Town Creek	108
3.15. Identified architectural elements at Town Creek	111
3.16. Identified structures and burial clusters at Town Creek	112
3.17. Map showing excavated areas at Town Creek	113
3.18. All features in the Mound Area	117
3.19. Identified architectural elements in the Mound Area	118
3.20. Axes intersecting features in submound buildings	123
3.21. Light-colored soil over Structure 4b, 1940	125
3.22. Earth-embanked wall and postholes at northeastern corner of Structure 23a, 1937	127
3.23. Earth-embanked wall and postholes at northeastern corner of Structure 23a, 1937	129
3.24. Exavation of Structure 23a, 1937	129

3.25. Field map of Mg2 showing the base of the earthen embankment surrounding Structure 23a	130
3.26. Photograph showing the premound embankment stratigraphically above the layer of burned logs, 1940	134
3.27. Portion of burned logs and ash layer beneath the mound, 1938	134
3.28. Section of mound profile, 1937	135
3.29. Section of mound profile	135
3.30. Mound profile along the L10 line	137
3.31. Mound profile along the 30 ft line	138
3.32. Test trench into the mound showing Level X, outlined with protruding artifacts, 1937	141
3.33. Structures 45a and 45b on the mound summit	143
3.34. Features associated with Structure 45a and 45b on the mound summit	144
3.35. Structures 46a and 46b on the mound summit	145
3.36. Schematic maps of mound-summit structures at the Dyar and Toqua sites	147
3.37. Schematic representation of the stratigraphic relationships in the Mound Area	150
3.38. Structure 23a after excavation with Burial 6/Mg2 in the foreground, 1937	152
3.39. Palisade lines superimposed by the mound, 1940	155
3.40. All features in the Eastern Area	160
3.41. Identified architectural elements in the Eastern Area	161
3.42. Identified architectural elements within Enclosure 1	162
3.43. Soil discoloration in Sq. 50/Mg3 adjacent to Structure 22, facing south	163
3.44. Identified architectural elements in the northern part of the Eastern Area	165
3.45. Identified architectural elements in the southern part of the Eastern Area	167
3.46. Axes within Enclosure 1 that intersect Burial 20/Mg3	169

3.47. Alignments among submound features and burials superimposed by Enclosure 1 ...	171
3.48. Dog burial within Burial Cluster 11, 1940	178
3.49. Postholes forming the southern wall of Enclosure 1 and their relationship with Burials 39 and 37/Mg3, 1941	173
3.50. Clay pipe associated with Burial 57/Mg3	175
3.51. Schematic representation of the stratigraphic relationships in the Eastern Area	177
3.52. Brass gorget associated with Burial 52/Mg3	180
3.53. All features in the Northwestern Area	181
3.54. Identified architectural elements in the Northwestern Area	182
3.55. All features in the Southwestern Area	185
3.56. Identified architectural elements in the Southwestern Area	186
3.57. Excavated portion of Feature 58/Mg3	187
3.58. Cross-section of Feature 58/Mg3	187
3.59. Section of the digital photographic mosaic showing Structure 18	189
3.60. Stone pipe associated with Burial 135/Mg3	191
3.61. All features in the Central Area	193
3.62. Identified architectural elements in the Central Area	194
3.63. Deep postholes near the center of the plaza, 1957	196
3.64. Scatterplot of the number of burials against structure area for excavated structures by structure shape	203
3.65. Histogram of burial density (count/100 ft ²) by structure	203
3.66. Eoxplot of burial density (count/100 ft ²) by structure shape	204
3.67. Histogram of area (ft ²) of all circular structures	207

3.68. Histogram of area (ft ²) of circular structures excluding exterior patterns in Enclosed Circular Structures	207
3.69. Enclosed Circular Structures	208
3.70. Small Circular Structures	210
3.71. Histogram of the number of burials in circular structures	211
3.72. Histogram of area (ft ²) of all rectangular structures	213
3.73. Large Rectangular Structures	214
3.74. Earth-embanked Structures	216
3.75. Medium Rectangular Structures	217
3.76. Small Rectangular Structures	217
3.77. Unclassified structures	218
3.78. Bar chart of ratio of plain to decorated rims by structure type	224
4.1. Schematic map of possible Teal-phase architectural elements	237
4.2. Schematic map of the early Town Creek-phase occupation	238
4.3. Schematic drawings of submound public buildings	240
4.4. Schematic map of the terminal early Town Creek-phase occupation	241
4.5. Boxplot comparing burial density (count/ft ²) between early Town Creek-phase circular and rectilinear structures	242
4.6. Histogram of burial density (count/ft ²) in early Town Creek-phase structures	242
4.7. Boxplot comparing posthole density (count/perimeter) between excavated circular and rectilinear early Town Creek-phase structures	244
4.8. Histogram of early Town Creek-phase structures by area (ft ²)	244
4.9. Schematic map of the late Town Creek-Leak-phase occupation	246
4.10. Histogram of all late Town Creek-Leak-phase structures by area (ft ²)	250

4.11. Histogram of late Town Creek-Leak-phase structures by burial density (count/100 ft ²)	253
4.12. Schematic map of the late Leak-phase occupation	257
4.13. Schematic map of the Caraway-phase occupation	259
5.1. Burials associated with Structure 18	272
5.2. Burial 135/Mg3	274
5.3. Objects associated with Burial 135/Mg3	275
5.4. Burials associated with Structures 4a and 24	276
5.5. Bone scratchers associated with Burial 6/Mg2	278
5.6. Burials associated with Structures 4b, 23a, and 23c	279
5.7. Burials in Small Circular Structures	282
5.8. Urn burial <i>in situ</i> , 1937	283
5.9. Pine Island style shell gorget	285
5.10. Copper axe associated with Burial 50/Mg3	285
5.11. Burial 50/Mg3	286
5.12. Objects associated with Burial 68a/Mg3	287
5.13. Burials associated with Structures 45a and 45b on the mound summit	288
5.14. Burial 59/Mg2	290
5.15. Objects associated with Burial 59/Mg2	291
5.16. Burial 60/Mg2	292
5.17. Burials associated with Structures 46a and 46b on the mound summit	293
5.18. Marine shell pin from Burial 48/Mg2	294
5.19. Burials associated with Enclosure 1 and Structure 51	294
5.20. Burial 5/Mg3	296

5.21. Conch-shoulder gorgets from Burial 5/Mg3	297
5.22. Burial 37/Mg3	298
5.23. Objects associated with Burial 37/Mg3	300
5.24. Polished stone discs with Burial 33/Mg3	301
5.25. Objects associated with Burial 36/Mg3	302
5.26. Columella beads associated with Burial 23/Mg3	303
5.27. Burial 20/Mg3	303
5.28. Objects associated with Burial 20/Mg3	304
5.29. Burials in Enclosed Circular Structures	306
5.30. Burials in Large Rectangular Structures	308
5.31. Burial 62/Mg3	308
5.32. Burial associated with Structure 5b	310
5.33. Burials associated with Structure 28	310
5.34. Burials in the Caraway-phase burial clusters	311
5.35. Artifacts associated with Burial 52/Mg3	313
5.36. Artifacts associated with Burial 57/Mg3	314
5.37. Burials by age class (percent) in the Late Woodland Structure 18	316
5.38. Burials by age-sex class (percent) in the Late Woodland Structure 18	316
5.39. Burials by age class (percent) in Small Circular, Enclosed Circular, and Large Rectangular Structures	318
5.40. Burials by age-sex class (percent) in Small Circular, Enclosed Circular, and Large Rectangular Structures	319
5.41. Burials by age class (percent) in Premound Public Structures, Mound-summit Structures, and Enclosure 1	320

5.42. Burials by age-sex class (percent) in Premound Public Structures, Mound-summit Structures, and Enclosure 1	321
5.43. Burials by age class (percent) in Protohistoric burial clusters	323
5.44. Burials by age-sex class (percent) in Protohistoric burial clusters	323
5.45. Burial Clusters 40 and 21	325
5.46. Histogram of NAT for Protohistoric burials with grave goods	330
5.47. Submound public buildings and associated burials	332
5.48. Histogram of NAT for early Town Creek-phase burials with grave goods	336
5.49. Bar chart of percentage of early Town Creek-phase burials with grave goods in public and nonpublic contexts	336
5.50. Histograms of NAT for early Town Creek and late Town Creek-Leak-phase burials with grave goods	342
5.51. Location of the two late Town Creek-Leak-phase burials with the highest NAT values	342
5.52. Bar chart comparing percentages of burials with grave goods in public and nonpublic contexts by phase	344
6.1. Pee Dee vessel types	356
6.2. Bar charts showing percentages of vessels with interior use-alterations (deep and light pitting, deep and light scratching) by vessel type	357
6.3. Bar charts showing percentages of vessels with exterior use-alterations (horizontal pattern of thermal alteration and sooting) by vessel type	358
6.4. Carinated bowls	360
6.5. Histogram of carinated bowls by diameter (cm)	360
6.6. Open bowls	361
6.7. Histogram of open bowls by diameter (cm)	361
6.8. Open bowl with pedestalled base	362
6.9. Histogram of restricted bowls by diameter (cm)	365

6.10. Open jars	367
6.11. Histogram of open jars by diameter (cm)	367
6.12. Restricted jars	369
6.13. Histogram of restricted jars by diameter (cm)	369
6.14. Boxplots comparing rim diameter by vessel class between fill and burial association contexts	378
6.15. Bar charts showing percentages of vessel categories by context (including burial associations)	379
6.16. Bar charts showing percentages of vessel categories by context (excluding burial associations)	381
6.17. Boxplot comparing bowl rim diameters (cm) among contexts (including burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden	385
6.18. Boxplot comparing bowl rim diameters (cm) among contexts (excluding burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden	385
6.19. Boxplot comparing jar rim diameters (cm) among contexts (including burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, Medium Rectangular Structures, and the riverbank midden	386
6.20. Boxplot comparing jar rim diameters (cm) among contexts (excluding burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, Medium Rectangular Structures, and the riverbank midden	386
6.21. Boxplot comparing jar rim diameters (cm) among contexts (including burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden	388

6.22. Boxplot comparing jar rim diameters (cm) among contexts (excluding burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden	388
6.23. Histograms of jar diameter (cm) by context (including burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden	389
6.24. Histograms of jar diameter (cm) by context (excluding burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden	389

Chapter 1: Background

The late prehistoric period saw the development of numerous Mississippian societies across the southeastern United States. The Mississippian period began at approximately A.D. 1000¹ and lasted until the period of European contact (Smith 1986; Steponaitis 1986). The Spanish contacted Mississippian societies across the Southeast during the sixteenth century, and the French interacted with them in the Lower Mississippi Valley through the beginning of the eighteenth century (Clayton et al. 1993; Hudson 1990; Swanton 1911). These societies existed from Illinois to Florida and as far west as eastern Oklahoma (Griffin 1967:190). Clearly defining Mississippian culture has been a difficult proposition because of the great deal of variation that the concept subsumes (see Griffin 1985a). Generally, these societies have been associated with relatively large populations, the increased importance of maize as a dietary staple, the construction of permanent towns and ceremonial centers, extensive trade networks, the appearance and elaboration of village-level positions of authority, and the placement of public buildings on earthen platform mounds (Griffin 1985a:63; Smith 1986:56-63; Steponaitis 1986:388-391). The appearance of Mississippian platform mounds often is seen as indicating that the communities who built them possessed certain social and political attributes that communities without mounds lacked. At the regional scale, sites with mounds generally are seen as social and political centers that integrated contemporaneous nonmound sites into settlement systems. At the community level, mounds are often seen as marking both increased vertical social differentiation and

centralization of political power (Anderson 1994:80; Hally 1999; Lewis and Stout 1998:231-232; Lindauer and Blitz 1997; Milner and Schroeder 1999:96; Muller 1997:275-276; Steponaitis 1978, 1986:389-392).

In the research presented here, some of the community-level assumptions attributed to the appearance of Mississippian mounds are tested against the archaeological record of the Town Creek site—the remains of a town located on the northeastern edge of the Mississippian culture area (Figure 1.1). In particular, the archaeological record of Town Creek is used to test the idea that the appearance of Mississippian platform mounds was accompanied by the centralization of political authority in the hands of a powerful chief. Town Creek is appropriate as a case study for examining the evolution of Mississippian leadership as it relates to the appearance of platform mounds because the construction of a mound after the site's initial occupation allows the comparison of deposits that predate and postdate mound construction.

MISSISSIPPIAN ARCHITECTURE AND LEADERSHIP

Platform mounds have been a part of Southeastern Native American communities since at least 100 B.C. (Jeffries 1994; Knight 1990; Lindauer and Blitz 1997:172). They were associated with a number of different activities and they were built by societies that were economically, politically, and socially organized in very different ways (Blitz 1993a:7; Lindauer and Blitz 1997). One significant development occurred around A.D. 400 when leaders in some communities began to place their houses on top of earthen mounds—an act that has been interpreted as an attempt to legitimize personal authority by a community leader through the appropriation of a powerful, traditional, community-oriented symbol

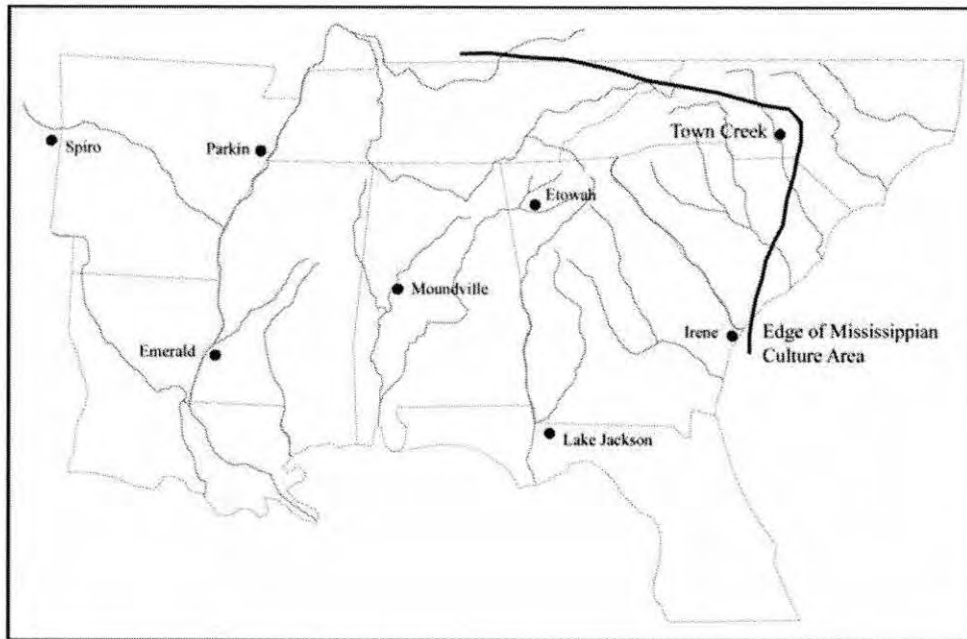


Figure 1.1. The location of Town Creek in the Mississippian culture area.

(Milanich et al. 1997:118; Steponaitis 1986:386). These early acts were followed in subsequent centuries by three major changes in political leadership which are thought to reflect the institutionalization and centralization of political power within Mississippian chiefly authority. First, while leadership positions in Woodland societies probably were attained through achievement (Steponaitis 1986:383), theoretically being open to individuals from any family, Mississippian leaders increasingly were drawn from high-ranking families in the community (Blitz 1993a:12; Knight 1990:17). Second, unlike Woodland societies in which it seems that charismatic individuals built and maintained a group of followers, Mississippian societies had offices of leadership that existed independently of any one individual (Hally 1996; Scarry 1996:4; Steponaitis 1986:983). Third, while earlier societies are thought to have made political decisions through councils in which a number of community leaders reached consensus, community-level decisions in Mississippian societies seem to have been made by a much smaller subset of community members; that is, political power became centralized (Pauketat 1994:168; Scarry 1996:11; Steponaitis 1986:388; Wesson 1998:114; but see Blitz 1993a:7 and Muller 1997:83).

It has been proposed that changes in leadership that occurred during the Mississippian period—namely the centralization of political power—are reflected in concomitant changes in public architecture (Emerson 1997:250; Lewis and Stout 1998:231). Within the regional variant of Mississippian culture known as South Appalachian Mississippian (Ferguson 1971), platform mounds at a number of sites were preceded by a distinctive type of building called an earthlodge—a structure with earth-embanked walls and an entrance indicated by short, parallel wall trenches (Crouch 1974; Rudolph 1984). The best-known example is the building found beneath Mound D at Ocmulgee in Georgia (Fairbanks 1946; Larson

1994:108-110). This was a circular structure with a central hearth and a bench with individual seats along its wall. Based on analogy with the council houses of historic Indians (see Hudson 1976:218-226) and perhaps using the Ocmulgee structure as a prototype, earthlodges in the Southeast have been interpreted as places where a council of community leaders came together to make decisions based on consensus (Anderson 1994:120, 1999:220; DePratter 1983:207-208; Wesson 1998:109).

In contrast to the more inclusive function proposed for pre mound earthlodges, it has been argued that access to the buildings on top of Mississippian platform mounds was limited to a much smaller subset of the community (Anderson 1994:119; Blitz 1993a:92; Brown 1997:479; but see Blitz 1993a:184). Among historically observed Mississippian groups, mound summits contained the residences and ritual spaces of the social and political elite (i.e., chiefs and their families) (Lewis et al. 1998:17; Steponaitis 1986:390). In contrast, nonelites had limited access—both physically and visually—to mound summits (Holley 1999:30) or were excluded outright (Kenton 1927:427; McWilliams 1988:92). A compelling argument has been made that mounds were the seats and symbols of political power within Mississippian societies (Hally 1996, 1999). If this was the case and if ground-level earthlodges were more accessible than mound-summit structures, then access to leaders and leadership may have decreased through time. Thus, the sequence of change for public architecture during the Mississippian period may reflect a centralization of political power through time (Anderson 1994:119-120, 1999:220; DePratter 1983:207-208; Rudolph 1984:40).

The idea that changes in public architecture reflect society-wide changes in relationships among individuals and groups seems plausible (see Adler and Wilshusen

1990:141; McGuire and Schiffer 1983:283). However, this relationship has not been extensively tested against the Mississippian archaeological record. While changes in public architecture have been documented at numerous Mississippian sites, our ability to explore concomitant social and political change has been hindered in many cases by the limited excavation of contemporaneous contexts within the same community. Excavations at the Town Creek archaeological site have shown that the public architecture there follows the earthlodge-to-platform mound sequence that is well known across the South Appalachian subarea of the Mississippian world (Coe 1995:65-82; Ward and Davis 1999:127). Work at Town Creek also has documented a majority of the site's nonmound architecture. The clear changes in public architecture coupled with the extensive exposure of the site's domestic sphere make Town Creek an excellent case study for examining the relationship among changes in public architecture and leadership within a Mississippian society.

CHIEFDOMS AND CHIEFS

It is clear from the ethnohistoric and archaeological record that chiefdom-level societies existed across the Southeast from the tenth through eighteenth centuries (Blitz 1993a:6; Knight 1990:1; Steponaitis 1986:391). It is generally accepted that Southeastern chiefdoms consisted of multiple settlements that were integrated through shared social and political institutions (Blitz 1999:579). It is also accepted that there was an ascriptive element to the filling of leadership positions within these societies (Blitz 1999:579; Knight 1990:19). Beyond these two general points of agreement, however, there currently is a great deal of debate about the nature of Mississippian societies. The prevalent interpretation has been that the relationships among settlements within Southeastern chiefdoms were hierarchical

(Anderson 1994:118; Emerson 1997; Peebles and Kus 1977:440; Steponaitis 1978:420; Smith 1978:495), but explanations that recognize the possibility that individual settlements were more autonomous recently have been offered (Blitz 1999; Maxham 2004). Chiefs in Southeastern societies have been viewed as powerful individuals with a great deal of economic and political control (Emerson 1997:249-260; Pauketat 1992:40, 1994:168; Welch 1991:180). However, alternative interpretations significantly downsize their control over people and resources (Blitz 1993:184; Cobb 1989:89, 2000:191; Muller 1997:56; Wilson 2001:125).

There are a number of different ways to investigate Mississippian chiefdoms. The approach that was followed when the chiefdom concept was first introduced to anthropology was one in which ethnography and ethnohistory were used to construct the attributes that constituted a model chiefdom (see Carneiro 1981:38). Within this method, the documentation of one or more of these attributes archaeologically is then used to infer the presence of the others, even if these attributes are not demonstrated (see Knight 1990:2). This is the approach that was used in some of the initial studies of chiefdoms in the Southeast (see Knight 1990:2) and it has recently been used to propose organizational variation among chiefdoms worldwide (e.g., Blanton et al. 1996). For two reasons, a different approach will be used in this study of Town Creek. First, since there is disagreement regarding the nature of Mississippian chiefdoms, it will be better to stay as close to the Town Creek data as possible rather than to base this research on debatable extrapolations. Second, a goal of this research is to document and investigate what happened at Town Creek during the Mississippian period, and the assumptions necessary for a more deductive approach might obscure the patterns particular to Town Creek. This is because any chiefdom model would

be biased towards the best-documented archaeological and ethnohistoric examples in the Southeast, which would be Cahokia and Moundville for the former and the Natchez for the latter. There undoubtedly was a great deal of variation among the societies grouped under the Mississippian rubric, which covers over 800 years and virtually all of southeastern North America. Being open to the possibility of variation is especially important in the case of Town Creek, a community that was located on the northeastern edge of the Mississippian world.

The terms “chiefdom” and “chief” will for the most part be conspicuously absent in this dissertation. I am neither opposed to these terms nor prepared to propose something better or different. These concepts are useful when clearly defined and consistently applied. Indeed, in all likelihood, the Town Creek site represents the political and ceremonial center of a simple chiefdom (see Blitz 1993a:12-13). For my purposes, though, the terms “chiefdom” and “chief” are not critical and may actually be impediments because of their associated intellectual baggage. Chiefdoms, by definition, are regional entities consisting of multiple communities under the political authority of a chief (Carniero 1981:45; Earle 1991:1). The data presented here regarding social and political change all come from a single site, Town Creek. Although it would be fascinating to explore regional-level data for the Pee Dee River Valley in the vicinity of Town Creek, this study has not been conducted at this time. Thus, it would be misleading and of little interpretive value to talk about “the Town Creek chiefdom” when such an entity has not been defined (see Flannery 1999:45). I will instead be talking about the Town Creek community. The individuals that occupied preeminent political positions at Town Creek will be referred to as community leaders, although a number of expressions would have been appropriate. The term “chief” has been

avoided partly because it has come to be associated with ideas of political and economic power as well as manipulative and personally aggrandizing behavior (see Earle 1997). While these attributes and activities may have been a necessary part of political leadership in some Mississippian societies, they certainly did not exist to the same degree in them all.

SOUTH APPALACHIAN MISSISSIPPIAN

The rubric of Mississippian culture encompasses a great deal of variation regarding material culture, physiography, settlement patterns, and political organization (Griffin 1967:190; Smith 1978). Regional distinctions within the Mississippian world have been based primarily on ceramics. A South Appalachian province (Figure 1.2) has been recognized as a large-scale variant within the Mississippian area based on the occurrence of a predominantly complicated-stamped and non-shell-tempered ceramic tradition (Caldwell 1958:34; Ferguson 1971:7-8; Griffin 1967:190). The spatial extent of the South Appalachian Mississippian tradition is essentially the eastern half of the Southeast, containing Georgia, South Carolina and contiguous portions of Alabama, Florida, North Carolina, and Tennessee (Ferguson 1971:7). The co-occurrence at Town Creek of a predominantly complicated-stamped ceramic tradition and a substructural platform mound places it firmly within the South Appalachian Mississippian tradition (see Ferguson 1971:261).

The South Appalachian Mississippian tradition has been divided into three broad cultural units—Etowah, Savannah, and Lamar—that cross-cut the numerous phases that constitute more localized cultural sequences. Although primarily based on distinctions initially recognized in north Georgia (Ferguson 1971:254; Wauchope 1966), these three regional cultural units represent regularities in local ceramic sequences that occur across the

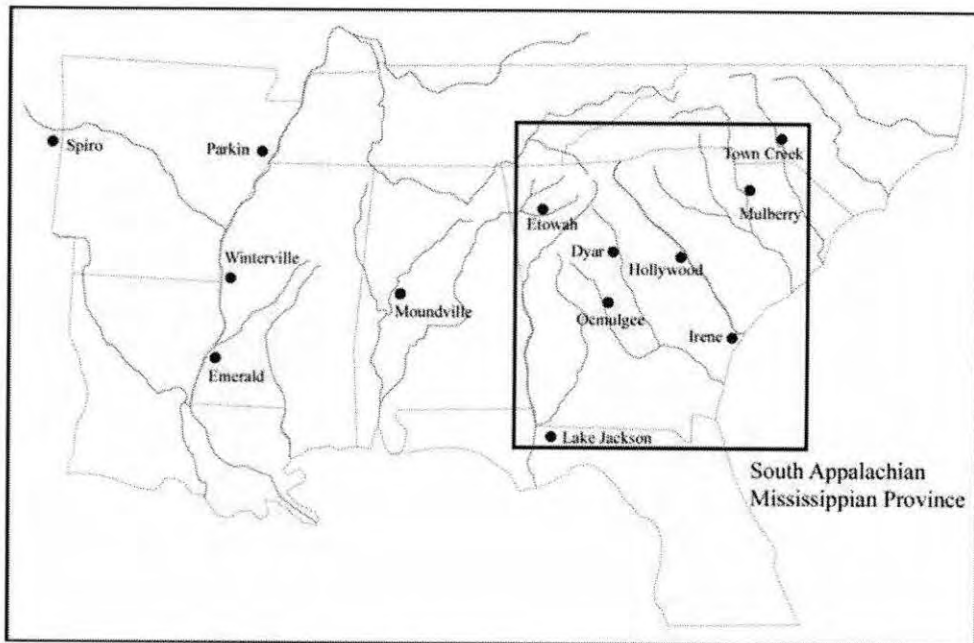


Figure 1.2. The South Appalachian Mississippian culture area (based on Ferguson 1971:Map 1).

entire South Appalachian Mississippian area (King 2003:29). Etowah culture represents the Early Mississippian period (A.D. 1000-1200) (Hally and Langford 1988:25 and 44). Etowah pottery predominantly consists of relatively fine-lined complicated stamping with rectilinear motifs (Hally and Langford 1988:51; King 2003:30). It is with the Etowah culture in the Georgia Piedmont that major political and ceremonial centers were formed (Hally and Rudolph 1986:37). Public architecture at these Etowah centers includes ground-level earthlodges (Ferguson 1971:255). Savannah culture dates to the Middle Mississippian period (A.D. 1200-1350) (Hally and Rudolph 1986:51). Savannah pottery is characterized by complicated stamping with grooves that are relatively wider than Etowah complicated stamping, a preponderance of curvilinear motifs, and jar rims that are decorated with various appliques (Anderson 1994:362; Rudolph and Hally 1985:269). It was with the Savannah culture that public buildings changed from ground-surface earthlodges to structures on platform mounds (Hally and Rudolph 1986:59). Lamar is the Late Mississippian period (A.D. 1350-1550) culture that extended into the Early Historic period (Hally 1994; Hally and Langford 1988:67). Lamar pottery is generally associated with complicated stamping exhibiting broad grooves, incising, and the frequent decoration of jar rims (Hally 1994:147).

The South Appalachian Mississippian construct contains a great deal of ceramic variation, and a number of local ceramic series and sequences have been defined within this broader tradition (Hally 1994:Figure 14.1; Williams and Shapiro 1990:30-77). The Pee Dee series, which includes the Mississippian pottery found at Town Creek and surrounding sites, is one of these local variants. The development of the Pee Dee concept, both as an archaeological culture and a ceramic series, has been closely tied to the work of Joffre Coe. Coe (1952:308-309) gave the first definition of the Pee Dee focus based on his excavations at

Town Creek, and he included a brief discussion of the Pee Dee pottery series in his landmark publication *Formative Cultures of the Carolina Piedmont* (Coe 1964:33). Later, J. Jefferson Reid, one of Coe's students, produced the first detailed description of Pee Dee pottery from Town Creek (Reid 1967).

The geographic extent of Pee Dee culture (Figure 1.3), indicated by sites with a predominance of pottery from the Pee Dee series, as it is currently understood includes portions of south-central North Carolina and northeastern South Carolina (Anderson 1982:313; Judge 2003). Several Pee Dee sites in the North Carolina Piedmont in the vicinity of Town Creek have been identified and tested (Mountjoy 1989; Oliver 1992). A number of Pee Dee sites also have been investigated to the south in the Wateree River valley of South Carolina (Cable n.d.; Kelly 1974; Stuart 1975). Further south, Pee Dee sites have been excavated along the South Carolina coast north of Charleston (South 2002; Trinkley 1980). Temporally, a Pee Dee ceramic sequence established for the Wateree Valley spans the period from A.D. 1200 to 1675 (DePratter and Judge 1990:56-58). Stanley South and Leland Ferguson have related Pee Dee pottery to a ceramic construct they refer to as Chicora (South 2002:154; Ferguson 1974 in South 2002), which South (2002:158) has attributed to the period from A.D. 1000 to 1600.

THE TOWN CREEK SITE

Town Creek is located in the southern Piedmont of North Carolina, opposite a bend of the Little River near the town of Mt. Gilead in Montgomery County. Town Creek has figured prominently in North Carolina archaeology since the late 1930s. According to Ward and Davis (1999:131):

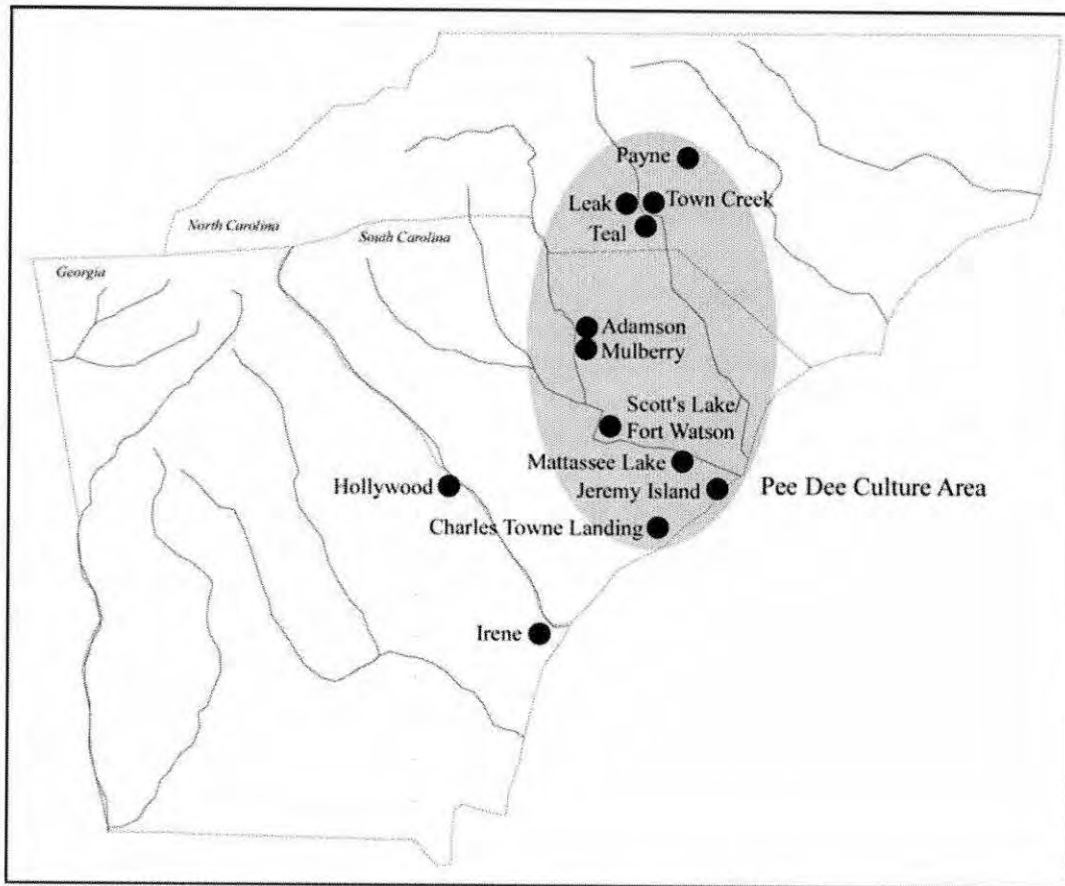


Figure 1.3. Pee Dee culture and related sites.

The Town Creek site, like a powerful magnet, has drawn the attention of archaeologists for over sixty years. With only mild hyperbole, it could be said that the mound on the banks of the Little River has been the center of the archaeological universe in the southern North Carolina Piedmont.

Town Creek is prominent partly because fieldwork took place there for a long time, intermittently for approximately 50 years. These long-term excavations produced a valuable research collection and made Town Creek one of the most extensively excavated sites in the region. Town Creek is also important because it became a state historic site in 1955, the only one in North Carolina devoted exclusively to the interpretation of Native American culture (Ward and Davis 1999:123). Today, Town Creek Indian Mound State Historic Site consists of a museum and an area for living history displays, as well as archaeologically based reconstructions of the mound, a palisade, an enclosure, and three structures (see Coe 1995:29-41; Carnes-McNaughton 2002; South 1995).

Fieldwork

In this section, a brief overview of the excavations that took place at Town Creek is presented. Readers interested in a more detailed account should consult Coe's book *Town Creek Indian Mound: A Native American Legacy* (1995), and readers interested in the history of professional archaeology in the North Carolina piedmont should look to Ward and Davis's book *Time before History: The Archaeology of North Carolina* (1999).

Fieldwork began at Town Creek under the direction of Coe in 1937. It continued until 1942 when a hiatus occurred because of World War II (Griffin 1985b:297).

Excavations resumed in 1949 and continued intermittently until 1983. Coe supervised fieldwork in 1937 and 1940. Excavations at other times were directed by a series of on-site

supervisors while Coe served as overall director from the Research Laboratories of Anthropology² (RLA) at the University of North Carolina (UNC) in Chapel Hill (Coe 1995:18). A number of these on-site supervisors went on to distinguished careers in Southeastern archaeology after their time at Town Creek. They include Roy Dickens, Leland Ferguson, Bennie Keel, Stanley South, and David Phelps.

In 1937, Coe, then an undergraduate at UNC, stopped taking classes in order to direct the first excavations at Town Creek (Ward and Davis 1999:122). The site was then called the Frutchey Mound, after the landowner who had recently donated the mound and some adjoining land to the state (Coe 1995:12). The excavation project was approved to use Works Progress Administration (WPA) labor (Figures 1.4 and 1.5) (see Coe 1940), but eligible individuals not assigned to other projects were scarce in Montgomery county (Coe 1995:14). Thus, the crew sizes at Town Creek were relatively small, unlike many other Depression-era excavation projects that received labor from federal relief programs (see Ferguson 1995:xiii; Lyon 1996).

As was the practice at the time, the mound area was given a different site number than the remainder of the site when fieldwork began in 1937. The area that encompassed the mound was designated as Mg^o2 while the rest of the site was called Mg^v3. The Mg2 grid (Figure 1.6) consisted of 170 excavation units encompassing a 130-x-110-ft area while the Mg3 grid (Figure 1.7) consisted of 822 units that covered a main area approximately 200-x-400 ft in extent but with several rows of units extending well away from this core.³ The two grids had different baselines and were operated independently of each other. The Mg2 grid was oriented to parallel the mound while the Mg3 grid was oriented to the cardinal directions. The fact that the two grids were independent of each other means that there are a



Figure 1.4. Early fieldwork at Town Creek, 1942 (RLA negative 1176).



Figure 1.5. Early fieldwork at Town Creek, 1941 (RLA negative 858).

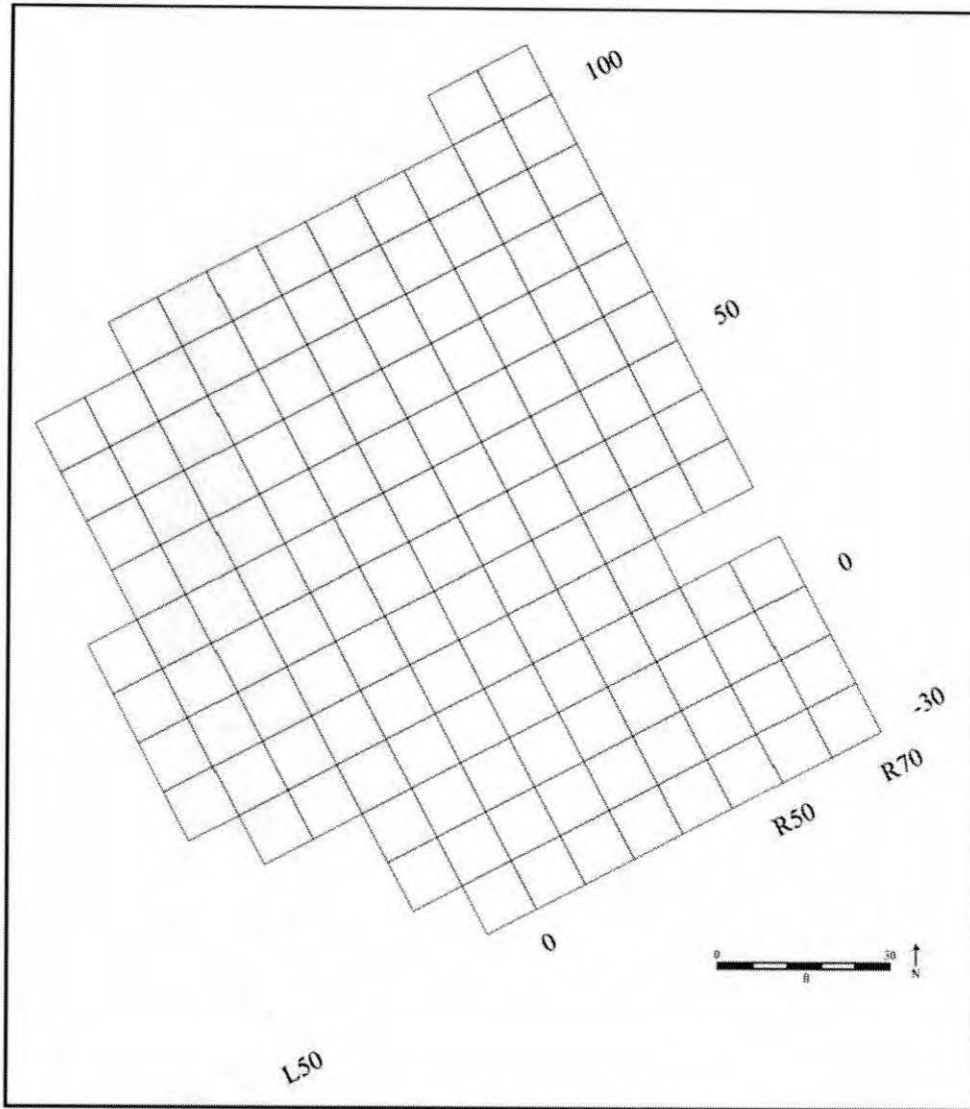


Figure 1.6. Mg2 excavation grid.

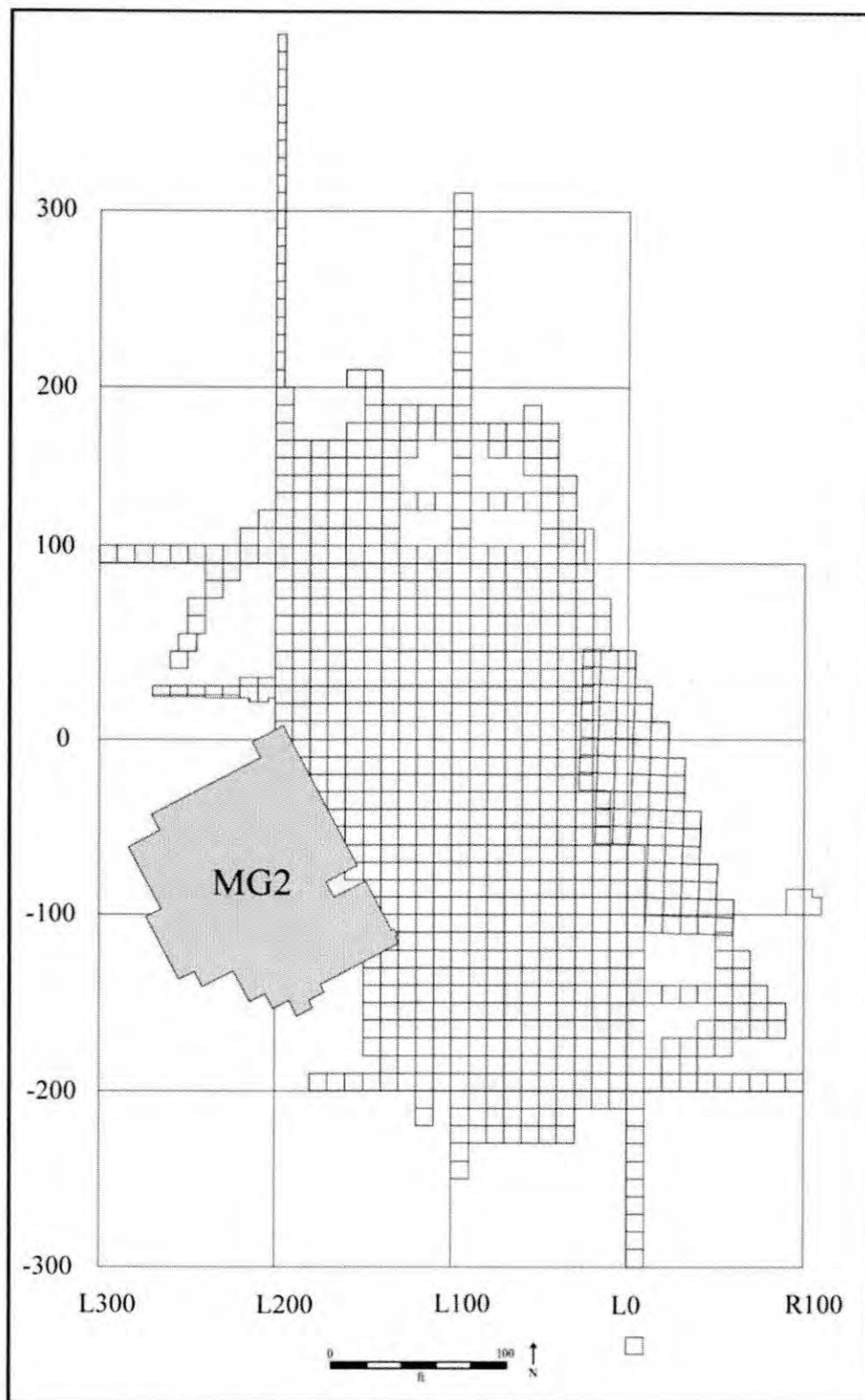


Figure 1.7. Mg3 excavation grid.

number of cases in which two excavation units have the same grid designation with one being from Mg2 and the other from Mg3. Additionally, features and burials from Mg2 and Mg3 were numbered independently. Thus, in a number of cases two features or burials were given the same number, one from Mg2 and the other from Mg3.

The first field seasons at Town Creek concentrated on the mound and the area immediately surrounding it. In 1937, the mound was about 12-ft high, measuring about 100 ft north-south and 90 ft east-west. Although the core of the mound was relatively intact, relic collectors in the late 1920s had severely damaged its eastern part (Figures 1.8 and 1.9). One looting episode included the use of mules and a drag pan to remove the eastern portion of the mound down to subsoil (Coe 1995:8). Much of the 1937 field season was spent cleaning up this earlier damage and recording the stratigraphy of the exposed face of the mound (Coe 1995:15). Excavations into the mound began with four 5-x-10-ft exploratory trenches. These trenches were located at the center of each side of the mound at its base (Coe 1995:62). After the trenches, 10-ft squares were the units used for most of the Mg2 and Mg3 excavations (Figure 1.10). The fieldnotes and provenience information indicate that the excavators were primarily using the stratigraphy of the mound, rather than arbitrary levels, for their vertical control (Figure 1.11). Thus, most of the artifacts from the mound can be attributed to stratigraphic layers documented in the field drawings. Also, the fieldnotes indicate that the soil from the mound was frequently screened (Figure 1.12). This was especially the case with the upper portions of the mound where the excavators were searching for glass beads (Coe 1995:84). It is clear from the notes, however, that not all contexts from the mound were screened, and it is unclear which ones were treated this way and which ones were not. Most of the mound was excavated prior to 1940. The only

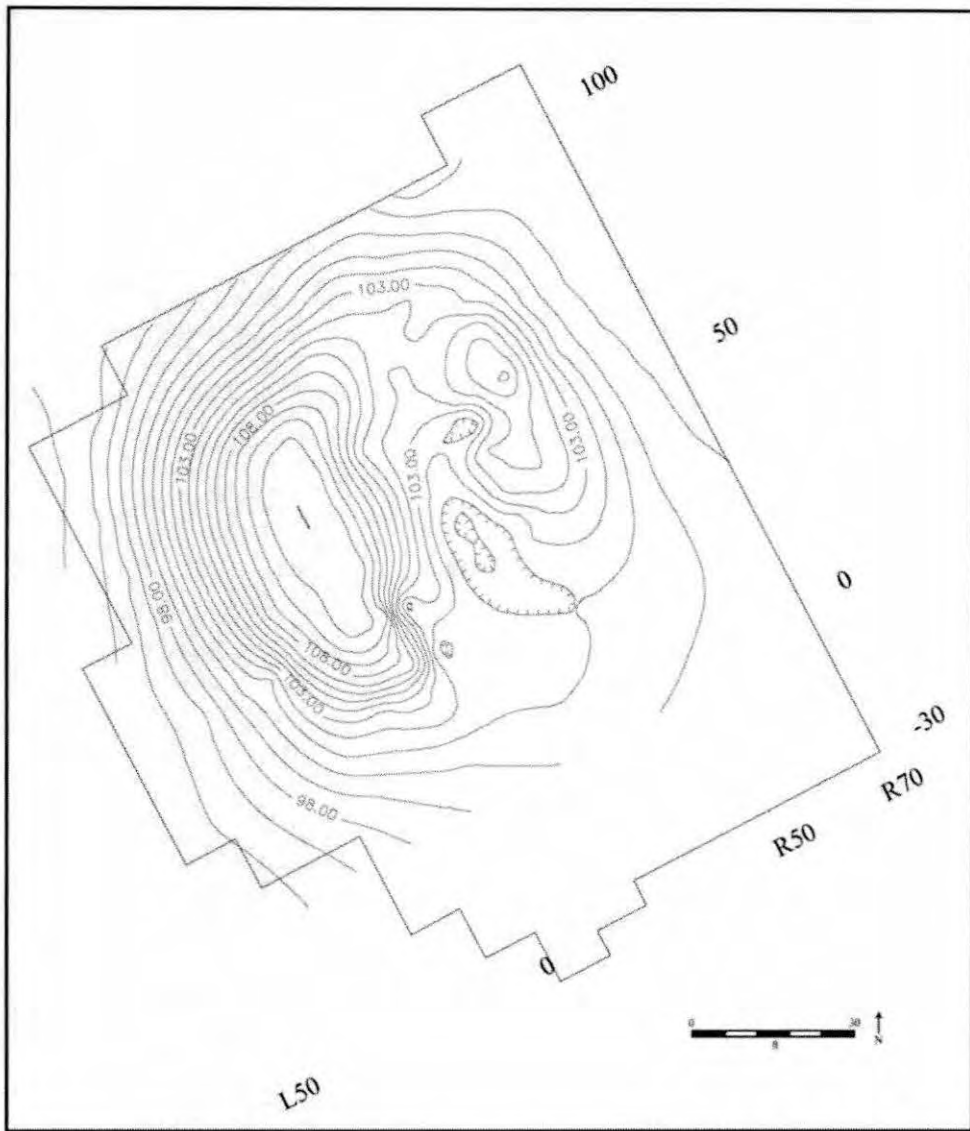


Figure 1.8. Topographic map of the Town Creek mound based on Coe's 1937 data.



Figure 1.9. 1937 photograph showing damage to the eastern part of the Town Creek mound (RLA negative X2349).



Figure 1.10. 1940 photograph of mound excavations (note the standing profiles for recording stratigraphy on the left side) (RLA negative 720).



Figure 1.11. Mound excavated to the base of the first habitation level, 1940 (note the pedestal near the center of the frame that contains Feature 57/Mg2 which was associated with the second habitation level) (RLA negative 725).



Figure 1.12. 1940 photograph of Town Creek mound excavation (note the screen on the mound summit) (RLA negative 734).

exception was a 40-x-70-ft block near the center of the mound that was left unexcavated. This block remains intact underneath the reconstructed mound.

In the parts of the Town Creek site away from the mound, deposits consisted primarily of a layer of plowed soil above the subsoil with archaeological features visible in the latter. In a few parts of the site, an undisturbed midden was encountered between the plowzone and the subsoil. The same excavation procedure was followed for virtually all nonmound excavation units (see Coe 1995:52; Reid 1985:25). First, the plowzone was excavated by hand and screened (Figure 1.13). Next, subsoil features were documented, which involved making traditional measured drawings and photographing each unit from a specially constructed tower (Figure 1.14). This tower ensured that similar photographs were taken of each unit with the intention that these photographs would one day be used to construct a photographic mosaic of the archaeological deposits across the entire site (Boudreaux and Davis 2002; Coe 1995:49-60; Dickens 1968). The next step for many units was the excavation of subsoil features followed by post-excavation documentation, which included more maps and photographs. A number of units were backfilled after they had been photographed and subsoil features were not excavated. The purpose of this was to document the location of archaeological features at Town Creek while preserving them for future research (Ferguson 1995:xvi). Of the 832 nonmound excavation units at Town Creek, 424 of them, or approximately 44%, still contain five or more unexcavated features (Figure 1.15). When Mg2 is considered as well, the percentage of units with five or more unexcavated features is also about 44% (424 of 972 units). Thus, large portions of the Town Creek site were not excavated beyond the base of the plowzone and thousands of known archaeological



Figure 1.13. Excavating and screening plowed soil in a nonmound unit, 1957 (note the photographic tower in the background) (RLA negative 835).

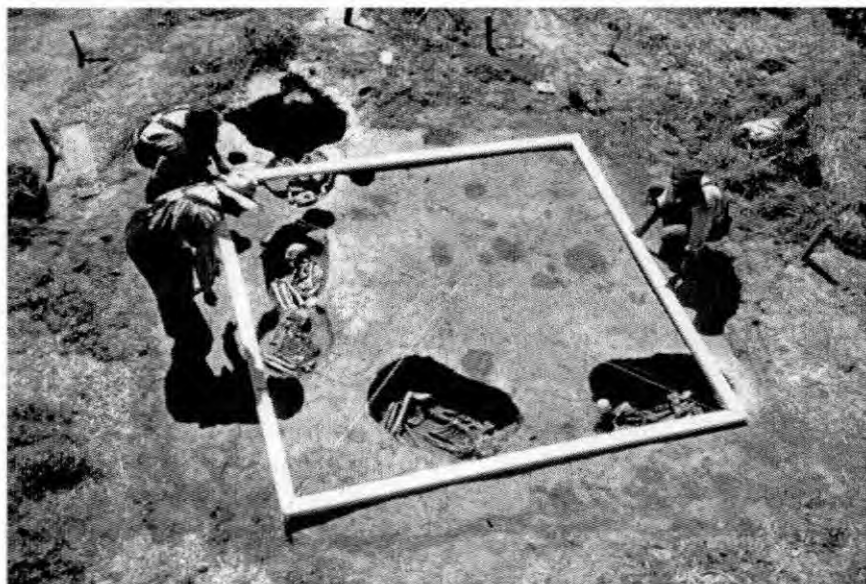


Figure 1.14. Workers positioning a mapping frame to record excavated features in Sq. -90R30/Mg3, 1941 (RLA negative 456).

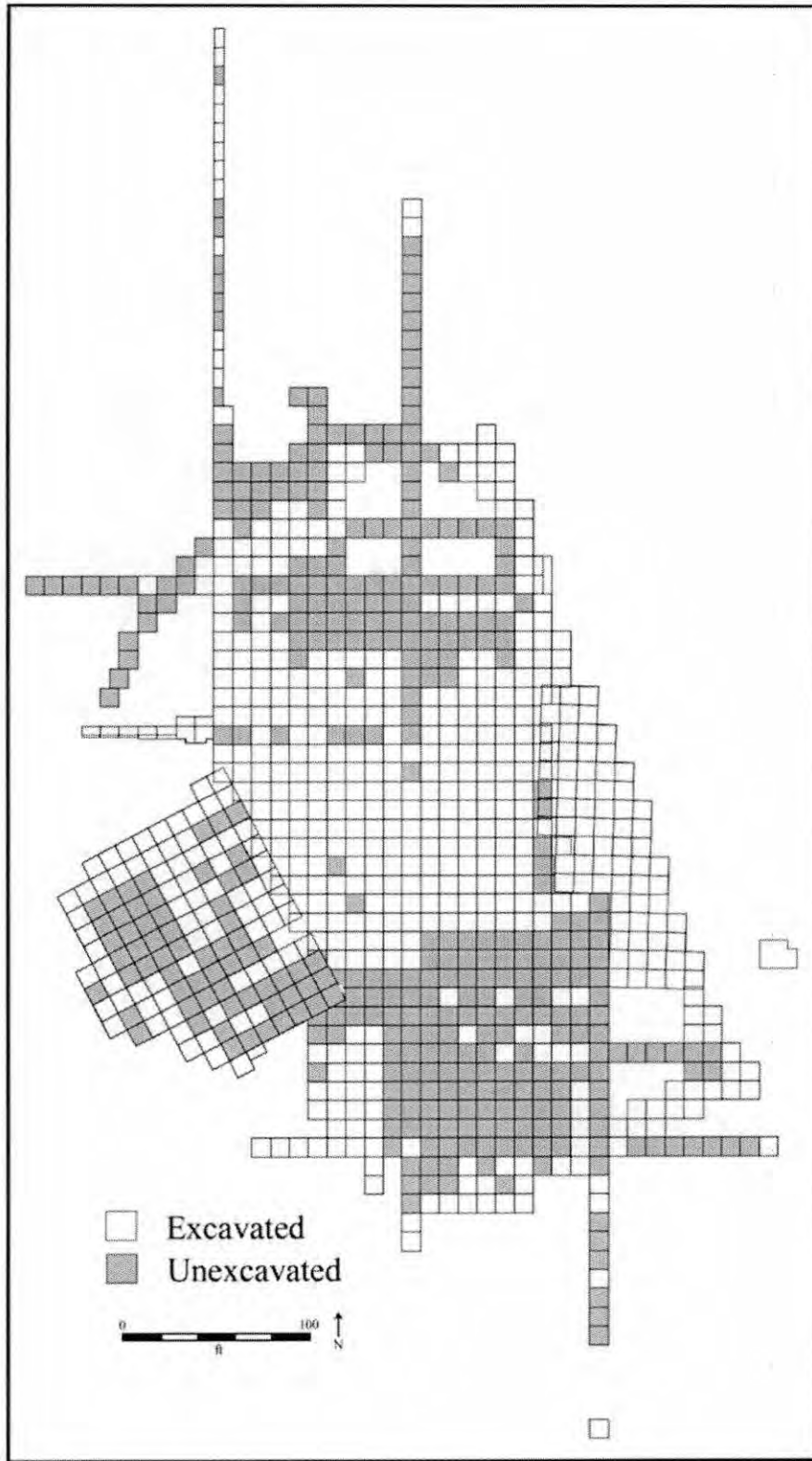


Figure 1.15. Map showing units that contain five or more unexcavated features.

features are preserved at the site. According to Reid (1985:25), Town Creek “exists today as an ideal laboratory for exploring a variety of research questions.”

One area of the site that was excavated differently—through a combination of arbitrary and natural levels—was a deep, stratified midden deposit located next to the Little River. The site sits on a terrace above the Little River, and this stratified midden was located along the slope of this terrace on the west bank of the river. Here, a block of 17 excavation units was placed along the terrace slope. These excavations encountered stratified deposits approximately 7 ft in depth. Several layers in these deposits were rich middens, one of which was approximately 3 ft in thickness. These middens contained high densities of artifacts, including a large assemblage of ceramic vessel portions. The riverbank excavations began under Barton Wright in the early 1950s and were completed under the direction of Stanley South in the late 1950s.

Publications and Research

The first description of Town Creek and its material culture was presented by Coe in his contribution to the 1952 volume, *Archeology of Eastern United States* edited by James B. Griffin. In his chapter, Coe used the materials from Town Creek to define the Pee Dee focus. The interpretation that he offered then was that Town Creek represented a village occupied by a group of people who had moved into the area from the south during the mid-sixteenth century (Coe 1952). Pee Dee culture was so different from the others that had been identified in the area that Coe was convinced it represented the movement of people from the coast into the North Carolina Piedmont and the subsequent displacement of indigenous groups. According to Coe (1952:308):

One of the best archeological records of the movement of a people in the southeast is that of the Pee Dee Culture. It moved into the upper Pee Dee River Valley with household and baggage about the middle of the Sixteenth Century, forcing the Uwharrie descendants into the hills of the Piedmont.

The next works to focus on Town Creek and Pee Dee culture were by two of Coe's graduate students at UNC. The first of these was J. Jefferson Reid's 1967 thesis which presented an analysis of the pottery from the mound at Town Creek. Reid provided a detailed description of Pee Dee pottery and documented differences in the assemblages from superimposed strata. He also discussed several radiocarbon dates associated with submound and mound-summit contexts. In this thesis and in a published article, Reid (1965, 1967) noted the similarities among the pottery assemblages from Town Creek and the Irene and Hollywood sites along the Savannah River in Georgia. Based on these similarities, Reid (1967:65) proposed that these sites had been related prehistorically through an interaction sphere that he called the Town Creek-Irene axis. Reid (1985) also used pottery to examine the formation processes that affected the strata of the mound at Town Creek. Billy Oliver's 1992 dissertation was on the Leak and Teal sites, two Pee Dee sites located near Town Creek. Oliver's dissertation documented his excavations at Leak and Teal, and presented a number of radiocarbon dates from these sites (1992:Figure 40). He (Oliver 1992:240-253) also established a chronological sequence consisting of three phases for Pee Dee culture in the Town Creek vicinity.

The culmination of Coe's work at Town Creek was his 1995 book *Town Creek Indian Mound*. This volume presents a detailed account of the site's modern history, emphasizing the processes and people that have shaped archaeological research there. This book contains Coe's descriptions of the excavation and photographic mosaic procedures. It also includes a

chapter by Coe on ceramics as well as contributed chapters about Town Creek's stone tools (Oliver 1995), faunal remains (Wilson and Hogue 1995), skeletal remains (Burke 1995), and paleoethnobotany (Trinkley 1995). Coe's interpretations of the archaeological record at Town Creek are presented throughout the volume. Town Creek was seen as being primarily ceremonial in nature with a small resident population (see also Oliver 1992:60). Town Creek was interpreted as the place where surrounding communities brought some of their dead to be buried, and the circular structures at the site were interpreted as mortuary buildings used for this purpose⁴ (Coe 1995:265-268; Oliver 1992:250). As was the case in his earlier work, though, Coe still saw Town Creek as the product of a group intrusive to the Piedmont, and the Pee Dee occupation of Town Creek was seen as having been relatively short in duration (Coe 1995:89-90; Oliver 1992:240). Although he documented in great detail a sequence of architectural changes associated with the mound (Coe 1995:65-82), Coe saw the Pee Dee deposits at the site as dating to the same period (1995:Figure 5.11).

Several works have been based on the human skeletal remains from Town Creek. The first of these was the inventory of remains and associated artifacts compiled in response to the Native American Graves Protection and Repatriation Act (NAGPRA) (Davis et al. 1996). This project involved the analysis of all skeletal remains from Town Creek by Patricia M. Lambert as well as the documentation of all associated artifacts. A dissertation in 2001 by Elizabeth Driscoll approached the human skeletal remains from a bioarchaeological perspective. Driscoll was concerned with possible relationships between status, gender, and health, and spatial patterning in skeletal and artifactual data. Among other things, her research identified the restricted distribution of certain artifacts to burials in the mound and in a special area across the plaza (Driscoll 2002:22-23).

RESEARCH OBJECTIVES

While research has been conducted in the Town Creek area for decades, there is still a great deal that we do not know about the site itself. The research presented here has four major objectives. First, it refines the ceramic chronology that exists for the Town Creek region. Oliver has proposed a three phase cultural sequence for Town Creek and its vicinity based on his excavations at the Leak and Teal sites. The research presented here adds to his chronology data and radiocarbon dates from the Payne site⁵ and the Town Creek site itself. As a part of the refining process, Town Creek is placed in a regional context by relating its sequence to those recently established for surrounding areas, particularly those to the south of Town Creek (Hally 1994:Table 14.1; South 2002:226-230; Williams and Shapiro 1990:39-77). Second, pottery is used to systematically date contexts at Town Creek. Dating contexts from the entire site is important because while we currently have a good sense of how the mound area changed through time because of Coe's (1995) and Reid's (1967, 1985) work, we do not know how these changes relate to any other part of the site. Third, the site's occupation is divided into smaller spatial (e.g., public and domestic contexts) and temporal (e.g., phases and occupations) units. Once these units are established, the fourth objective is to use mortuary and ceramic vessel data to explore the nature of leadership at Town Creek and how changes in leadership might have corresponded to the appearance of the platform mound. Mortuary data are used to indicate who leaders were and how their status was marked. Vessel size and functional data are used to evaluate the assumption of political centralization by indicating the size of the social groups that had access to public buildings, the loci of political decision making.

While these objectives are aimed at addressing how leadership changed through time at Town Creek, they also are important because even though the density of features and artifacts as well as the degree of change documented in the mound suggests that a great deal of time is represented in the Mississippian occupation of Town Creek, current interpretations view the site's architecture as virtually dating to the same period (Coe 1995:Figure 5.11). Furthermore, this lack of a grasp on the temporal dimension has forced other researchers to treat the pottery (Anderson 1989:105) and the burials (Driscoll 2001, 2002) from Town Creek largely as undifferentiated data sets when surely a great deal of time is represented within them.

Endnotes to Chapter 1

1. Unless indicated (e.g., cal. A.D. 1000-1200), all dates are based on uncorrected radiocarbon dates.
2. Throughout the time of the Town Creek excavations, the labs were known as the Research Laboratories of Anthropology. The name was changed in 1997 to the Research Laboratories of Archaeology. Either way, the RLA acronym is appropriate.
3. The excavations at Town Creek followed a grid consisting of 10- \times -10-ft squares (Coe 1995:46-48). Coe had attended the University of Chicago field school at Kincaid in 1935 and had contacted Glenn Black about how to lay out a grid (Ward and Davis 1999:120-121). The methods that he learned included designating each unit within the grid based on its location relative to the grid's origin. At Town Creek, the designation of each square was the location of its southeast corner relative to the grid's baseline. These designations were given as a northing and an easting with the latter expressed as either an "L" or an "R" depending on if the unit was to the left or right of the north-south baseline. Coe followed these procedures at Town Creek and other early excavations in the Piedmont, and similar procedures are followed by RLA excavators today (Ward and Davis 1999:121).
4. Interestingly, Coe (1952:309) had earlier seen these structures as houses.
5. Joseph Mountjoy of UNC-Greensboro, who excavated the Payne site, generously gave me access to that site's collections as well as his field notes and maps. He has also transferred the Payne site materials to UNC-Chapel Hill to be curated.

Chapter 2: Ceramic Chronology

In order to examine the evolutionary development of the Town Creek community, a basis must be established for dating the site's numerous contexts and architectural elements as well as grouping them into relatively contemporaneous sets that represent stages in the site's development. For several reasons, changes in ceramics will be used to date contexts at Town Creek. First, the use of changes in pottery for dating deposits is a common, successful method in archaeological research worldwide (Rice 1987:435; Sinopoli 1991:74). Second, pottery is so ubiquitous at Town Creek that a dating scheme based on ceramic attributes and assemblage characteristics will allow many of the site's contexts to be dated. Third, the common use of ceramics for dating purposes in the Southeast (see Gibson 1993) in general and the South Appalachian Mississippian area in particular (see Anderson 1994:363) means that once a ceramic chronology is established for Town Creek, it can be related to extant chronological frameworks for other sites in the region.

The goal of the ceramic sequence and chronology is to recognize assemblage or vessel attributes that are diagnostic of segments of the site's history and to use the distribution of these diagnostics to date—assign to a relative stage in the site's history and associate with an absolute date based on a ceramic chronology—contexts and architectural elements across the entire site. Several steps are important in establishing Town Creek's ceramic chronology. The first is to establish a ceramic sequence (see Willey and Phillips 1958:24-25) by determining stylistic trends in ceramics that reflect the site's overall history

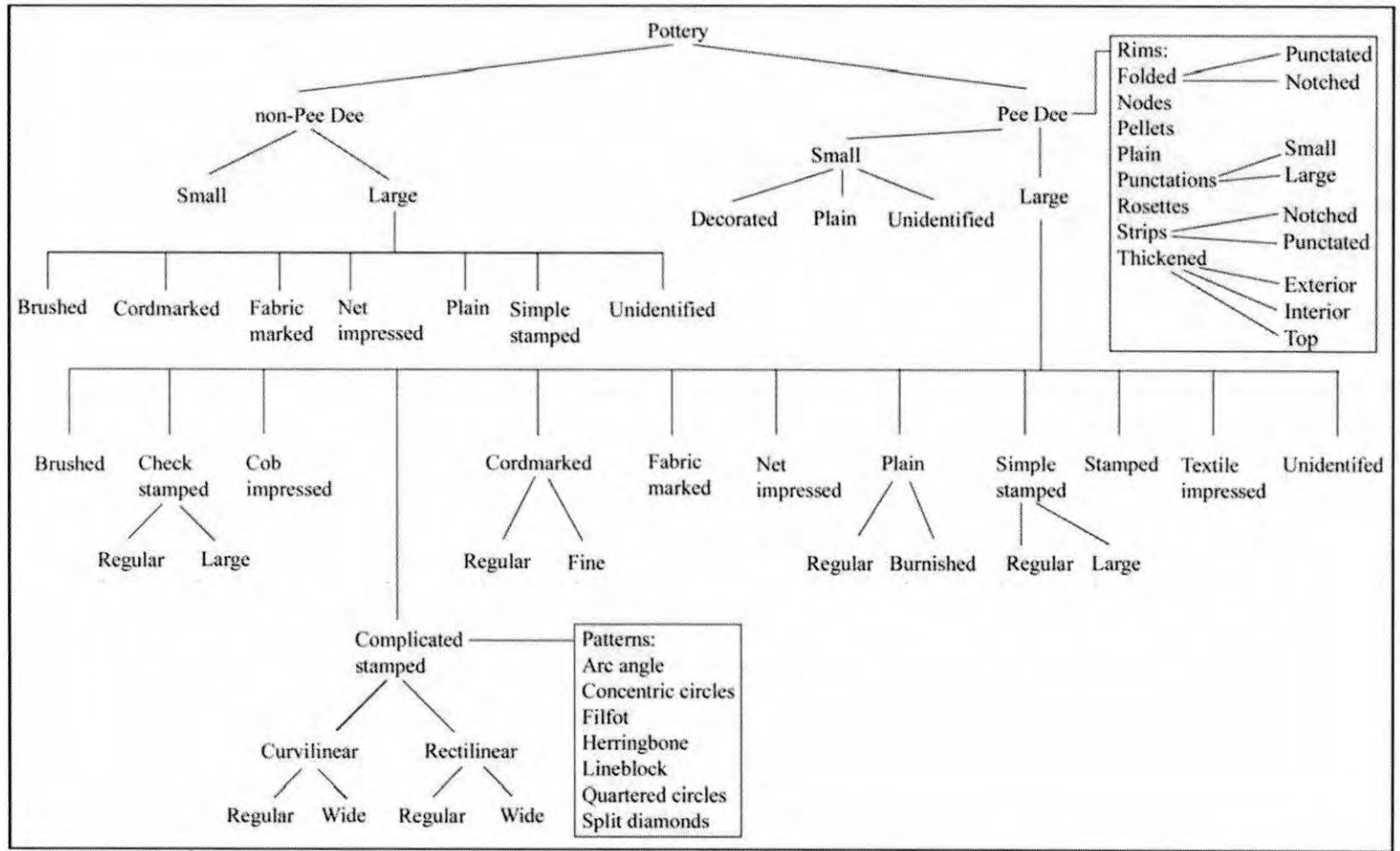
(i.e., establish a relative order of ceramic change). Once an overall sequence is established, the second step is to isolate assemblages characteristic of segments of the site's history. In this step, the continuum of ceramic change represented in the overall ceramic sequence is divided into segments. The assemblages that constitute each segment are then used to construct a model assemblage, each of which represents a ceramic phase—the pottery that would have been used during a particular period of time (see Willey and Phillips 1958:22-23). Third, the local sequence of ceramic assemblages is transformed into a ceramic chronology by relating it to internal stratigraphic information, radiocarbon dates, and ceramic chronologies from adjacent regions.

CERAMIC ANALYSIS AND TYPOLOGY

Pottery analysis for this research consisted of six steps with each step involving several typological options (Figure 2.1). In this section, each step is discussed and classes are defined. The goal of the ceramic analysis and the typology is to recognize and document the distribution of elements of Pee Dee pottery that changed through time. This is accomplished by incorporating into the ceramic typology attributes, types, and modes recognized as chronologically sensitive in adjacent regions (DePratter and Judge 1990; Hally 1994; South 2002; Stuart 1975) as well as in previous analyses of Pee Dee pottery. These previous analyses include Reid's (1967) observations of pottery from the mound at Town Creek, my analysis of pottery from the mound (Boudreaux 2001), and Oliver's (1992) work at the Leak and Teal sites.

The first step of the pottery analysis was to distinguish between Pee Dee and non-Pee Dee pottery based on gross differences in temper and paste. Pottery was classified as non-

Figure 2.1. Pottery analysis decision tree.



Pee Dee based on the size and distribution of temper particles in the paste. The non-Pee Dee category probably includes pottery from the Early Woodland Badin series, the Middle Woodland Yadkin series, and the Late Woodland Uwharrie series (Coe 1952, 1964, 1995; Ward and Davis 1999). While the pottery classified as non-Pee Dee includes a great deal of variation in color, the majority of it is light in color (e.g., lots of yellows and light browns) with a paste whose temper consists of large, widely spaced pieces of crushed rock—primarily white and clear quartz (see Reid 1967:1). Based on Coe's (1995:Table 9.1) analysis, most of the non-Pee Dee pottery is probably from the Yadkin series.

Pee Dee pottery is defined as being generally dark in color (see Reid 1967:51) (e.g., lots of dark browns, grays, and blacks) with a paste that has medium-sized grit temper distributed relatively evenly throughout it. It should be noted that earlier analysts have described the Pee Dee pottery from Town Creek as being sand-tempered (Coe 1995:168). Although there is sand in the paste, I have called the Pee Dee pottery grit tempered because fine-to-medium pieces of grit, which are larger and more heterogeneous than the sand particles, predominate. Reid describes the paste of Pee Dee pottery as being compact, granular, sugary, and coarse in appearance (Reid 1967:42, 52). Although a great deal of variability exists in the coarseness and density of temper, patterned distributions to this variation were not recognized in the analysis described here and temper was not used to internally sort Pee Dee pottery. Reid (1967:2) was unable to recognize any chronological significance to differences in paste and temper, although he does describe the temper and paste of plain sherds as being generally "finer" than that of complicated stamped sherds (Reid 1967:52). It would not be surprising to find differences in temper among vessel types that were related to function, especially regarding issues of thermal and mechanical stress

(see Steponaitis 1984), but their recognition would require a level of analysis I was unwilling to initiate and sustain at this time.

The second step of the analysis was to segregate sherds by size based on maximum sherd length.¹ The third step was to classify pottery based on differences in surface treatment, defined as a modification of a vessel's surface that covers all or nearly all of its exterior. Pee Dee sherds with a maximum length less than 4 cm were classified as either decorated, plain, or unidentified because of the difficulty in consistently identifying all surface treatments on small sherds. All Pee Dee sherds with a maximum length greater than 4 cm were classified as a particular type based on surface treatment.

The fourth step was to identify subtypes or what are essentially varieties, although they have not been formally defined as such using type-variety nomenclature (see Phillips 1970:24). These included fine, large, or wide examples of some surface treatments, as well as re-occurring complicated stamped patterns.

Surface Treatment Types and Subtypes

Most of the Pee Dee types are based on surface treatments produced by striking the exteriors of still plastic vessels with carved wooden paddles or paddles wrapped in fibrous materials. Other surface treatments were produced by brushing or smoothing. In this section, the pottery types used in this research are defined. These types are generally the same as those described by Reid (1967) and Coe (1995) in their discussions of Pee Dee pottery. The convention of using binomial nomenclature (e.g., cultural unit followed by surface treatment) to name South Appalachian Mississippian types is not used because I want to avoid at this time—when I have only analyzed samples from a relatively limited

geographic area—any implication that Town Creek is more or less culturally related to any other region. Types are related to descriptions of similar materials where relevant.

Brushed. This surface treatment consists of thin, irregular, closely spaced, parallel lines executed on a very wet paste (Figure 2.2).

Check stamped. Caldwell and McCann's (1941:44) description of Savannah Check Stamped as consisting "of a grill of raised lines which intersect to form squares or diamonds" is applicable to the Pee Dee materials discussed here. Two varieties are recognized within this type. Small check stamped consists of well-defined, clear checks that were 2.5 mm or less in size (Figure 2.2). Large check stamped consists of less distinct, faintly stamped checks generally greater than 3 mm in size (Figure 2.2).

Cob impressed. This pattern consists of thin, parallel, widely spaced lines generally oriented perpendicular to the rim (Figure 2.2). It was produced by working the exterior of a plastic vessel with a corn cob without the kernels (Coe 1995:170).

Complicated stamped. Reid (1967:51) provides the best description of this surface treatment:

Exteriors smoothed then stamped with a carved, wooden paddle. A design of evenly cut grooves and moderately narrow lands is generally well executed on the stamp while its application is less precise on the vessel. Stamping occurs over the entire exterior and over stamping prevails to obscure the definition of the total stamp.

Several varieties of complicated stamping are recognized, some of which correspond to established types. Curvilinear are those that contain curved lines while patterns with only straight lines are considered rectilinear. An additional distinction is made based on the width of the ridges and grooves in the pattern. Most complicated stamped sherds have grooves that

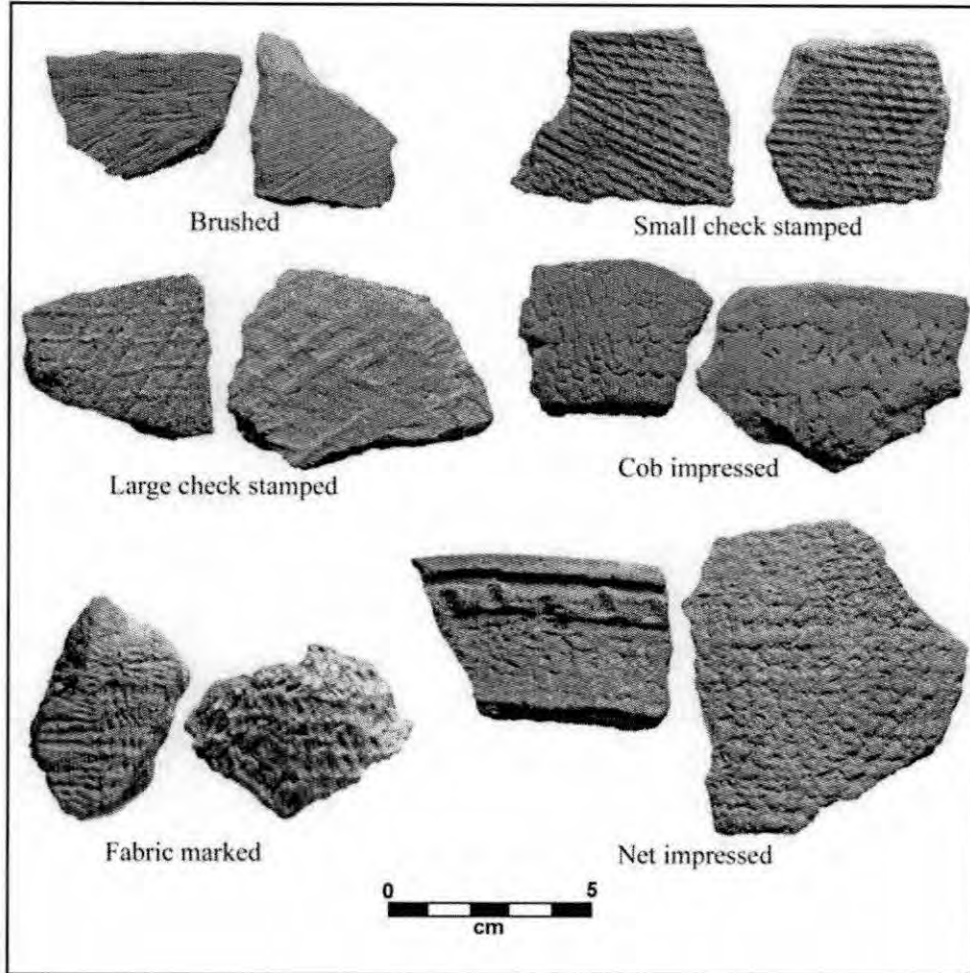


Figure 2.2. Pee Dee surface treatments: brushed, check stamped, cob impressed, fabric marked, and net impressed.

are 1 to 3 mm wide with ridges of essentially the same width (Figure 2.3). Almost all of these sherds correspond to the type Savannah Complicated Stamped (Wauchope 1966:77-79). The few exceptions—based on patterns that consist of line-filled and chevron-filled ovals (see Reid 1967:Plate 7)—are similar to Woodstock Stamped (Wauchope 1966:60-62). Sherds with grooves greater than 3.5 mm and ridges of roughly the same width are classified as wide (Figure 2.4), and these sherds generally correspond to Lamar Complicated Stamped (see Wauchope 1966:79-82). Several sherds with very wide grooves but thin, sinuous, curvilinear ridges (see Reid 1967:Plate 7) correspond to the type Long Swamp Stamped (Wauchope 1966:69-70).

It is possible on some complicated stamped sherds to recognize patterns that appear consistently in Savannah and Lamar assemblages across the South Appalachian Mississippian culture area. Stamp patterns were identified because there may be chronological significance to their occurrence (see Anderson 1994:362). Seven complicated stamped patterns (Figures 2.5 and 2.6) are recognized, all of which were also used by Reid (1967:5-8).

Arc angle. A design consisting of nested arcs and nested right angles arranged in quadrants such that two panels of arcs are opposite each other as are two panels of angles.

Concentric circles. As the name implies, this pattern consists of a series of concentric circles. While Reid (1967:5) recognized two varieties based on the form of the innermost circle, I chose to lump all examples into a single category when early stages of analysis did not indicate any benefit to splitting them.



Figure 2.3. Pee Dee series complicated stamped pottery.



Figure 2.4. Pee Dee series wide complicated stamped pottery.

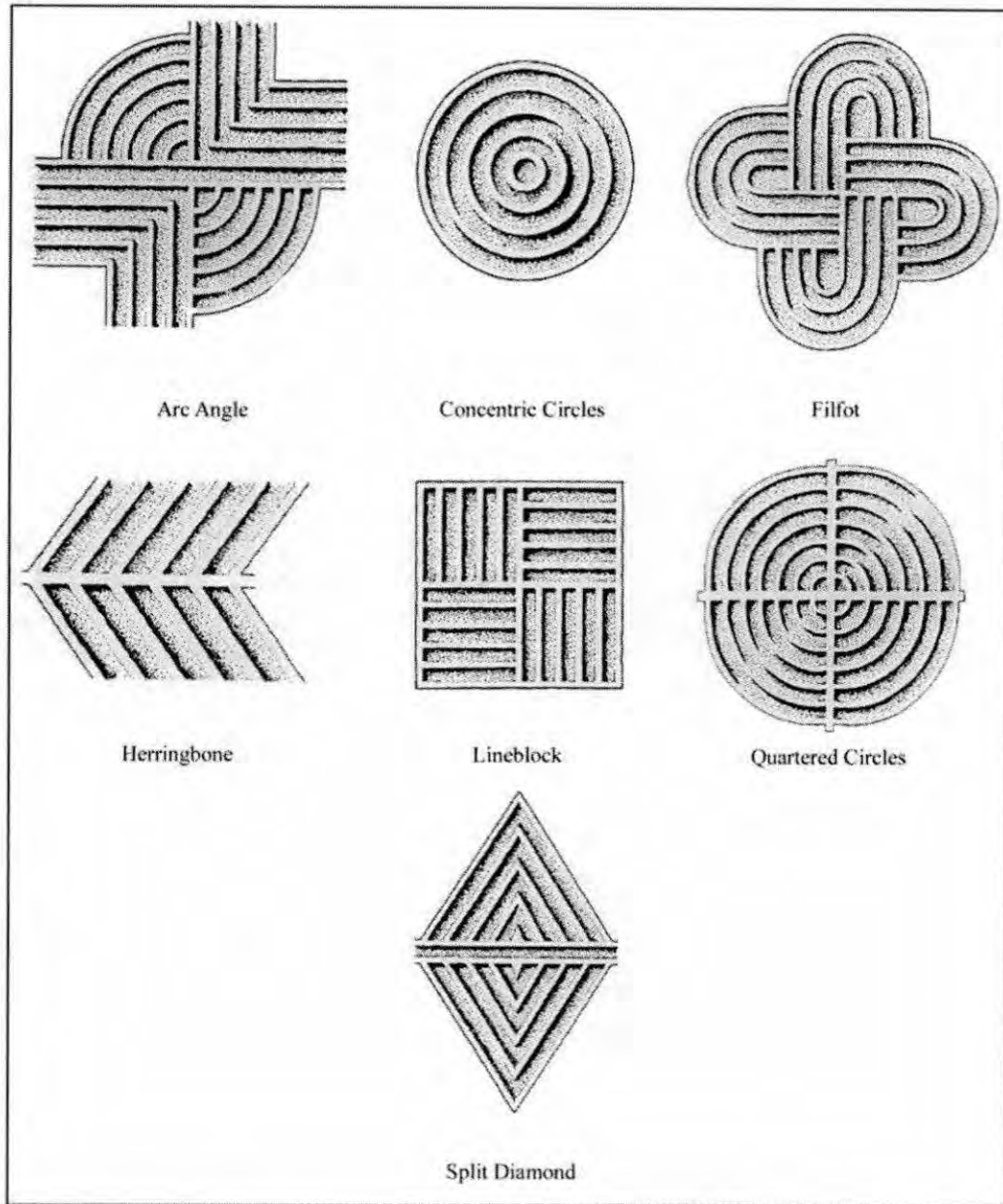


Figure 2.5. Pee Dee complicated stamped patterns (adapted from Reid 1967:Plates 2 and 3).

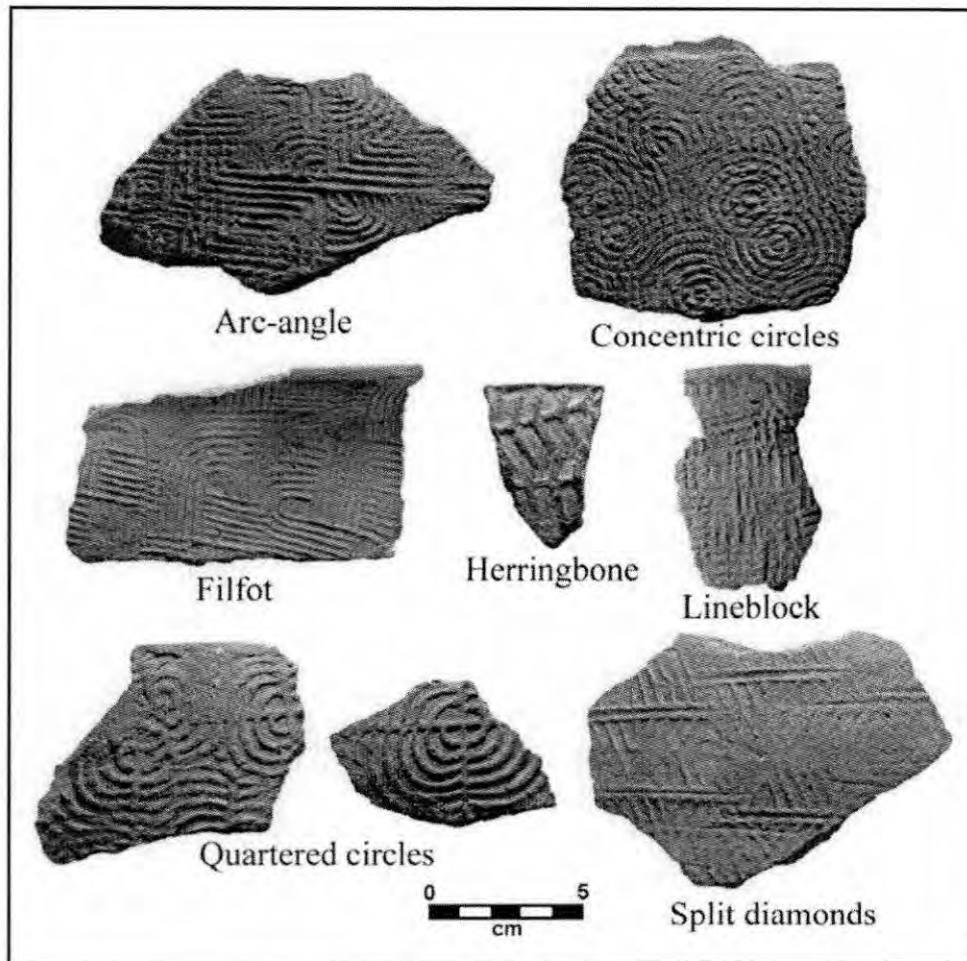


Figure 2.6. Pee Dee complicated stamped patterns.

Filfol. This pattern has the appearance of a rounded cross. The arms of the cross are formed by multiple lines that intersect at a right angle to form the cross and then curve back 180 degrees into the design.

Herringbone. This is a design formed by a long, straight line from which a number of smaller lines emanate at a 45 degree angle. All of the smaller lines are parallel to each other.

Lineblock. This design consists of parallel and perpendicular lines arranged in quadrants such that panels opposite each other contain parallel lines.

Quartered circles. This is a series of concentric circles superimposed by a cross formed by two perpendicular ridges passing through the center of the circles.

Split diamonds. This pattern consists of two equal-sized triangles aligned at their bases on each side of a groove. The overall effect is of a diamond that has been cut in half.

Cordmarked. This treatment consists of a surface covered in parallel, closely spaced lines resulting from the use of a cord-wrapped paddle to malleate the vessel. Two varieties of cordmarking are recognized. Sherds classified as cordmarked have a good bit of variation in the width, spacing, and orientation relative to the rim of the cord impressions (Figure 2.7).

Twists of the cord were clearly visible in the impressions on these sherds. Sherds classified as fine cordmarked exhibited smaller, more closely spaced cord impressions (Figure 2.8).

Twists in the cord often were not visible and many of these sherds could arguably be classified as fine simple stamped (see Oliver 1992:204 and 206). Fine cordmarked sherds were generally overstamped and cord impressions were most frequently oriented 45 degrees to the rim. These impressions were more evenly spaced, were uniform in width, and generally covered the entire exterior surface. The lips of vessels of this type were often stamped as well. The top-thickened rim mode appeared exclusively on sherds of this type.

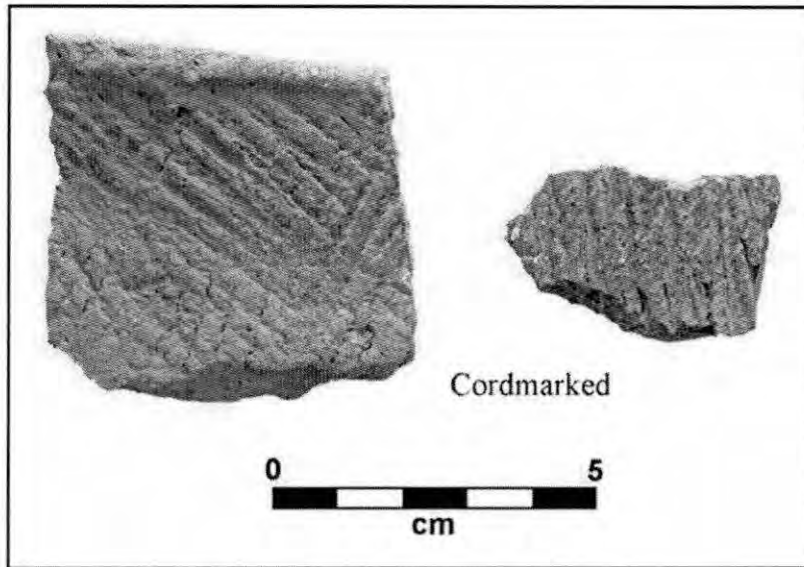


Figure 2.7. Pee Dee series cordmarked pottery.

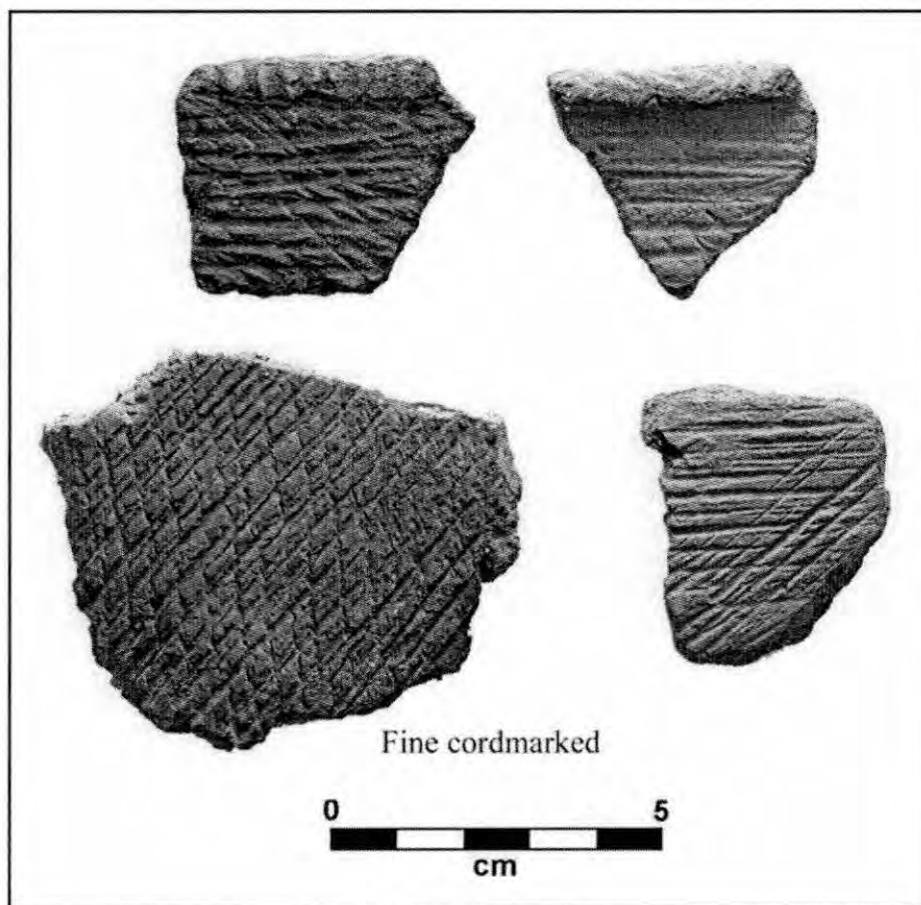


Figure 2.8. Pee Dee series fine cordmarked pottery.

Oliver (1992:203-206) defined the types Savannah Creek Fine Cordmarked and Savannah Creek Fine Simple Stamped based on his excavations at the Teal site. These are certainly the same as what I have identified as fine cordmarked, although I have chosen not to segregate sherds on which cord impressions were not clearly visible. I agree with Oliver (1992:203) that these fine cordmarked (and/or simple stamped) sherds appear to correspond to Savannah Fine Cordmarked (Caldwell and McCann 1941:43-44), Santee Simple Stamped (Anderson 1982:302), and Camden Simple Stamped (Stuart 1975:174).

Fabric marked. This treatment consists of circular impressions in rows oriented parallel to the rim (Figure 2.2). Coe (1995:174) attributed the pattern to paddling the vessel's exterior with a roll of stiff, plaited matting.

Net impressed. This treatment consists of regularly spaced, round depressions across the entire exterior surface (Figure 2.2). These depressions are thought to be impressions of the knots tied in a net that had been wrapped around a wooden paddle (Coe 1995:173).

Plain. Plain pottery has an exterior that was smoothed but otherwise free of surface treatments. A distinction was made between plain and burnished plain based on the luster and more compact paste of the latter.

Simple stamped. This pattern of parallel lines was produced by a wooden paddle carved with straight lines all oriented in the same direction. Two varieties of simple stamping are recognized. The simple stamped category consists of relatively thin, faint impressions while large simple stamped consists of clear, distinct impressions with grooves wider than 2 mm (Figure 2.9).

Stamped. This is a residual category that contains treatments that were produced by some form of carved wooden paddle, but that could not be confidently classified farther.

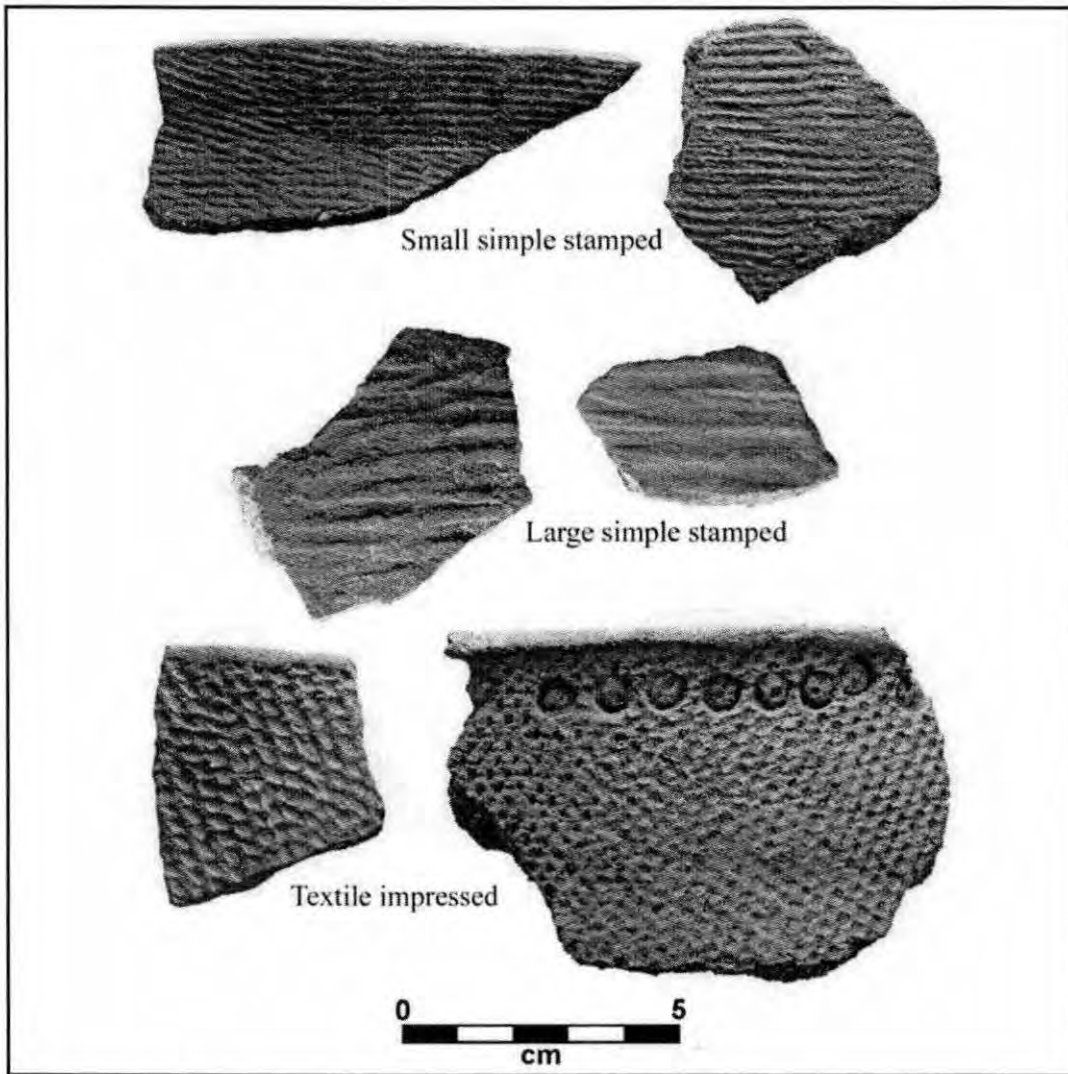


Figure 2.9. Pee Dee surface treatments: simple stamped and textile impressed.

Textile impressed. This treatment consists of regularly spaced round to diamond-shaped impressions across the entire surface (Figure 2.9). This treatment was produced by paddling cloth into the exterior surface of still plastic vessels (see Coe 1995:175-178 for a discussion of the various textile types represented; Reid 1967:8-9). The description of this treatment sounds similar to that for net impressed, but the depressions are more closely spaced in textile impressed. Textile impressed sherds are sometimes similar to check stamped sherds, but a closer examination often shows impressions of interwoven fabrics in the former. Coe (1995) and Reid (1967) both state that textile impressing was produced by wrapping vessels in strips of cloth and then paddling them into the clay rather than using cloth-wrapped paddles.

Unidentified. Sherds in this category could not be classified beyond the point that they had a surface treatment other than plain.

Modes

Pee Dee pottery was also classified based on modes—consistently co-occurring attributes whose distributions cross-cut those of the types defined by surface treatment (see Phillips 1970:28). The modes described here are all based on either the presence or absence of modifications to the upper portion of vessels, primarily to vessel rims but also to shoulders and necks. The different modes include plain—in which no modifications were present, punctations applied directly to vessel walls, and various appliqués.

Folded rim. This is a thickening of the vessel wall at the lip either by the addition of a coil to the exterior or by bending the vessel's lip back on itself. Two varieties of folded rim are recognized. Folded-and-notched rims show a thickening of the vessel's exterior that was

flush with the lip and that was decorated with large, evenly spaced rectangular punctations oriented perpendicular to the lip (Figure 2.10). Folded-and-punctated rims consist of a thickening that was sometimes flush with the lip but often located well below the lip (Figure 2.10). Folded-and-punctated rims were decorated mostly with large circular punctations, but rectangular punctations also occurred.

Nodes. Nodes are large (generally greater than 15 mm tall and 5 mm thick), round pieces of clay applied to vessel exteriors just below the lip (Figure 2.11). Most nodes are punctated in the center while a few are either plain or punctated multiple times. Some are molded onto the exterior surface of the vessel while others are “riveted” into the body—the vessel wall was actually built around one end of the node. Nodes are widely spaced on vessels with only two or four placed equidistant around its circumference. Nodes are often outlined by one or two rows of punctations that continue along the rim below the lip (Reid 1967:24).

Pellets. Pellets are small (less than 10 mm), round to rectangular, individual pieces of clay added to a vessel exterior around its entire circumference (Figure 2.11). Pellets were placed either just below the vessel’s lip or further down on its shoulder.

Plain rim. These are rims with no decoration or appliqués.

Punctated. Punctations are predominantly circular. They were formed with both solid and hollow dowels in a continuous band around the vessel’s circumference, often just below the lip but also at the neck. Circular punctations appeared in two size classes. Small punctations are less than 10 mm in diameter and were created with solid or hollow dowels (Figure 2.12). Large punctations are greater than 10 mm in diameter and were executed with either a cane or a fingernail (Figure 2.12). Rectangular punctations created with a solid dowel in a band at the shoulder of carinated vessels are also present.

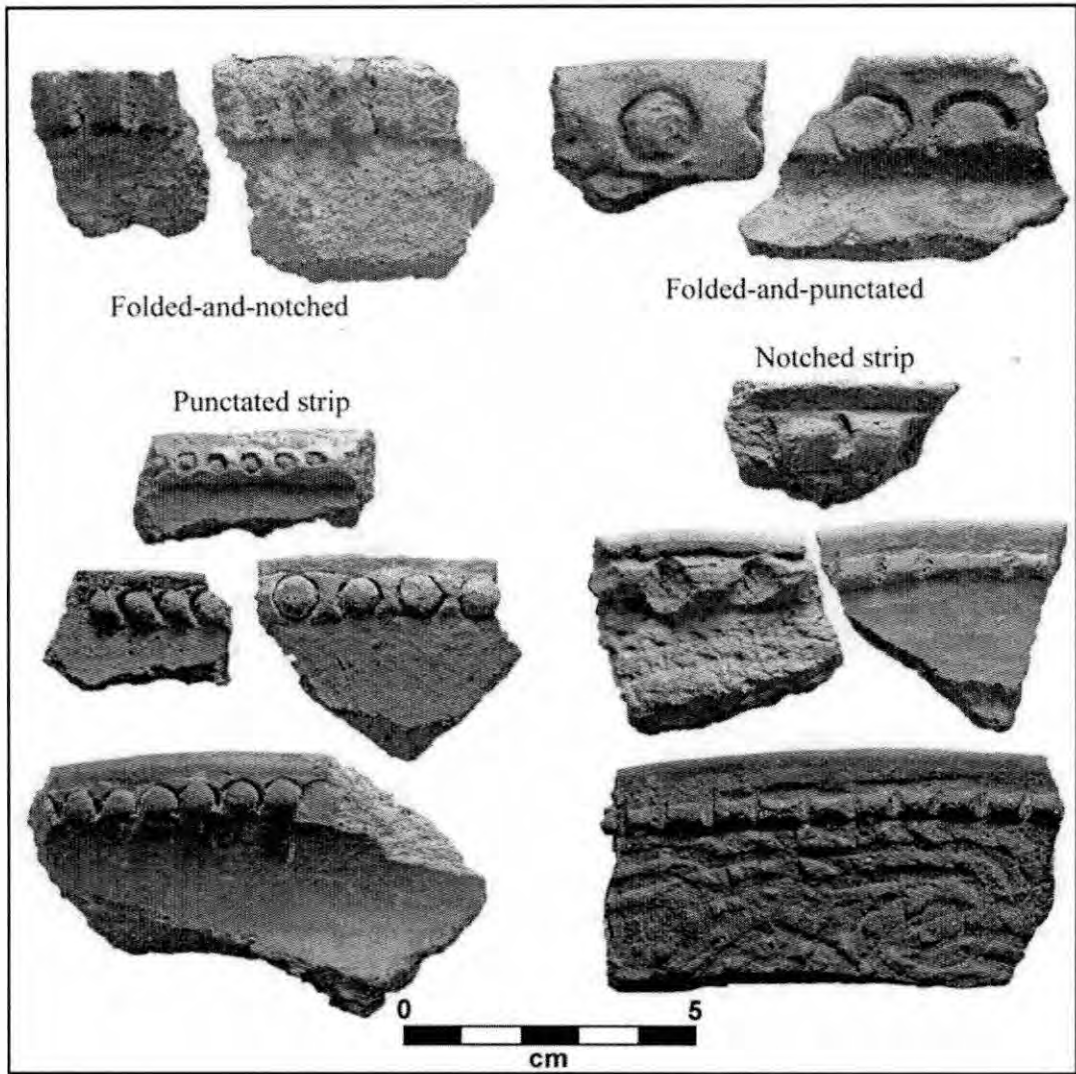


Figure 2.10. Rim modes: folded and strips.

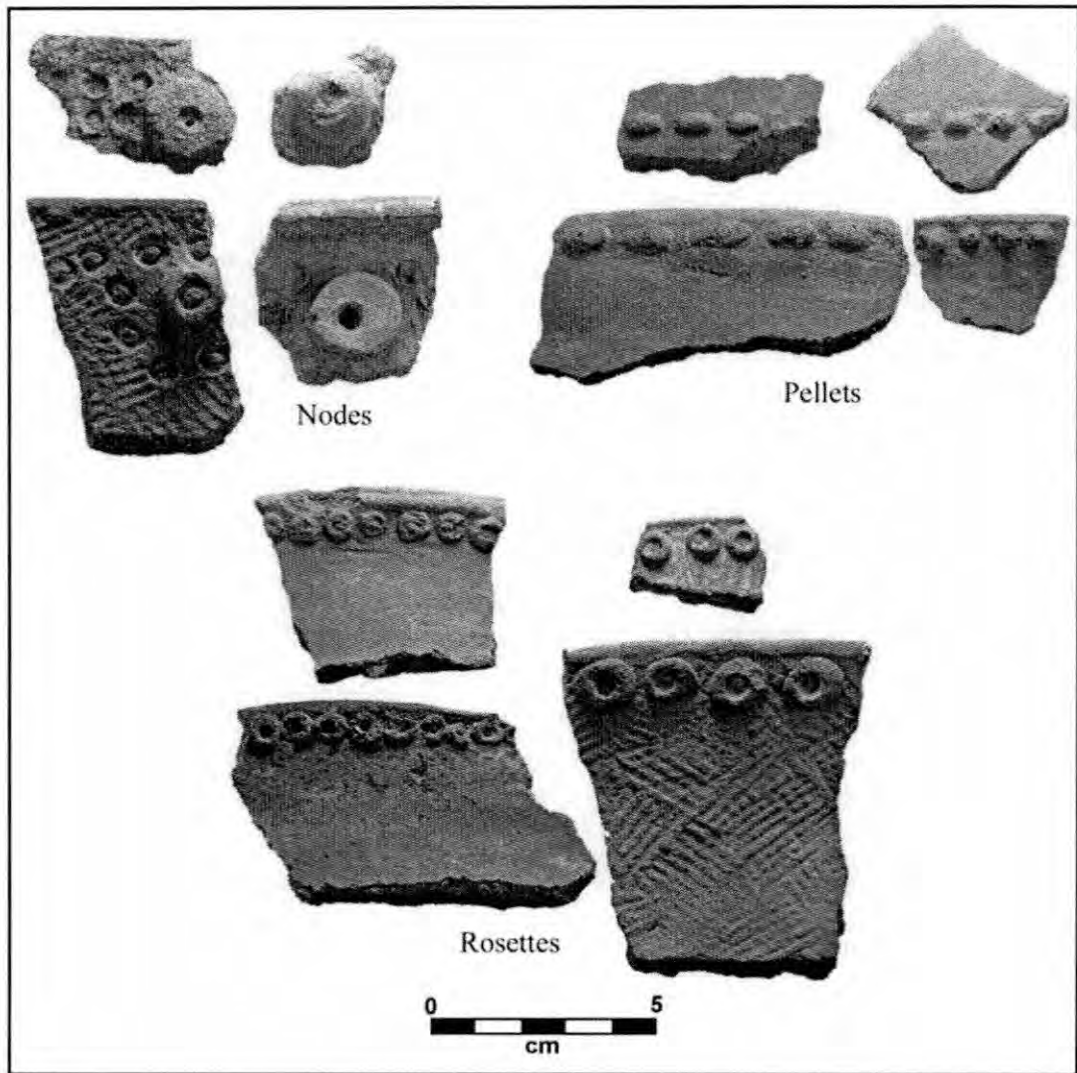


Figure 2.11. Rim modes: nodes, pellets, and rosettes.

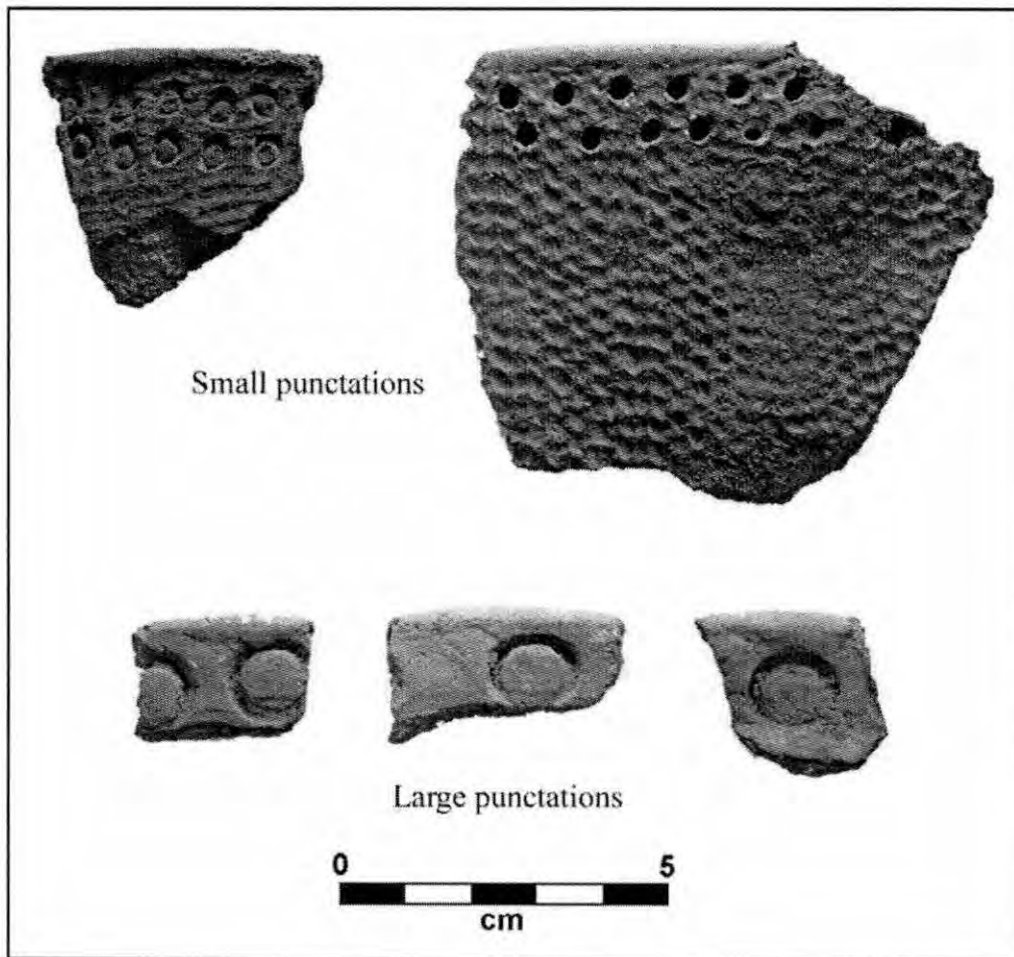


Figure 2.12. Punctated rim mode.

Rosettes. Rosettes are small (generally less than 10 mm tall and 5 mm thick), round pieces of clay applied in a continuous band around vessel exteriors just below the lip (Figure 2.11). They were punctated with a round, solid dowel that produced a “doughnut” effect. Reid (1967:25) describes them as:

Closely spaced circular clay pellets [that] are slightly flattened as they are applied to the rim below the lip and then punched centrally with a solid dowel, producing a doughnut shape.

Strips. This mode consists of a narrow strip of clay—generally 5 mm or less in height although occasionally wider—that encircles the vessel parallel to the lip. Strips were never flush with the vessel lip, being located just below or well below the lip. Strips were decorated in one of two ways along their entire length. One form of decoration consists of punctations with a circular dowel (Figure 2.10) that was most often hollow—perhaps cane—but occasionally solid. The second form, notched, also consists of punctations, but the effect is to divide the strip into roughly rectangular segments (Figure 2.10). Rim strips as defined here are often referred to as fillets in the literature (Reid 1967:25).

Thickened rim. This mode consists of a coil added to the top, exterior, or interior of the vessel’s lip. Exterior thickened rims (Figure 2.13) are relatively rare. Unlike rim strips which are relatively narrow and below the lip, exterior thickened rims are wide and flush with the lip. Exterior thickened rims are distinct from folded rims in that the extra coil used in the former was not completely welded to the vessel wall—a distinct break between the two is visible—while the extra coil used in folded rims often seems to be a continuation of the vessel wall. Interior thickened rims consist of an extra coil of clay added to the vessel’s interior at its lip (Figure 2.13). In each case, the additional coil was thoroughly welded with

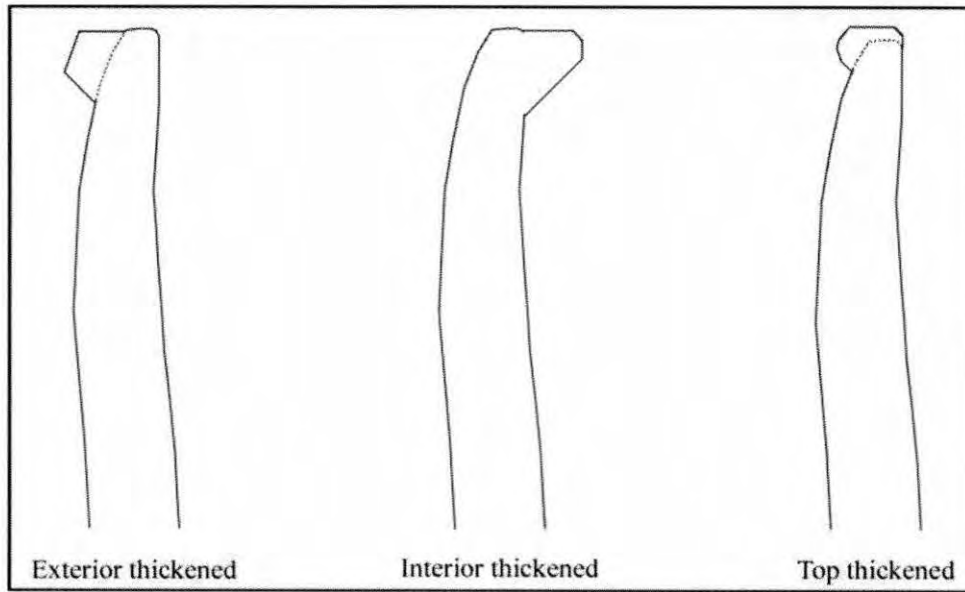


Figure 2.13. Thickened rim mode.

the vessel wall so that no distinct break was visible between the two. Top-thickened rims (Figure 2.13) appear exclusively on fine cordmarked sherds, and they were most often stamped in the same way as the vessel's surface (Figure 2.8). In most top-thickened examples, the additional coil was not completely welded to the lip so a distinct break can be seen between the two in profile.

SERIATION

A ceramic sequence was constructed for this research by ordering assemblages through the use of several seriation methods. Seriation can be defined as a technique used to arrange units into a sequence such that, starting from any specific unit, the other units most similar to it are closest to it in the sequence, and similarity decreases with distance in the sequence (Cowgill 1972:381; Marquardt 1982:408; Shennan 1988:341). One advantage of seriation methods is that they allow the integration of contexts from separate areas of excavation into a single chronological sequence, not just those that can be related through stratigraphy (see Drennan 1976). This allowed the incorporation of assemblages from across the Town Creek site as well as some from nearby Pee Dee sites to establish as complete of a sequence as possible. This was important at Town Creek because only two parts of the site contained stratified deposits, the mound and the riverbank midden, and there were several problems with relying solely on them. One problem was that these deposits could represent just a portion of the site's history and using them only would produce an incomplete sequence. Also, while both areas contained stratified deposits, they were not always discrete—the deposits next to the river represent trash from countless episodes of dumping and mounds are generally notorious for their complex stratigraphy.

Assemblages Seriated

The local ceramic sequence for Town Creek is based on seriations of 11 assemblages from four sites and several types of contexts² (Tables 2.1, 2.2, and 2.3). I only considered assemblages that contained 50 or more sherds that were 4 cm or longer to avoid sampling issues. Not only is 50 sherds a threshold others have recognized as being minimally acceptable (Ford 1962:41), but I also found from experience that problems arose when using smaller assemblages. Eight assemblages came from Town Creek—six from large pit and basin features scattered across the site and two from midden layers in the mound (Figure 2.14). The two mound layers are Level A, a premound midden, and Level X, a flank midden (see Smith and Williams 1994) located near the southwest corner of the mound that was presumably associated with mound-summit activities (Reid 1985:25-26). Level A was an extensive deposit, covering much of the area beneath the mound. Level X was also relatively extensive. All of the sherds that came from Level A and Level X were not analyzed because of the large samples involved. The portions of these levels used consist of sherds from a 20- \times -100-ft block of excavation units that crosscut the mound along the baseline and L10 line (Figure 2.14).

Materials from the Leak site (31Rh1) in Richmond County, the Teal site (31An1) in Anson County, and the Payne site (31Mr15) in Moore County were also included as a way to incorporate assemblages from periods that may have been absent or poorly represented at Town Creek (Figure 2.15). A Mississippian occupation, as indicated by Pee Dee pottery, is the predominant component represented at each site. The Leak and Teal sites are located along the Pee Dee River within about 10 miles of Town Creek. The Payne site is located on

Table 2.1. Surface treatment counts in seriated assemblages.

Context	Brushed	Small Check Stamped	Large Check Stamped	Cob Impressed	Curv. Comp. Stamped	Wide Curv. Comp. St.	Rect. Comp. Stamped	Wide Rect. Comp. St.	Cordmarked	Fine Cordmarked	Fabric Marked	Net Impressed	Plain	Burnished Plain	Simple Stamped	Wide Simple St.	Stamped	Textile Impressed	Unidentified	Total
Town Creek																				
Feature 13	-	-	1	-	24	20	7	16	-	-	-	3	38	13	-	8	31	5	19	185
Feature 16	-	-	-	-	36	-	4	-	1	-	-	-	13	3	-	-	11	15	11	94
Feature 19	-	1	2	-	16	-	4	2	-	-	1	-	30	-	2	-	17	6	7	88
Feature 30	-	-	-	-	11	3	3	-	-	-	-	-	18	17	-	-	7	2	3	64
Level A	-	-	-	-	118	-	44	-	1	1	4	-	73	-	-	-	34	10	20	305
Level X	-	-	-	-	65	-	15	-	1	-	2	-	78	4	-	-	15	14	8	202
Sq. 160-170L40/Pit	1	1	3	-	8	7	6	3	2	-	-	-	18	6	1	1	18	-	6	81
Sq. 90L70/Pit 10	-	-	-	-	25	-	4	-	2	-	-	-	10	1	1	-	11	-	3	57
Other sites																				
Leak	-	-	-	-	21	-	17	-	-	-	-	-	23	2	-	-	9	4	2	78
Payne	-	8	-	-	27	-	8	-	6	-	8	4	35	-	13	-	9	12	14	144
Teal	-	1	-	1	109	-	45	-	90	36	1	-	69	8	8	-	46	3	23	440
Total	1	11	6	1	460	30	157	21	103	37	16	7	405	54	25	9	208	71	116	1738

Table 2.2. Rim modes from seriated assemblages.

Context	Non Pee Dee	Plain	Thickened Top	Small Punctated	Thickened Exterior	Rosettes	Pellets	Punctated Strip	Large Punctated	Folded and Fluted	Nodes	Notched Strip	Folded and Punct.	Total
160-170L40/Pit	1	24	-	1	1	1	1	1	1	-	-	3	4	38
Feature 13	5	102	-	-	-	3	3	5	1	-	4	3	10	136
Feature 30	-	13	-	-	-	-	3	4	-	1	1	-	-	22
Feature 19	-	15	-	-	-	-	1	3	1	-	-	-	-	20
Level X	1	50	-	2	-	1	4	-	-	-	-	-	-	58
Leak	-	29	-	-	-	3	1	-	-	-	-	-	-	33
Feature 16	-	15	-	-	-	2	-	-	-	-	-	-	-	17
Payne	6	152	1	5	1	-	-	-	-	-	-	-	-	165
Level A	5	129	2	1	-	-	-	-	-	-	-	-	-	137
90L70/Pit 10	-	19	-	-	-	-	-	-	-	-	-	-	-	19
Teal	3	138	4	1	-	-	-	-	-	-	-	-	-	146
Total	21	686	7	10	2	10	13	13	3	1	5	6	14	791

Table 2.3. Contexts of assemblages used in seriation.

Context	Description	Location
Town Creek		
Feature 13	large basin	adjoining portions of Sq. 20R0, Sq. 20R10, and 30R0/Mg3
Feature 16	small basin	Sq. 20L30/Mg2
Feature 19	large basin	Sq. -30R10/Mg3
Feature 30	pit	Sq. -100R50/Mg3
Level A	submound midden	throughout BL and L10 units
Level X	mound-flank midden	in southern BL and L10 units
Sq. 160-170L40-Pit	large pit	adjoining portions of Sq. 160L40 and Sq. 170L40/Mg3
Sq. 90L70-Pit 10	pit	Sq. 90L70/Mg3
Other Sites		
Leak	general excavation levels	area excavated by Keel
Payne	general excavation levels	area excavated by Mountjoy
Teal	general excavation levels	area excavated by South

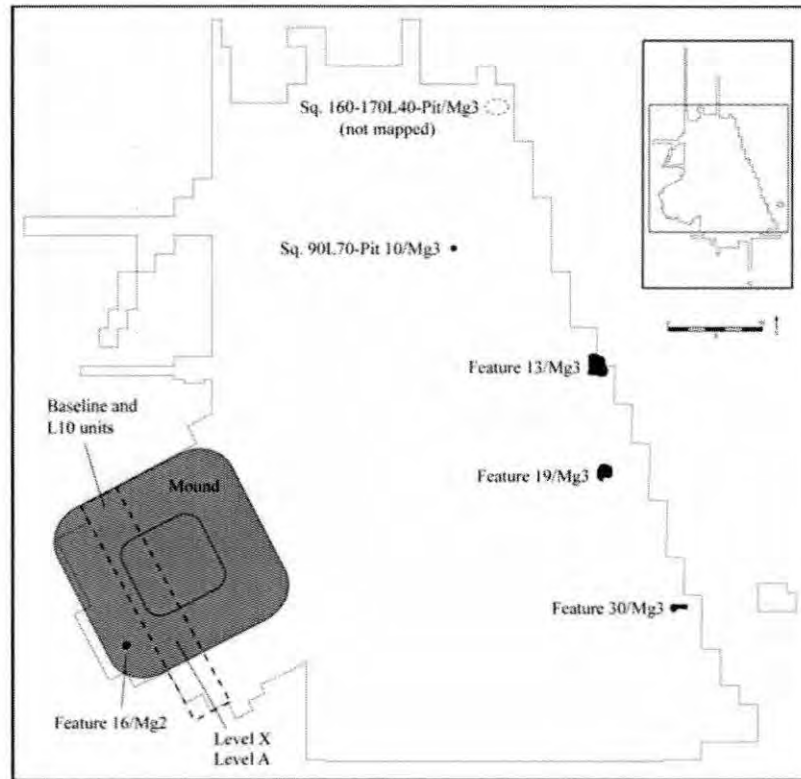


Figure 2.14. Location of seriated assemblages from Town Creek.

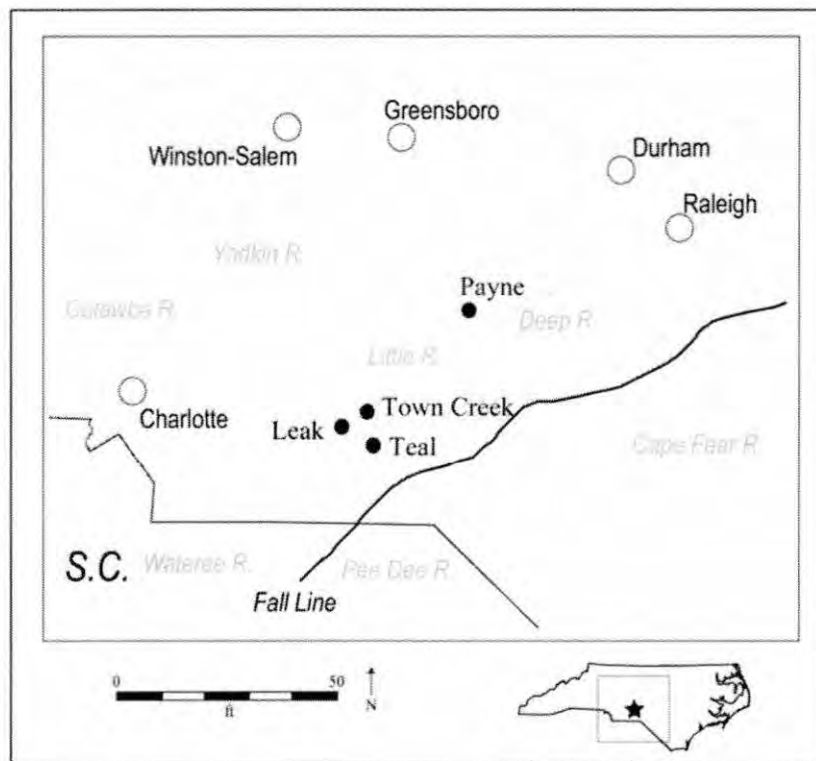


Figure 2.15. Pee Dee sites near Town Creek.

the Deep River about 30 miles from Town Creek. The Leak site pottery came from two test units that Bennie Keel excavated in 1961 (see Oliver 1992:87-92). The Teal site pottery came from two test units excavated by Stanley South in 1958 (see Oliver 1992:176-181). Both of these excavations were conducted under the auspices of the RLA, where the collections are still curated. The Payne site materials came from excavations conducted by Joseph Mountjoy (1989), who graciously allowed me to use the notes and collections from his fieldwork. Because no single excavated context from Leak, Teal, or Payne had more than 50 sherds of sufficient size, all of the excavated contexts were collapsed into a single assemblage for each site. This is justifiable because surface treatments and rim modes indicate that these three assemblages each represent relatively short occupations.

Nonmetric Multidimensional Scaling

Nonmetric multidimensional scaling (MDS) was used to seriate these assemblages. MDS is a quantitative method that has been used for decades to seriate archaeological materials (Cowgill 1972:396). MDS techniques fashion a geometric representation of a matrix of similarities or dissimilarities such that relative distances between points on a graph reflect relative differences between units in the dissimilarity matrix (Marquardt 1982:428). Widely spaced points in the graph indicate relatively large differences between consecutive units while clusters of points will indicate groups of similar units (Cowgill 1972:398). MDS begins with a measure of similarity or dissimilarity between cases in an abundance matrix, which consisted of percentages of pottery types in this case. MDS is nonmetric because it works not on the actual numerical values of the distances between the cases, but rather on their rank ordering (Shennan 1988:348). The relationships among the cases are represented

in multidimensional space with the number of dimensions being one less than the number of cases (Marquardt 1982:428; Shennan 1988:348). The MDS method tries to preserve the rank-ordering of the distances between points as the dimensions are reduced through an iterative procedure (Shennan 1988:348). Stress is a measure of the success with which the ordering is maintained as the number of dimensions is reduced (Shennan 1988:348-349). If a body of archaeological data is capable of being seriated well, it can be represented with little stress in only one or two dimensions (Marquardt 1982:429). If there is a strong temporal component in the relative frequencies of the ceramic types, MDS will generally produce a two-dimensional plot in which the collections are arranged in a chronological order along an arc (DeBoer et al. 1996:266; Kendall 1971:223). MDS will not produce a chronological ordering if the data are insufficient (Drennan 1976:292). If the units do not fit into two dimensions with a low stress or if they do but the configuration is not elongated and linear, then there is more than one major factor underlying variation among the entities and it is not sensible to attempt a seriation (Cowgill 1972:397; Kendall 1971:223).

MDS Process

The first step toward producing a MDS plot of the Pee Dee assemblages was the construction of an abundance matrix with rows that represent pottery types and columns that represent assemblages. The subset of types used (Tables 2.4 and 2.5) were those that I thought were most chronologically sensitive based partially on ceramic chronologies from adjacent regions, but more importantly on my familiarity with the assemblages based on a preliminary analysis of pottery from the stratified layers of the mound and from much trial and error in seriating different assemblages based on various combinations of types and

Table 2.4. Counts of select surface treatments used for multidimensional scaling.

Context	Large	Wide		Fine		Wide			Total	
	Check Stamped	Complicated Stamped	Complicated Stamped	Cord marked	Cord marked	Burnished Plain	Simple Stamped	Textile Impressed		
160-170L40/Pit	3	14	10	2	-	18	6	1	-	54
Feature 13	1	31	36	-	-	38	13	8	5	132
Feature 30	-	14	3	-	-	18	17	-	2	54
Feature 19	2	20	2	-	-	30	-	-	6	60
Level X	-	80	-	1	-	78	4	-	14	177
Leak	-	38	-	-	-	23	2	-	4	67
Feature 16	-	40	-	1	-	13	3	-	15	72
Payne	-	35	-	6	-	35	-	-	12	88
Level A	-	162	-	-	2	73	-	-	10	247
90L70/Pit 10	-	29	-	2	-	10	1	-	-	42
Teal	-	154	-	90	36	69	8	-	3	360
Total	6	617	51	102	38	405	54	9	71	1353

Table 2.5. Percentages used for multidimensional scaling.

Context	Large	Wide		Fine		Wide			
	Check Stamped	Complicated Stamped	Complicated Stamped	Cord marked	Cord marked	Burnished Plain	Simple Stamped	Textile Impressed	
160-170L40/Pit	5.6	25.9	18.5	3.7	-	33.3	11.1	1.9	-
Feature 13	0.8	23.5	27.3	-	-	28.8	9.8	6.1	3.8
Feature 30	-	25.9	5.6	-	-	33.3	31.5	-	3.7
Feature 19	3.3	33.3	3.3	-	-	50.0	-	-	10.0
Level X	-	45.2	-	0.6	-	44.1	2.3	-	7.9
Leak	-	56.7	-	-	-	34.3	3.0	-	6.0
Feature 16	-	55.6	-	1.4	-	18.1	4.2	-	20.8
Payne	-	39.8	-	6.8	-	39.8	-	-	13.6
Level A	-	65.6	-	-	0.8	29.6	-	-	4.0
90L70/Pit 10	-	69.0	-	4.8	-	23.8	2.4	-	-
Teal	-	42.8	-	25.0	10.0	19.2	2.2	-	0.8

modes. Following DeBoer et al. (1996:26), to imply that the local sequence for Town Creek was wholly “discovered” would be misleading.

The abundance matrix used for the MDS seriation includes only identifiable surface treatments (i.e., it excludes sherds classified as stamped and unidentifiable) because it did not seem that my inability to classify particular sherds would be of chronological significance. Surface treatments represented by fewer than five sherds were excluded because earlier seriations showed them to contribute more confusion than resolution. The individual types of curvilinear and rectilinear complicated stamped as well as wide curvilinear and wide rectilinear complicated stamped were collapsed into complicated stamped and wide complicated stamped categories, respectively, because pilot seriations showed these more inclusive categories produced more elegant solutions. The percentages used in the abundance matrix are based on counts divided by the total number of sherds per context as used in the seriation—not the total number of sherds per context as excavated. Once again, this was a decision based on the clarity of the plots produced by the different data sets. The city-block metric, which measures differences among cases by summing the absolute differences between each of their variables, was used to construct a dissimilarity matrix of coefficients that express the relationships between cases (Shennan 1988:225). This dissimilarity matrix was then used to produce a MDS plot.

The first plot produced only contains assemblages from Town Creek (Figure 2.16). Based on information discussed later in this chapter, it is likely that the Sq. 90L70-Pit 10 assemblage is oldest and the Feature 13 assemblage is most recent. The curvilinear distribution of points is a common pattern in MDS plots (DeBoer et al. 1996:266; Drennan 1976:293; Kendall 1971:227). The stress of this configuration is very low at 0.04. The

Configuration

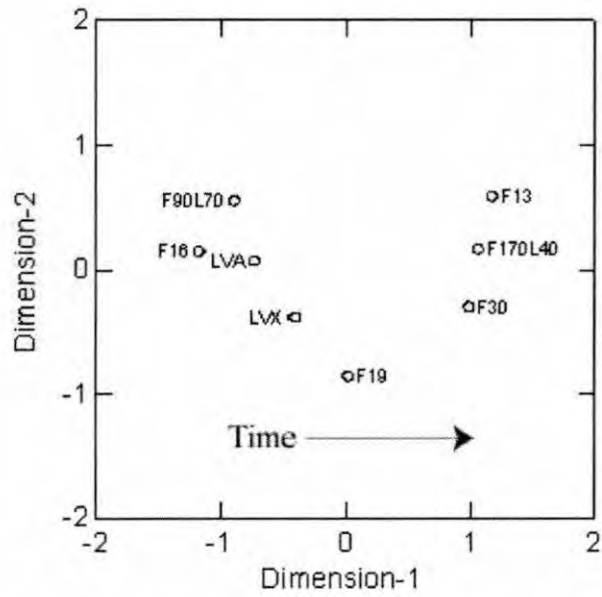


Figure 2.16. Multidimensional scaling plot of Town Creek assemblages.

distribution of assemblages in this MDS plot can be characterized as consisting of two clusters and an isolated point. From the earliest to the most recent, these are a cluster consisting of Sq. 90L70-Pit 10, Level A, Feature 16, and Level X; the isolated point of Feature 19; and a cluster consisting of Feature 30, Sq. 170L140/Pit, and Feature 13. The second MDS plot is based on the same data from Town Creek but with the addition of assemblages from the Teal, Leak, and Payne sites (Figure 2.17). The distribution of points in this plot is also curvilinear. This configuration also has a low stress at 0.07. The distribution in the second MDS plot can be characterized as consisting of two clusters and two isolated points. From the earliest to the most recent, these are the Teal site; a cluster consisting of Sq. 90L70-Pit 10, Level A, Feature 16, Leak, Level X, and Payne; the isolated point of Feature 19; and a cluster consisting of Feature 30, Sq. 170L140/Pit, and Feature 13.

An examination of the percentages of types in the assemblages indicates the patterns in the data on which the MDS plots are based. One major trend is the decrease in complicated stamped pottery over time. Complementary to this is an increase in plain wares through time (Figure 2.18). The early end of the sequence is marked by a relatively high proportion of cordmarking and the presence of fine cordmarking. The later end of the sequence is marked by surface treatments with larger elements, such as large check stamped, wide complicated stamped, and large simple stamped.

Seriation based on Rim Modes

The assemblages were also seriated based on an incidence matrix (see Marquardt 1982:409) which indicated the presence or absence of certain rim modes. These assemblages were ordered by hand based on the Concentration Principle which states that arrangements

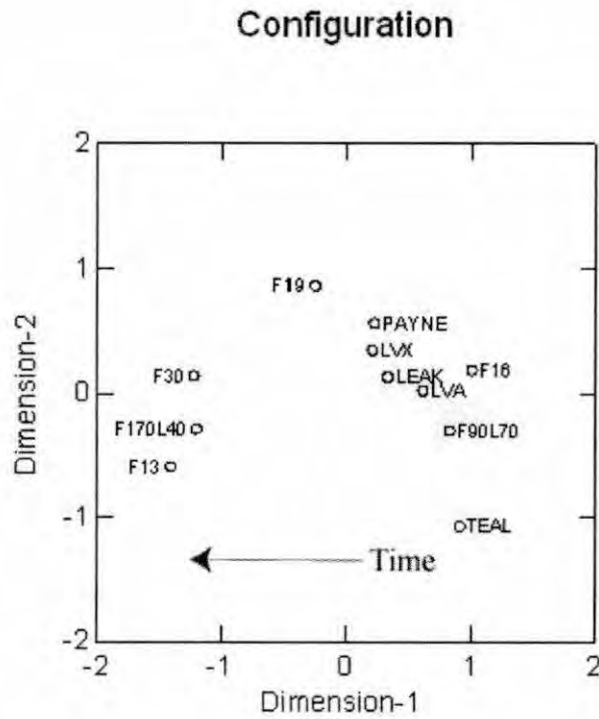


Figure 2.17. Multidimensional scaling plot of all Pee Dee assemblages.

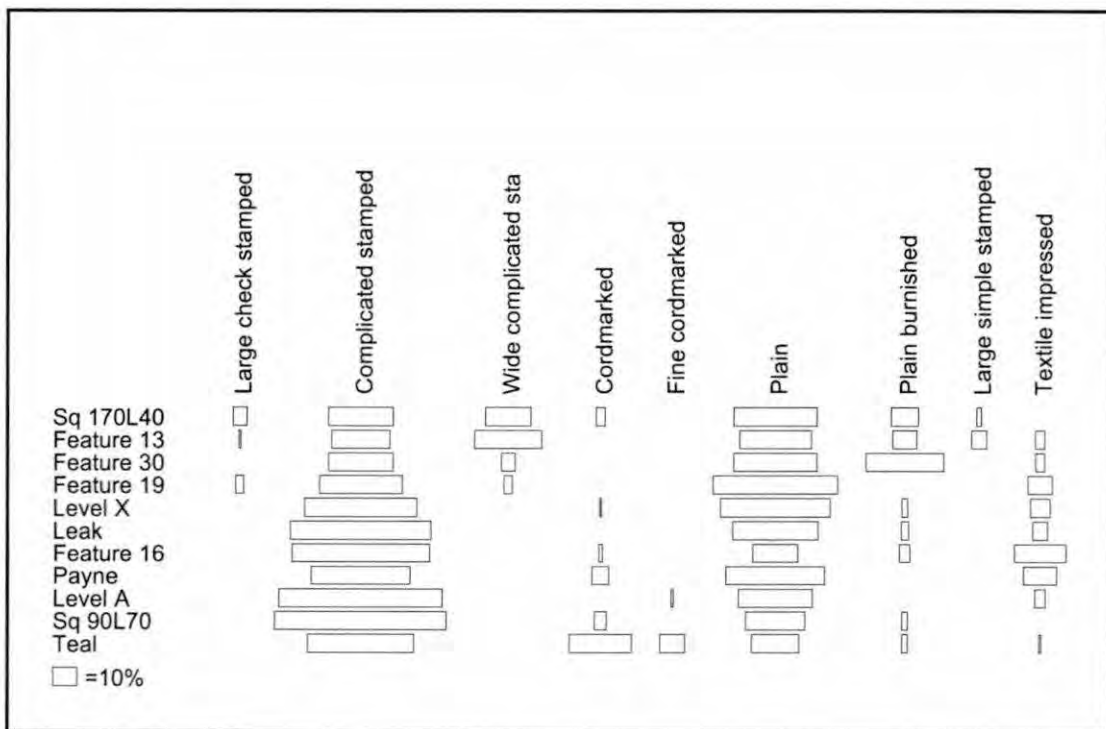


Figure 2.18. Ford seriation graph based on the percentages used for multidimensional scaling.

which reduce the ranges of varieties are to be preferred to those which do not (Kendall in Doran and Hodson 1975:276). The best seriation is one that most closely brings the X's together in one group in each column (Cowgill 1972:389; Marquardt 1982:410). The incidence seriation of rim modes (Table 2.6) produced an order that was very similar to that of the MDS plot. As was the case with the MDS plot, the incidence seriation based on rim modes placed Teal at one end and Feature 13 and Sq. 170L40/Pit at the other. Sq. 90L70-Pit 10 was not included in the rim mode seriation because it only contained plain rims. The incidence seriation can be divided into segments based on the appearance of particular rim modes. Segment 1 is based on the presence of top-thickened rims and the small punctated mode, Segment 2 on rosettes, Segment 3 on punctated strips, and Segment 4 on notched strips, the large punctated mode, and folded rim modes. One can see, by the fact that I emphasized the importance of some modes while ignoring the appearance of others (e.g., pellets and nodes), that defining the boundary of segments was somewhat arbitrary (see Steponaitis 1983:90).

Seriation based on Rim Modes and Minority Surface Treatments

The assemblages also were ordered in another incidence seriation that included rim modes in addition to select minority surface treatments. The rim modes and surface treatments used were not present in every assemblage, but were present in more than one. Also, they appeared in low frequencies when present, never more than about 10% of an assemblage. Sq. 90L70-Pit 10 was not included because it did not contain any of the types or modes on which this seriation is based. The order produced by this seriation is consistent with the other two (Table 2.7). It places Teal at one end opposite Sq. 170L40/Pit with the

Table 2.6. Incidence seriation based on rim modes.

Context	Segment	Top Thickened	Small Punctations	Rosettes	Pellets	Punctated Strips	Nodes	Folded-and-Fluted	Notched Strips	Large Punctations	Folded
Feature 13				X	X	X	X		X	X	X
160-170L40/Pit	4		X	X	X	X		X	X	X	X
Feature 30				X	X	X	X	X			
Feature 19	3		X		X	X					
Level X			X	X	X						
Leak				X	X						
Feature 16	2			X							
Payne		X	X								
Level A		X	X								
Teal	1	X	X								

Table 2.7. Incidence seriation based on select surface treatments and rim modes.

Context	Segment	Fine Cordmarked	Top Thickened Rims	Fabric Marked	Rosettes	Pellets	Large Check Stamped	Punctated Strips	Wide Complicated St.	Nodes	Large Simple St.	Folded Rims	Large Punctations	Notched Strips
160-170L40/Pit					X	X	X	X	X		X	X	X	X
Feature 13	4				X	X	X	X	X	X		X	X	X
Feature 30					X	X		X	X	X				
Feature 19	3			X		X	X	X	X					
Level X				X	X	X								
Leak					X	X								
Feature 16	2				X									
Payne			X	X										
Level A		X	X	X										
Teal	1	X	X	X										

remaining assemblages between them. This seriation can also be divided into four segments. Segment 1 includes assemblages with top-thickened rims, fine cordmarking, and fabric marking. Segment 2 is based on the appearance of rosettes and pellets as well as the disappearance of top thickening and fine cordmarking. Segment 3 is marked by the appearance of punctated rim strips as well as wide varieties of complicated stamping and large check stamping. Segment 4 includes the appearance of large simple stamping as well as folded, notched strip, and large punctated rim treatments.

Comparing the Seriations

In this section, the sequence produced by MDS is compared to that produced by the two incidence seriations in order to abstract as a chronology the order that is common to them (see Dunnell 1970:316). It is important to remember that the exact position of any one assemblage within a seriation is not critical to this process. Assemblages should not be thought of as having been placed in their "true" position or the only position possible, but instead as in the best possible position based on the data at hand (see Steponaitis 1983:88). The data used here are less than ideal. Assemblages from different contexts could have been subjected to different formation processes, general levels from the mound have a high probability of being mixed, and data from all excavated contexts from Leak, Teal, and Payne were analytically combined at the individual site level for analysis. Thus, emphasis should not be placed on the position of individual assemblages but rather on general trends that will allow the definition of a sequence of ceramic change. Rather than talk about the position of individual assemblages, it will be more productive to divide the sequence of each seriation into segments and talk about them as the aggregate of their constituent assemblages.

Ceramic Groups

All three seriations are in agreement in placing Teal at one end and Feature 13 and Sq. 170L40/Pit at the other. It is the order and grouping of the intervening assemblages that needs to be reconciled. In this section, arguments are made for grouping assemblages based on information from all of the seriations.

Group 1. This group consists of the Teal assemblage which was placed at one end of the order in each of the seriations. While one could argue from both incidence seriations that Level A and Teal are similar enough to be in a single group, I believe that the separation of Teal from all other assemblages in the MDS plot—based on its relatively high percentages of cordmarking and fine cordmarking—indicates it should be in its own group (Figure 2.19).

Group 2. The bulk of the assemblages in the seriation are included in this group. It incorporates the large cluster and one isolated point from the MDS plot and segments 2 and 3 from the incidence seriations. This group can be divided into two subgroups based primarily on the incidence seriation.

Group 2a. This group consists of the assemblages from Sq. 90L70-Pit 10, Level A, Feature 16, and the Payne site. It could be argued that the presence of only plain rims in Sq. 90L70-Pit 10 means that it should be placed before Teal in the incidence seriation. Based on the placement in the MDS plot of Sq. 90L70-Pit 10 close to a number of other assemblages and some distance from Teal, it is more likely that Sq. 90L70-Pit 10 should be placed in the group that follows Teal. Level A, Feature 16, Payne, and Sq. 90L70-Pit 10 are placed together in this group because they do not contain the variety of rim appliquéés seen in other assemblages. Also, with the exception of the Payne site, similarities among the assemblages

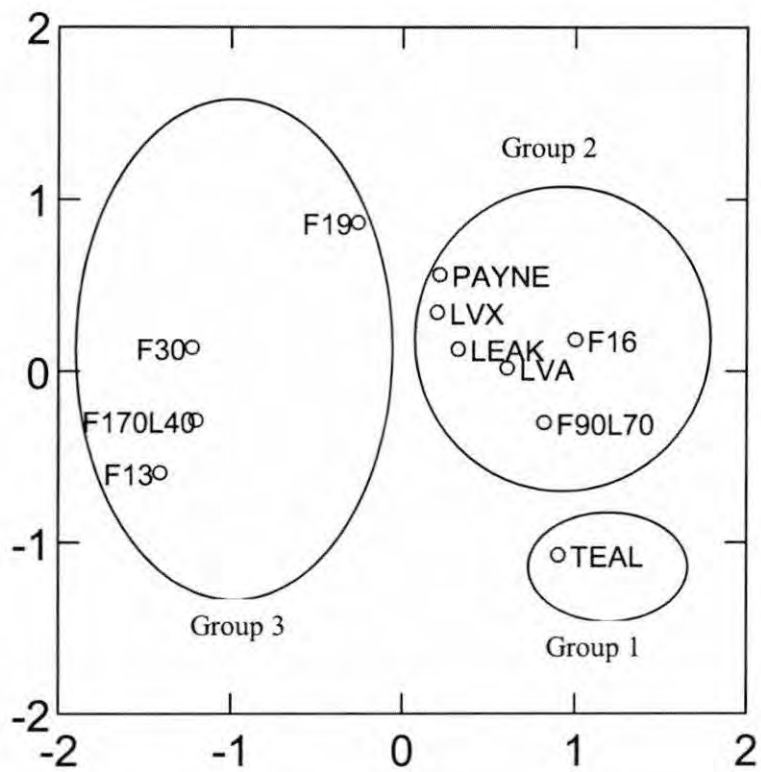


Figure 2.19. Multidimensional scaling plot of all Pee Dee assemblages showing ceramic groups.

are indicated in the MDS plot by the fact that they are located near each other on the right side of the large cluster of points constituting Group 2.

Group 2b. The assemblages from the Leak site and Level X from the mound at Town Creek are placed in this group. These two assemblages are located close to each other on the MDS plot. Their assemblages of rim appendages include both rosettes and pellets, but punctated strips are absent.

Group 3. This group consists of the assemblages from Feature 19, Feature 30, Sq. 170L40/Pit, and Feature 13. All three seriations agree in placing these assemblages in the second half of the distribution. This group was subdivided based on the incidence seriations.

Group 3a. The assemblages from Feature 19 and Feature 30 are placed in this group. It is marked in the incidence seriations by the appearance of punctated strips, wide complicated stamping, and large check stamping, but also by the absence of large simple stamping, notched strips, large punctations, and folded rims. These two assemblages are widely separated on the MDS plot and Feature 19 could arguably go with Group 2 based on those plots. However, I feel that the appearance of punctated rim strips and their similarity to subsequent notched rim strips was important enough to place both Feature 19 and Feature 30 in Group 3.

Group 3b. This group consists of the assemblages from Sq. 170L40/Pit and Feature 13. These two are distinguished based on the presence of notched strips, large punctations, folded rims, and large simple stamping.

Corroborating the Sequence

In this section, the proposed ceramic sequence based on the three seriations is assessed and corroborated in several ways which indicate that there is chronological significance to the ordering produced by the seriations. Group 1 appears to be the oldest, subgroups 2a and 2b come next, and subgroups 3a and 3b are the most recent.

Stratigraphic Relationships

The stratigraphic relationships among contexts are consistent with the ordering produced by the seriations. Level A (Group 2a) is a premound midden at Town Creek located stratigraphically below Level X (Group 2b) which is a mound-flank midden. Additionally, Feature 16, also of Group 2a, is a pit superimposed by a palisade line that runs beneath the mound, placing it stratigraphically below Level X as well.

Radiocarbon Dates

Radiocarbon dates from three seriated contexts at Town Creek are consistent with the sequence of assemblages. Level A and Sq. 170L40/Pit were dated directly. While Level X was not directly dated, it probably represents trash from mound-summit activities and several samples from mound-summit buildings were dated. The seriations put these contexts in the order of Level A being the oldest, then Level X, and finally Sq. 170L40/Pit. The uncorrected radiocarbon dates of A.D. 1205 ± 140 for Level A; A.D. 1350 ± 50 , 1280 ± 40 and 1350 ± 140 for the mound summit (Reid 1967:62); and A.D. 1650 ± 60^3 for Sq. 170L40/Pit are consistent with the seriations. While a number of radiocarbon dates were obtained by Oliver

(1992) from the Leak and Teal sites, they span a large amount of time and are not useful in assessing the seriation presented here.

Pottery from Stratified Deposits

Stratified deposits from the mound and the riverbank midden at Town Creek are also used to assess the sequence produced by the seriations. The riverbank midden shows a decrease in plainwares from bottom to top (Table 2.8). These deposits also show, in a gross sense, the changes in rim modes seen in the ceramic sequence (Table 2.9). The rims in the lower levels of the riverbank midden are mostly plain, but with a few rosettes, while rim modes from the upper levels include plain, rosettes, and punctated as well as notched strips. In the mound, Reid (1967:57) found that plainwares increased in popularity through time. He also found only plain rims in the premound levels with rosettes and rim strips appearing in later levels (Reid 1967:58-59). My analysis of pottery from the baseline and L10 units, two rows of excavation squares that crosscut the mound and sampled most of its stratigraphy, also showed that premound deposits contained only plain rims, the lower parts of the mound had rims with nodes and pellets, and the upper parts of the mound had rims with punctated strips and notched strips (Table 2.10).

Regional Comparisons

The Town Creek ceramic sequence is consistent with those defined for early and late occupations at the Mulberry site located on the Wateree River in South Carolina (Caldwell 1974; Stuart 1975). Temporal changes in surface treatments at Mulberry included an increase in plainwares (Caldwell 1974:95; Stuart 1975:105). Rim mode patterns include the

Table 2.8. Surface treatment counts and percentages from select riverbank-midden units.

Excavation Levels	Non-Pee Dee	Check Stamped	Cob Impressed	Curv. Comp. Stamped	Rect. Comp. St.	Cordmarked	Fabric Marked	Net Impressed	Plain	Burnished Plain	Simple Stamped	Stamped	Textile Impressed	Unidentified	Total
Counts															
Levels 1-4	1	-	-	61	23	-	1	-	88	12	5	36	33	9	269
Levels 6-10	28	-	1	154	42	-	-	-	78	23	20	38	25	19	428
Percentages															
Levels 1-4	0.4	-	-	22.7	8.6	-	0.4	-	32.7	4.5	1.9	13.4	12.3	3.3	
Levels 6-10	6.5	-	0.2	36.0	9.8	-	-	-	18.2	5.4	4.7	8.9	5.8	4.4	

Note: Counts are based on the riverbank units whose excavation levels could be correlated with depositional layers based on field drawings. These units are all of those in the -95R line and Sq. -90R105.

Table 2.9. Pee Dee rim treatment counts and percentages from select riverbank-midden units.

Excavation Levels	Small			Notched		Punctated		Total
	Plain	Punctated	Nodes	Pellets	Rosettes	Strip	Strip	
Counts								
Levels 1-4	42	3	1	1	3	2	2	54
Levels 6-10	62	-	-	-	2	-	-	64
Percentages								
Levels 1-4	77.8	5.6	1.9	1.9	5.6	3.7	3.7	
Levels 6-10	96.9	-	-	-	3.1	-	-	

Note: Counts are based on the riverbank units whose excavation levels could be correlated with depositional layers based on field drawings. These units are all of those in the -95R line and Sq. -90R105.

Table 2.10. Rim modes in the baseline and L10 units from the mound.

Context	Top		Small		Lug		Punctated		Notched		Total
	Plain	Thickened	Punctated	Rosettes	Pellets	s	Nodes	Strip	Strip		
Disturbed yellow layer	81	-	2	-	-	-	-	3	1	87	
Undisturbed yellow layer	30	-	3	-	4	-	-	-	-	37	
Mound topsoil	139	-	7	1	2	1	-	3	1	154	
Townhouse I	32	-	-	-	-	-	1	-	-	33	
Level X	50	-	2	1	4	-	-	-	-	57	
Moundfill	14	-	-	-	-	-	-	-	-	14	
Premound embankment	3	-	-	-	-	-	-	-	-	3	
Level A	126	1	1	-	-	-	-	-	-	128	
Total	475	1	15	2	10	1	1	6	2	513	

presence of small punctations, rosettes, and riveted nodes earlier and notched strips later (Caldwell 1974:95). Similar trends in Irene pottery from the Georgia and South Carolina coast are also evident. There is an increase in the width of ridges and grooves of complicated stamped patterns later in the sequence (DePratter 1991:190). An increase in the incidence of elaborated rim treatments is noted at the Irene site (Caldwell and McCann 1941:42). The sequence of change is from punctated nodes to punctated or notched rim strips followed by folded rims (Braley 1990:103). Irene pottery shows plain rims, nodes, rosettes, and plain strips earlier in the sequence, followed by notched strips later (Pearson 1984:22; Saunders 2000:42). Rim strips are replaced later in the sequence by hollow punctations on plain or folded rims (Cook 1986:5).

GROUPS AS CERAMIC PHASES

Oliver (1992) proposed a sequence of phases for the Mississippian period in the vicinity of Town Creek based on his excavations at the Leak and Teal sites. These Mississippian phases are Teal (A.D. 950-1200), Town Creek (A.D. 1200-1400), and Leak (A.D. 1400-1600), which largely correspond to my ceramic groups 1, 2, and 3 respectively. In this section, the assemblages that constitute each ceramic group are combined to define a model ceramic assemblage for each phase (Tables 2.11, 2.12, and 2.13). These model assemblages are related to Oliver's sequence and the phases he defined are modified. Once defined, ceramic content associated with each phase is related to other South Appalachian Mississippian phases. The temporal spans presented for the phases differ from those in Oliver's (1992) original definitions (Table 2.14). The new time periods are based on fifteen radiocarbon dates (Table 2.15) from the Leak, Payne, Teal, and Town Creek sites (Eastman

Table 2.11. Surface treatments by phase.

Phase	Brushed	Small Check St.	Large Check St.	Cob Impressed	Curv. Comp. St.	Wide Curv. Comp. St.	Rect. Comp. St.	Wide Rect. Comp. St.	Cordmarked	Fine Cordmarked	Fabric Marked	Net Impressed	Plain	Burnished Plain	Simple Stamped	Wide Simple St.	Stamped	Textile Impressed	Unidentified	Total
Counts																				
Leak (all)	1	2	6	-	59	30	20	21	2	-	1	3	104	36	3	9	73	13	35	418
Late	1	1	4	-	32	27	13	19	2	-	-	3	56	19	1	9	49	5	25	266
Early	-	1	2	-	27	3	7	2	-	-	1	-	48	17	2	-	24	8	10	152
Town Creek (all)	-	8	-	-	292	-	92	-	11	1	14	4	232	10	14	-	89	55	58	880
Late	-	-	-	-	86	-	32	-	1	-	2	-	101	6	-	-	24	18	10	280
Early	-	8	-	-	206	-	60	-	10	1	12	4	131	4	14	-	65	37	48	600
Teal	-	1	-	1	109	-	45	-	90	36	1	-	69	8	8	-	46	3	23	440
Percentages																				
Leak (all)	0.2	0.5	1.4	-	14.1	7.2	4.8	5.0	0.5	-	0.2	0.7	24.9	8.6	0.7	2.2	17.5	3.1	8.4	
Late	0.4	0.4	1.5	-	12.0	-	4.9	7.1	0.8	-	-	1.1	21.1	7.1	0.4	3.4	18.4	1.9	9.4	
Early	-	0.7	1.3	-	17.8	2.0	4.6	1.3	-	-	0.7	-	31.6	11.2	1.3	-	15.8	5.3	6.6	
Town Creek (all)	-	0.9	-	-	33.2	-	10.5	-	1.3	0.1	1.6	0.5	26.4	1.1	1.6	-	10.1	6.3	6.6	
Late	-	-	-	-	30.7	-	11.4	-	0.4	-	0.7	-	36.1	2.1	-	-	8.6	6.4	3.6	
Early	-	1.3	-	-	34.3	-	10.0	-	1.7	0.2	2.0	0.7	21.8	0.7	2.3	-	10.8	6.2	8.0	
Teal	-	0.2	-	0.2	24.8	-	10.2	-	20.5	8.2	0.2	-	15.7	1.8	1.8	-	10.5	0.7	5.2	

Table 2.12. Rim modes by phase.

Phase	Plain	Top Thickened	Small Punctated	Rosettes	Ext. Thickened	Pellets	Punctated Strip	Notched Strip	Large Punctated	Folded and Punct.	Folded and Fluted	Nodes	Totals
Leak (all)	154	-	1	4	1	8	13	6	3	14	1	5	210
Late	126	-	1	4	1	4	6	6	2	14	-	4	168
Early	28	-	-	-	-	4	7	-	1	-	1	1	42
Town Creek (all)	394	3	8	6	1	5	-	-	-	-	-	-	429
Late	79	-	2	4	-	5	-	-	-	-	-	-	91
Early	315	3	6	2	1	-	-	-	-	-	-	-	338
Teal	138	4	1	-	-	-	-	-	-	-	-	-	146

Table 2.13. Complicated stamped patterns by phase.

Phase	Arc Angle	Two Bar Diamond	Herring bone	Concentric Circles	Filfot	Quartered Circles	Line Block	Total
Leak (all)	-	-	-	4	7	-	1	12
Late	-	-	-	3	2	-	1	6
Early	-	-	-	1	5	-	-	6
Town Creek (all)	7	16	18	25	28	7	2	103
Late	1	7	8	8	13	1	1	39
Early	6	9	10	17	15	6	1	64
Teal	3	1	5	6	3	-	-	18
Total	17	33	41	64	73	14	6	248

Table 2.14. Calibrated and uncalibrated dates (A.D.) for phases.

Phase	Calibrated	Uncalibrated	Oliver's (1995) Original Dates
Leak	1300-1500	1300-1550	1400-1600
Late	1400-1550	1450-1550	
Early	1300-1400	1300-1450	
Town Creek	1150-1300	1050-1300	1200-1400
Late	1250-1300	1250-1300	
Early	1150-1250	1050-1250	
Teal	1000-1150	900-1050	950-1200

Table 2.15. Mississippian period radiocarbon dates from the Town Creek, Leak, Payne, and Teal sites.

Sample Code	Site	Context	Age (BP)	Standard Deviation	Uncalibrated Intercept	Uncalibrated 1-Sigma	Calibrated 1-Sigma	Phase Association
Beta-184061	Town Creek	Sq. 170L40/Pit	300	60	1650	1590-1710	1496-1651	Late Leak
Uga-5645	Leak	Fea. 1	525	65	1425	1360-1490	1319-1443	Early Leak
FSU-185/FSU-175	Town Creek	Townhouse I	595	50	1355	1305-1405	1305-1405	Early Leak
Uga-5644	Leak	Fea. 1	485	175	1465	1290-1640	1297-1632	Early Leak
FSU-186/FSU-176	Town Creek	Townhouse II	670	40	1280	1240-1320	1279-1386	Early Leak
FSU-145/FSU-154	Town Creek	Townhouse II	600	140	1350	1210-1490	1262-1448	Early Leak
Uga-6050	Leak	Fea. 4	680	50	1270	1220-1320	1274-1387	Late Town Creek
Beta-201468	Town Creek	St. 4a	820	40	1130	1090-1170	1187-1261	Early Town Creek
Beta-18411	Payne	Fea.	820	70	1130	1060-1200	1158-1274	Early Town Creek
FSU-184/FSU-174	Town Creek	Lev. A	745	140	1205	1065-1345	1155-1397	Early Town Creek
Beta-18412	Payne	Fea.	860	70	1090	1020-1160	1051-1255	Early Town Creek
Beta-18410	Payne	Fea.	910	60	1040	980-1100	1040-1173	Early Town Creek
Uga-6047	Teal	Fea. 47	950	50	1000	950-1050	1025-1154	Teal
Uga-6048	Teal	Fea. 49	950	50	1000	950-1050	1025-1154	Teal
Uga-6046	Teal	Fea. 46	1000	55	950	895-1005	987-1150	Teal

1994; Mountjoy 1989; Oliver 1992; Reid 1967). These spans are approximations of the areas where the ranges of the dates associated with assemblages from each phase overlap (Figures 2.20 and 2.21). The CALIB Radiocarbon Calibration (Stuiver et al. 2005) program was used to calibrate these dates.

Teal Phase (A.D. 900-1050; cal A.D. 1000-1150)

While complicated stamping is the most common surface treatment, the Teal phase is distinctive because cordmarking (cordmarked and fine cordmarked) is its second most common surface treatment (Figure 2.22). In contrast, cordmarking constitutes only about one percent of the assemblage in subsequent phases. Cob impressed appears as a minority surface treatment in this phase, but is absent later. This phase also has the lowest percentage of plain pottery in the sequence. This is especially the case when only those types used in the MDS seriation are considered. Wide surface treatments (e.g., large check stamped, large simple stamped, and wide complicated stamped) are absent. Rims are mostly plain, but top-thickened rim modes occur on fine cordmarked sherds. Complicated stamped patterns include arc angle, concentric circles, filfot, herringbone, and split diamond.

Dating

Oliver (1992:Figure 40) obtained 16 radiocarbon dates from the Teal site, but they are of limited utility for dating the Teal phase because their intercepts range from the tenth through sixteenth centuries. It is unclear as to why this might be the case. The Teal sherds that I analyzed contained only top-thickened and plain rims, suggesting that other Pee Dee components are not represented or that they are relatively discrete if present. It is possible

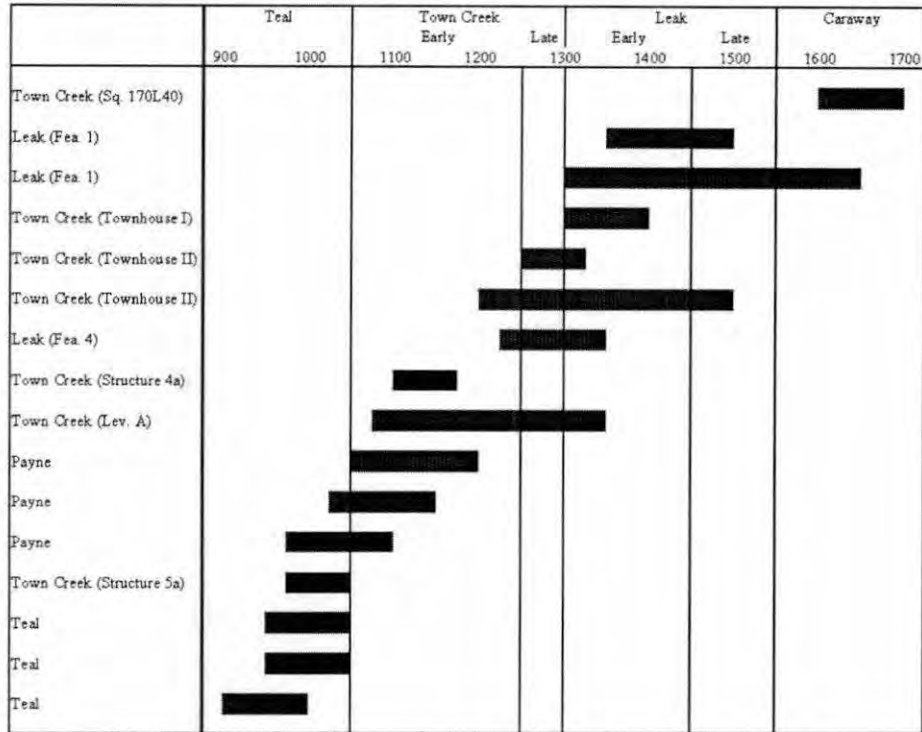


Figure 2.20. One sigma range for uncalibrated Mississippian Period radiocarbon dates.

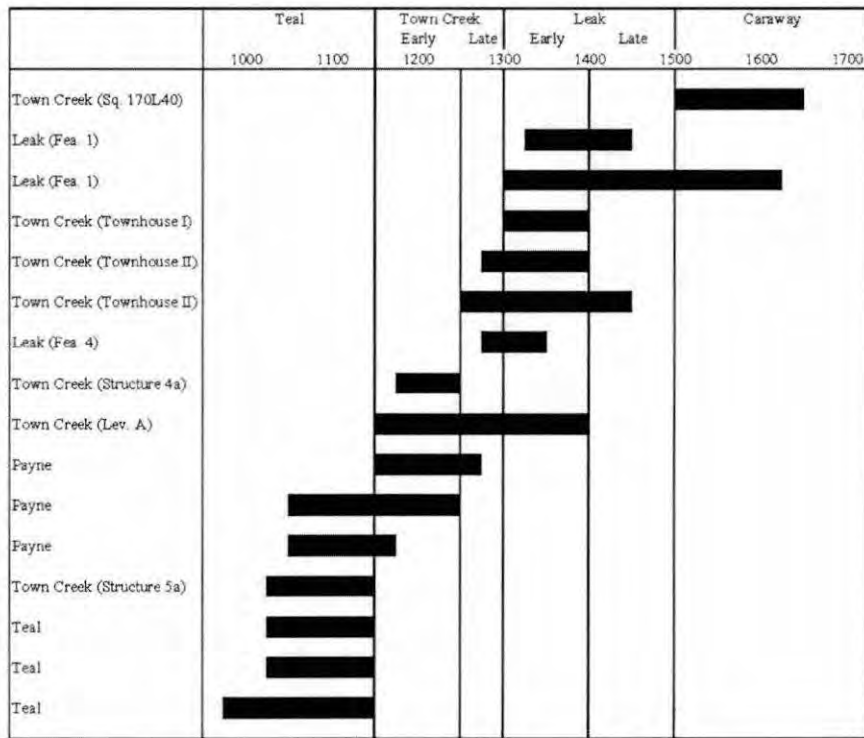


Figure 2.21. One sigma range for calibrated Mississippian Period radiocarbon dates.

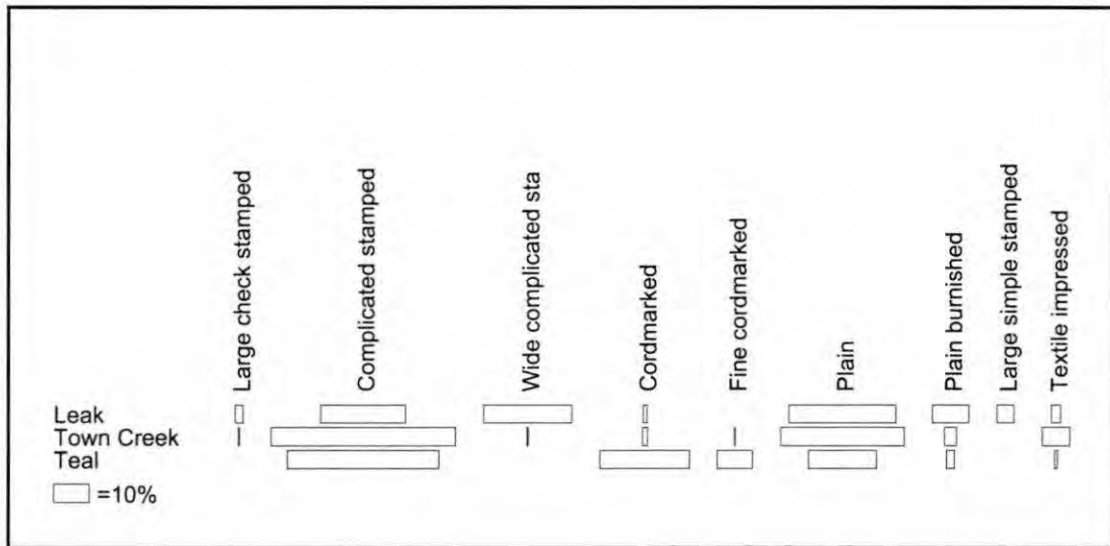


Figure 2.22. Ford seriation graph of select surface treatments (percentages) by phase.

that Oliver (1992) excavated a portion of the site in which multiple components were represented, although this cannot be assessed from the ceramic data he presents. I decided to use three of the radiocarbon dates obtained by Oliver (1992) from features that contained types (e.g., fine cordmarked) and rim modes (e.g., top thickened) consistent with the pottery I analyzed (Oliver 1992:199-210). The dates from these three features are A.D. 950 \pm 50 (cal. A.D. 987-1150), 1000 \pm 50, and 1000 \pm 50 (cal. A.D. 1025-1154) (Oliver 1992:209).

Regional Comparisons

Several Teal-phase diagnostics appear in assemblages at other sites across the region. The Savannah II phase (A.D. 1100-1200) in the lower Savannah River sequence contains Savannah Fine Cordmarked pottery, and contemporaneous piedmont sites contain cob impressing (Rudolph and Hally 1985:459-460). Simple stamping with stamped lips, probably the same as my fine cordmarked, is common during the Santee II phase along the Lower Santee River which ends around A.D. 1200 (Anderson 1990:59). The split diamond, filfot, and lineblock stamp patterns are all present in the Etowah III phase of northwest Georgia (Rudolph and Hally 1985:268) which dates to around A.D. 1100 (Hally and Rudolph 1986:Table 2).

Town Creek Phase (A.D. 1050-1300; cal A.D. 1150-1300)

Overall in the Town Creek phase, complicated stamping dominates, textile impressing is at the height of its popularity, and wide surface treatments appear for the first time. The quartered circles and lineblock stamp patterns first appear, with the former apparently dating entirely to this phase because it is absent during the subsequent Leak

phase. The Town Creek phase can be divided into an early and late segment—ceramic groups 2a and 2b, respectively—based primarily on the presence of different rim modes. The early Town Creek phase (A.D. 1050-1250, cal A.D. 1150-1250) contains primarily plain rims, but crude rosettes—as found in Feature 16/Mg2 (Figure 2.23)—may be present in small amounts. The late Town Creek phase (A.D. 1250-1300, cal A.D. 1250-1300) is marked by the presence of pellets and rosettes as well as the disappearance of top-thickened rims and fine cordmarking.

Dating

In the 1960s, several radiocarbon dates were obtained from mound contexts at Town Creek. One sample that can be attributed to the early Town Creek phase came from Level A and produced a date of A.D. 1205 ± 140 (cal A.D. 1155-1397) (Reid 1967:62). Mountjoy (1989) obtained three radiocarbon dates from the Payne site that also are attributable to the early Town Creek phase. The Payne site dates come from a small, cob-filled pit (A.D. 1040 ± 60) (cal. A.D. 1040-1173), a larger pit (A.D. 1130 ± 70) (cal. A.D. 1158-1274), and a large pit possibly associated with a circular structure (A.D. 1090 ± 70) (cal. A.D. 1051-1255) (Mountjoy 1989:15).

One of the three radiocarbon dates obtained by Oliver from the Leak site may be associated with a late Town Creek-phase context, although this is not certain. The excavated materials I analyzed from Leak seem to represent a late Town Creek-phase component, but the presence of a punctated rim strip in surface collections and rim strips in materials reported from the site by Oliver (1992:Table 1) indicate that a subsequent Leak-phase component may be represented as well. Oliver's (1992:209) three dates of A.D. 1270 ± 50

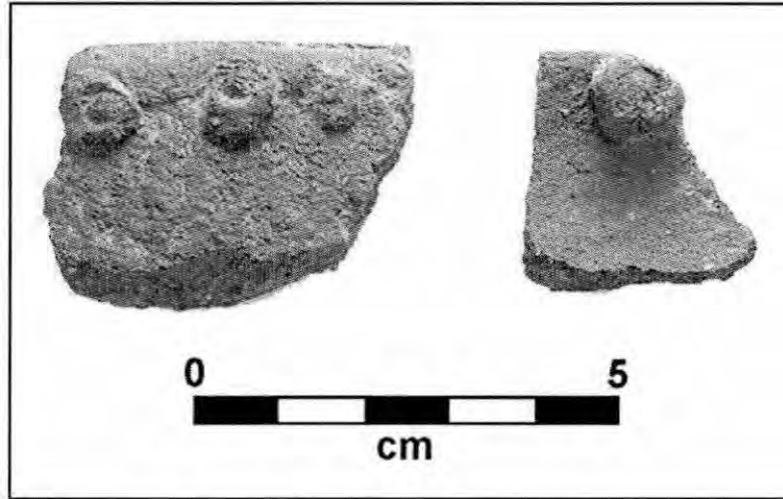


Figure 2.23. Rosettes from Feature 16/Mg2.

(cal. A.D. 1274-1387), 1425 ± 65 (cal. A.D. 1319-1443), and 1465 ± 175 (cal. A.D. 1297-1632) (Oliver 1992:209) presumably are related to these late Town Creek-phase and early Leak-phase components, although I am not certain of this in the absence of Oliver's ceramic data. Assuming that this is the case, I have attributed the earliest of the three dates from the Leak site to the late Town Creek phase and the two later dates to the Leak phase.

Regional Comparisons

The Town Creek phase as proposed here corresponds in ceramic content to the Belmont Neck and Adamson phases (A.D. 1200-1300) of the Wateree River Valley (DePratter and Judge 1986, 1990:56-57). Belmont Neck (A.D. 1200-1250) is similar to the early Town Creek phase because both are dominated by plain rims, but rims with small punctations are also present. Adamson (A.D. 1250-1300) seems to correspond to both the early and late parts of the Town Creek phase based on the predominance of plain rims and the presence of rosettes.

The Town Creek phase also shares some features with Savannah-culture (A.D. 1200-1350) phases of the Georgia Piedmont (Hally and Rudolph 1986:51). Shared types include curvilinear and rectilinear complicated stamped, check stamped, cordmarked, plain, and burnished plain (Hally and Rudolph 1986:Table 7). Shared stamp patterns include concentric circles, filfot, herringbone, split diamond, and quartered circles (Hally and Rudolph 1986:62). Although the Town Creek phase and the Savannah-culture phases generally exhibit the same types and stamp patterns, there is a great deal of variability among these phases regarding percentages of surface treatments (see Hally and Rudolph 1986: Table 7). The Town Creek phase resembles the Wilbanks phase (A.D. 1200-1350) of northwest

Georgia based on the percentages of plainwares and curvilinear complicated stamped in their assemblages (Hally and Langford 1988:Table 11). The Town Creek phase shares essentially the same pottery types with the Beaverdam (A.D. 1200-1300) (Anderson et al. 1986:38; Rudolph and Hally 1985:470) and Hollywood (A.D. 1250-1350) phases of the Savannah River sequence, although the former has a much higher percentage of plainwares (Hally and Rudolph 1986: Table 7) and the latter a much higher percentage of check stamping (Anderson et al. 1986:40). The upper Savannah River Hollywood phase (A.D. 1250-1350) includes punctations and riveted nodes (Anderson et al. 1986:40). A close resemblance between the Hollywood phase and the pottery at Town Creek has been noted (Anderson et al. 1986:41; Reid 1965).

Leak Phase (A.D. 1300-1550; cal A.D. 1300-1500)

Plainwares constitute a relatively high proportion of the assemblage in this phase. Brushing appears for the first time as does large simple stamping. Net impressing is at its most popular as are large check stamping and wide complicated stamping. The early Leak phase is indicated by nodes, punctated strips, and thickened exterior rims as well as the disappearance of the split diamond stamp pattern. Net impressing and wide surface treatments appear for the first time in the early Leak phase. The late Leak phase is marked by the appearance of notched strips, folded rims, and large hollow punctations. The concentric circle, filfot, and lineblock stamp patterns persist while arc angle, herringbone, and quartered circles have dropped out. Although I was able to make a distinction between early and late Leak-phase materials in the seriation, these different diagnostics—as will be discussed in Chapter 3—had similar spatial distributions so that I was unable to use them to

distinguish between early and late portions of the Leak phase in most contexts. Perhaps the similar distributions are the result of chronological proximity. While the introduction of some rim modes postdated the introduction of others, the period of time between their appearances may have been small, especially in an archaeological sense. Based on the low frequency of incising at Town Creek, it is likely that the bulk of the Leak-phase component at the site predates A.D. 1450 (see Hally 1994:145).

Dating

Three dates from Town Creek can be attributed to the Leak phase, based on information to be presented in Chapter 3. These samples came from two superimposed mound summit structures. One sample from the lower structure gave a date of A.D. 1355 ± 50 (cal. A.D. 1305-1405) while two samples from the upper structure gave dates of 1280 ± 40 (cal. A.D. 1279-1386) and 1350 ± 140 (cal. A.D. 1262-1448) (Eastman 1994:10 and 47-48; Reid 1967:62). As discussed previously, it is likely that two dates from the Leak site—A.D. 1425 ± 65 (cal. A.D. 1319-1443) and 1465 ± 175 (cal. A.D. 1297-1632) (Oliver 1992:209)—are also attributable to the Leak phase. A radiocarbon sample from the seriated late Leak-phase feature in square Sq. 170L40/Pit produced a date of A.D. 1650 ± 60 . The one sigma calibrated result is A.D. 1496 to 1651 and the two sigma calibrated result is A.D. 1448 to 1675. While the upper end of the range of these calibrated dates seems too recent, the lower end—which indicates a late fifteenth or sixteenth century date for the late Leak phase—is plausible.

Regional Comparisons

The Wateree Valley Town Creek phase (A.D. 1300-1350) exhibits elements of the Leak phase in that both contain punctated and notched rim strips (DePratter and Judge 1986, 1990:56-57). The absence of incising in the Leak-phase assemblage indicates it generally predates the appearance and profusion of Lamar Incised around A.D. 1450 (Hally 1994:145). The Leak phase is similar to numerous phases of the Early Lamar (A.D. 1350-1450) period in that it has punctated and notched rim strips but lacks incising (Hally 1994:147). The Leak phase may predate or overlap with the early end of the Caraway phase (A.D. 1500-1700), which has been described as “the southern Piedmont’s version of the widespread Lamar style” (Ward and Davis 1999:137). The Caraway phase is similar to the Leak phase as defined here in that plainwares and complicated stamping are most popular and that brushing and net impressing are minority surface treatments (Ward and Davis 1999:137).

The Leak phase also corresponds to the McDowell phase (A.D. 1350-1450) in the Wateree River Valley in that both have wider complicated stamping and notched rim strips (DePratter and Judge 1986, 1990:57). It is important to note that post-1450 assemblages in the Wateree Valley are characterized by an increase in the popularity of incising (DePratter and Judge 1986, 1990; Stuart 1974:107-108), a form of decoration that is poorly represented at Town Creek.⁴ The Leak phase resembles the Early Lamar Irene I and II phases (A.D. 1300-1450) of the Georgia-South Carolina coast based on the presence of similar surface treatments and rim strips, although the general lack of incising at Town Creek would place this assemblage at the earlier end of the Irene I and II date range (DePratter 1984:52). The Leak phase is also comparable to the Early Lamar Rembert (A.D. 1350-1450) phase of the Upper Savannah River sequence in the Georgia piedmont. Similarities include the popularity

of complicated stamping, the increased popularity of specialized rims, the increasing popularity of plainwares, and the fact that Lamar Incised is not common (Anderson et al. 1986:41-42; Rudolph and Hally 1985:456-458).

Pottery excavated from a moundless ceremonial center at the Charles Towne Landing site in South Carolina has been attributed to the Charles Towne pottery series. Surface treatments and rim modes of the Charles Towne series are similar to those found at Town Creek, including curvilinear complicated stamping, small punctations, rim strips, rosettes, and folded rims with punctations (South 2002:225 and Figure 7.3). A radiocarbon sample from Charles Towne Landing produced a date of A.D. 1500 \pm 60 with a calibrated one sigma range of A.D. 1276-1387 (South 2002:227), and this is consistent with the dates attributed to the terminal Town Creek through Leak phases.

ADDITIONAL DIAGNOSTIC ATTRIBUTES

The purpose of the chronology presented here is to recognize and document patterns of change in Town Creek-area ceramics in order to identify those that are diagnostic of a particular span of time. This is partly accomplished through the preceding discussions of the surface treatments, stamp patterns, rim modes, and assemblage attributes associated with each phase. It is these diagnostic ceramic attributes that are used in subsequent chapters to establish a *terminus post quem* for individual contexts, architecture, and groups of burials.

Additionally, there are two ratios that change monotonically through time that may be useful in dating contexts. The first of these is the ratio of decorated sherds to plain sherds that are smaller than 4 cm. This ratio shows a consistent decrease from the Teal through Leak phases (Figure 2.24) (Table 2.16) and reflects the increase in the popularity of

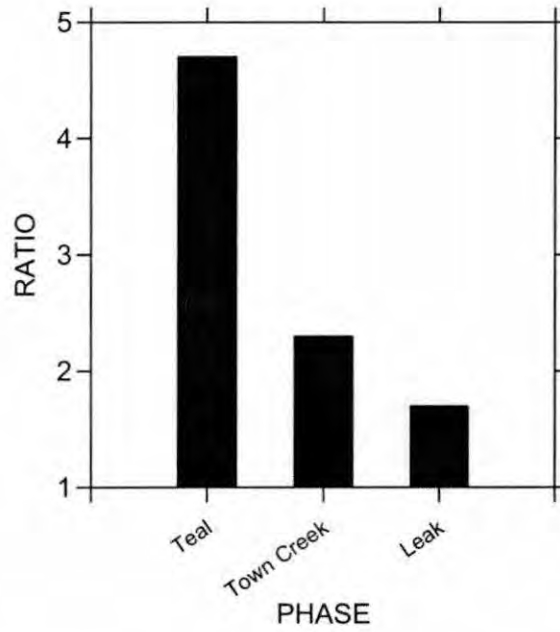


Figure 2.24. Bar chart showing the ratio of decorated to plain small sherds (<4 cm) by phase.

Table 2.16. Decorated and plain small sherds (<4cm) by phase.

Phase	Decorated	Plain	Ratio
Leak	554	329	1.7
Town Creek	2513	1076	2.3
Teal	913	195	4.7

plainwares through time. Counts based only on small sherds were used in this ratio because of their ubiquity across nearly all contexts at Town Creek. The second ratio of chronological significance is that of plain rim sherds to decorated rim sherds. This ratio shows a consistent decrease from the Teal through Leak phases (Figure 2.25) (Table 2.17) and reflects the increasing diversity of rim treatments later in time. The counts used for this ratio include all rim sherds, regardless of size, because rim treatments can be confidently identified even on very small sherds.

REGIONAL COMPARISONS

The Town Creek ceramic chronology proposed here fits comfortably within the South Appalachian Mississippian ceramic tradition (see Ferguson 1971). There are surface treatments and rim modes in the Town Creek-area assemblages that allow us to relate this area—under the rubrics of Etowah, Savannah, and Lamar cultures—to numerous other Mississippian period sites located in the eastern part of the Southeast. While Town Creek ceramics fit comfortably with what is found to the south and west, the distinctions between Town Creek pottery and what is found to the north and east are striking. Detailed chronologies developed for the central and northern piedmont in North Carolina (Ward and Davis 1993, 1999) indicate that these areas, located less than 200 miles from Town Creek, exhibit very different yet contemporaneous ceramic traditions that lack the distinctive rim treatments and complicated stamping found at Town Creek. The ceramic traditions in the Sandhills and Coastal regions of North Carolina to the east are equally distinct from that found at Town Creek (Ward and Davis 1999). The systematic survey of 97,000 acres of the Fort Bragg military reservation, located approximately 40 miles east of Town Creek, has

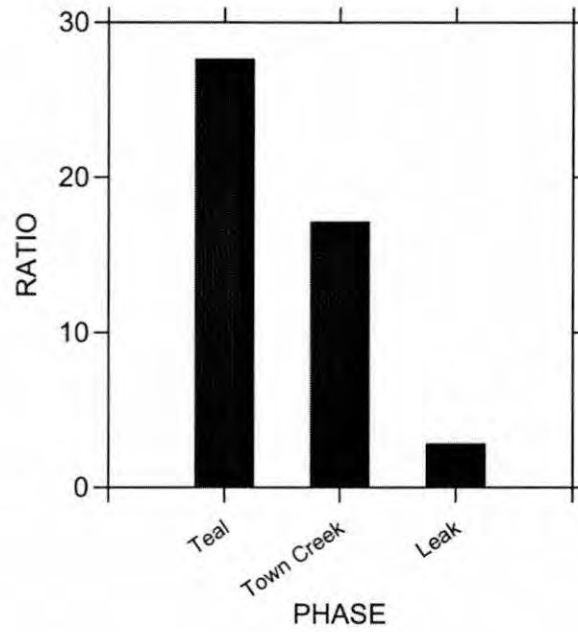


Figure 2.25. Bar chart showing the ratio of plain to decorated rims by phase.

Table 2.17. Plain and decorated rims by phase.

Phase	Plain	Decorated	Ratio
Leak	154	56	2.8
Town Creek	394	23	17.1
Teal	138	5	27.6

produced only a handful of complicated stamped pottery (Joseph Herbert, personal communication 2005; Irwin et al. 1999:82). As Coe (1952) emphasized in his first publication on Pee Dee culture, Town Creek is clearly distinctive in the North Carolina Piedmont, and it is located on the northeasternmost edge of the Mississippian culture area in the Southeast.

Endnotes to Chapter 2

1. Each sherd was assigned to a size class by using a template consisting of nine concentric circles with diameters increasing at 2-cm intervals from 2 to 18 cm.
2. The assemblages selected for seriation represent an attempt to establish as complete a ceramic sequence as possible while avoiding the misleading results of temporally mixed assemblages and small sample sizes. While one should ideally compare assemblages from similar types of contexts to insure that formation processes unrelated to chronology are not responsible for the variation among them, I chose to include different kinds of contexts—as long as they included the minimum of 50 sherds—if they allowed me to construct a more useful ceramic sequence. For example, using both pits and midden layers from Town Creek allowed me to directly relate mound to nonmound contexts at the site. Also, the collections from Teal provided a robust example of a component poorly represented at Town Creek. I attempted to minimize the impact of temporally mixed assemblages for Town Creek by using large pits which presumably were filled rapidly after their use (see Dickens 1985:42-43; Hayden and Cannon 1983:144) and by using field drawings to isolate collections from the mound that came only from one layer. I could not maintain the same standards for Leak, Teal, and Payne, where all excavated contexts were collapsed into a single assemblage. While the final set of assemblages used in the seriations is less than ideal, it results in an order that is consistent across multiple seriation methods and is independently corroborated by stratigraphic relationships, radiocarbon dates, and ceramic chronologies from other regions.
3. 300 ± 60 ; Beta 184061; predominantly wood charcoal with some seeds and nut shell; $\delta^{13}\text{C} = -23.8 \text{ ‰}$.
4. Lamar Incised sherds were recovered at Town Creek (Reid 1967:Plate 14), but there are few of them and none are associated with dated contexts. Of the 33,123 sherds from Town Creek that I have analyzed for this research—27,704 of which are from the Pee Dee series, only 9 could be classified as Lamar Incised. Eight of the Lamar Incised sherds came from the plowzone and one came from a general level in a test pit on the riverbank.

Chapter 3: Architecture

The Mississippian occupation at Town Creek has been characterized as being short in duration with a site structure consisting of an essentially contemporaneous mound and village (Coe 1952, 1995). Early attempts at defining site structure recognized palisades, enclosures, and structures, but the number of architectural elements identified was relatively low considering the size of the site and the density of postholes. However, the small number of structures identified and discussed was consistent with the idea that Town Creek represented a short-term occupation. The architectural elements that were identified included: several palisades; a pre-mound earthlodge (a square structure with entrance trenches and earth-embanked walls); superimposed rectangular structures with entrance trenches on two of the mound summits; several small rectangular structures interpreted as ceremonial sheds; a rectangular structure with entrance trenches surround by a rectangular enclosure interpreted as a priest's house; and at least 17 circular structures interpreted as mortuaries (Coe 1995:87, 96, 265, and Figure 5.3).

One of the goals of the research presented here is to attribute architectural elements to different periods so that contemporaneous constructions can be used to explore the Town Creek community at different stages in its development. This chapter presents the steps involved in this process. First, problems associated with the site's original overall map and the ways in which these problems were addressed using the photographic mosaic are discussed. Next, architectural elements from excavated portions of the site are identified and

dated. Finally, similarities among structures are used to define structure types and their associated assemblages are used to date them.

IDENTIFYING ARCHITECTURE AT TOWN CREEK

One of the keys to developing a community history of Town Creek is the ability to identify discrete architectural elements (e.g., houses, public buildings, plazas, palisades, enclosures) that served as the loci of activities in the past. Defining these spaces and contrasting the materials they contained will allow not only the recognition of activities from different periods, but also contemporaneous activities—in an archaeological sense—within the same community. A major hindrance to the identification of architectural elements at Town Creek has been the manner in which most of the site was excavated. Although Town Creek was a WPA project early in its excavation history, it never saw the large crews that characterized most Depression-era projects (Lyon 1996). Crew sizes were relatively small prior to the interruption in fieldwork caused by World War II, and they were even smaller during the period from the early 1950s to the early 1980s, primarily consisting of a staff archaeologist and an assistant (Coe 1995). Rather than having large crews work for a short period of time, excavations at Town Creek consisted of small crews working for a long period of time (Figures 3.1 and 3.2). Small crews necessitated relatively small-scale excavations at any one time, primarily consisting of one or two 10- \times -10-ft squares being open simultaneously (Figures 3.3 and 3.4). This strategy was a successful adaptation to the resources at hand, and it had a profound cumulative effect over the course of several decades, making Town Creek one of the most extensively excavated sites in North Carolina. The major drawback to this strategy was that the excavators were largely unable to identify and

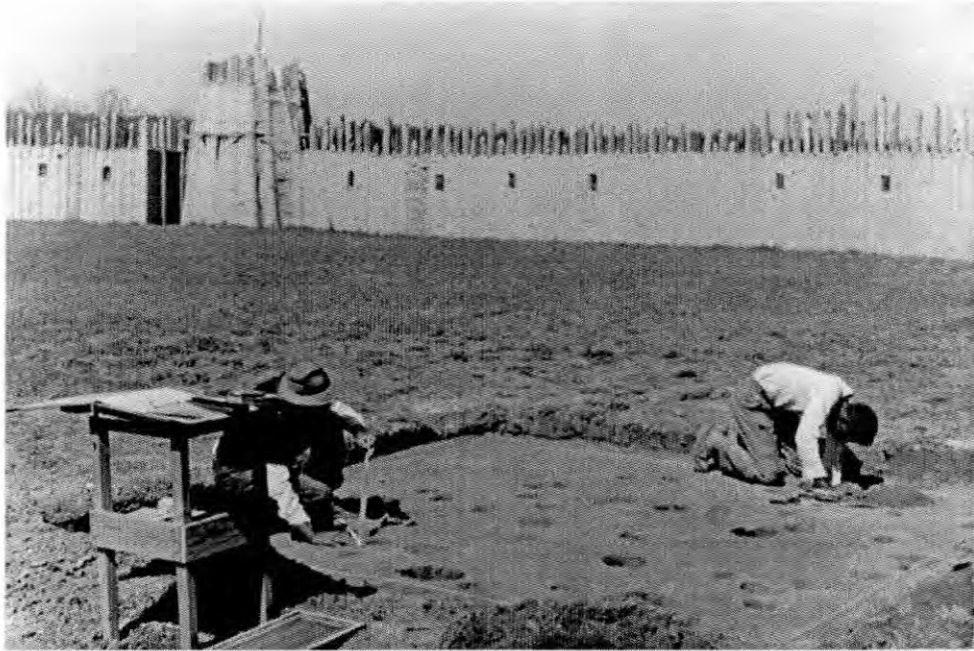


Figure 3.1. Mapping and excavating features in a nonmound unit at Town Creek (RLA image 2412).



Figure 3.2. Excavation of the first temple level on the mound summit, 1941 (RLA image 443).



Figure 3.3. View of the site showing the photo tower and reconstructed mound, 1952 (RLA image 2072).

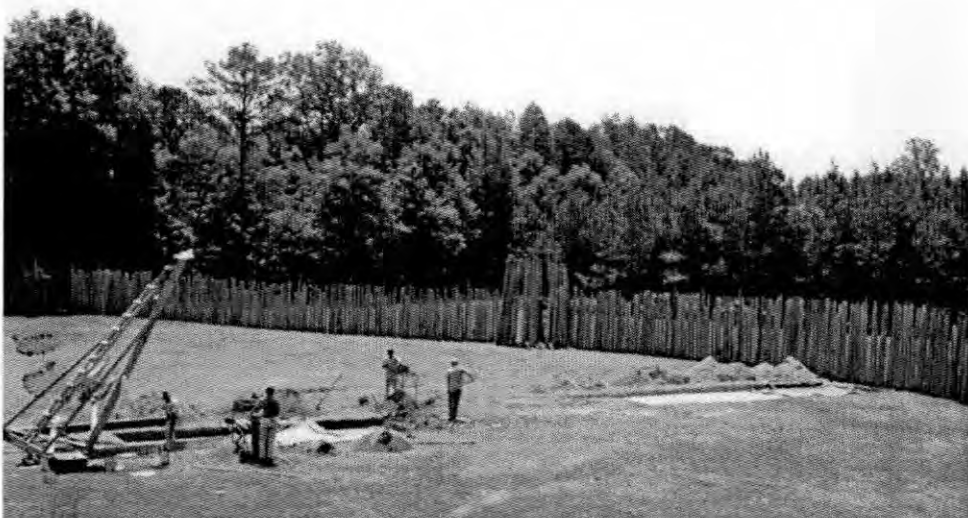


Figure 3.4. View of excavations with reconstructed palisade in background (RLA image 5249).

expose entire structures in the field. This meant that the identification of many structures occurred well after excavation, a less-than-ideal situation. The identification of structures after excavation was further complicated by the fact that in many units, soil discolorations were mapped but not excavated (Figure 3.5) as part of Coe's plan to document features at Town Creek while preserving them for future research (Ferguson 1995:xvi). Thus, many of the soil discolorations mapped as features were never tested, and it is likely that a great number of them are not actually features, but rather natural anomalies.

The Photographic Mosaic

This section provides a brief summary of the Town Creek photographic mosaic as it relates to the research presented here. Interested readers should look at Coe's (1995:49-60) more detailed, first-hand account. Coe was deeply interested in photography and how it could be used to document archaeological fieldwork. This interest led him to serve as an interpreter of aerial photographs during World War II (Boudreaux and Davis 2002; Griffin 1985b:298). Inspired particularly by United States Department of Agriculture soil surveys that used a series of photographs to provide complete coverage of large areas, Coe (1995:49) developed a plan for documenting the Town Creek site through a photographic mosaic (Boudreaux and Davis 2002; Spaulding 1951:8-9). The ultimate goal of this plan was to photograph the archaeological features in each excavation unit and then piece these photographs together into a mosaic that showed the entire site. Coe began the photographic mosaic project at Town Creek in 1940, following the excavation of the mound and the deposits immediately surrounding it (Mg2) (Coe 1995:1940). Remarkably, the field implementation of this project continued until the end of excavations in 1983.¹ This aspect

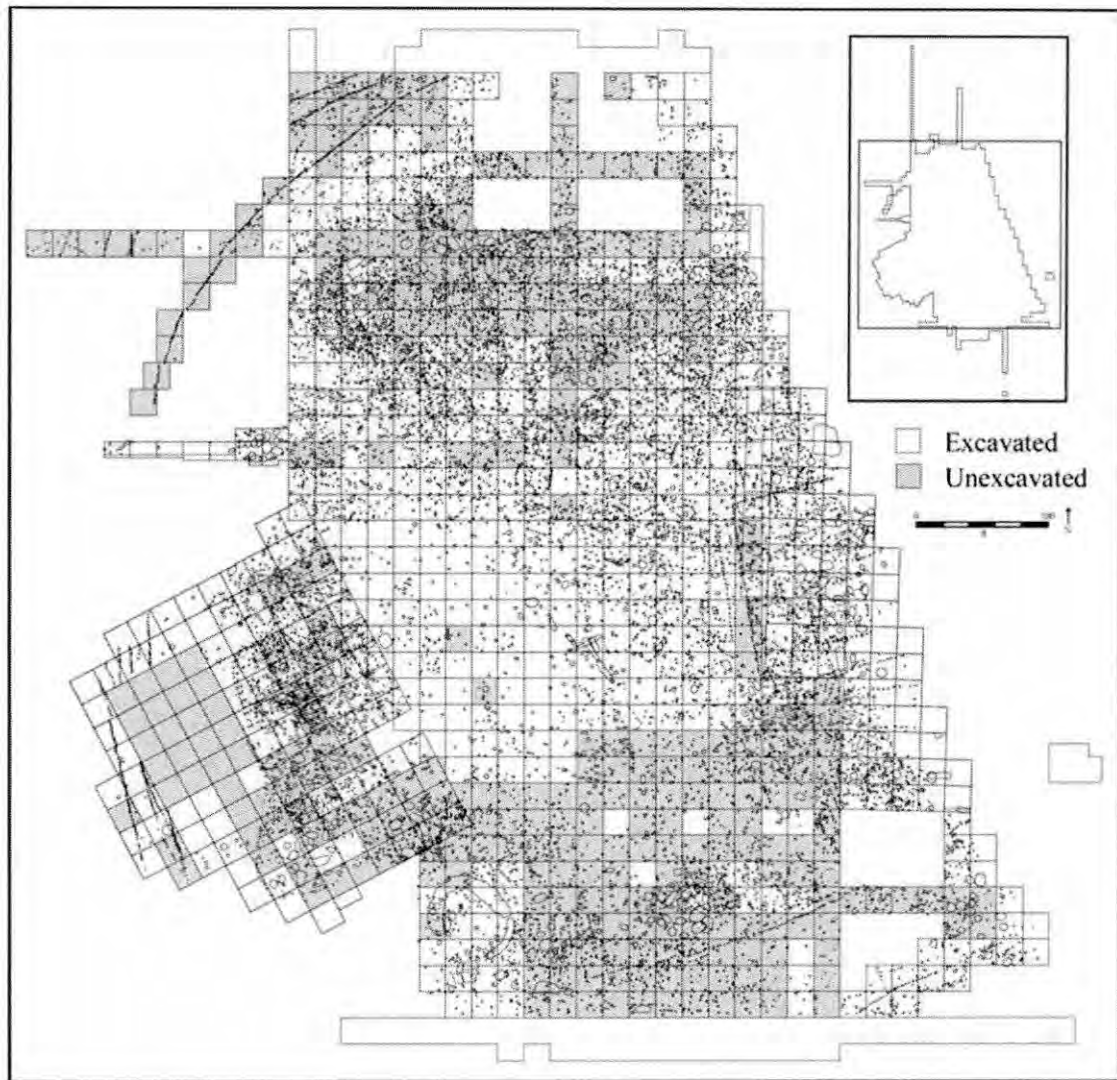


Figure 3.5. Map showing excavation units that contain five or more unexcavated features.

of the fieldwork endured through the tenures of 17 on-site supervisors and documented 761 of the 822 nonmound units.

Taking photographs for the mosaic was a part of the field regimen at Town Creek for the nonmound portions of the site (Mg3) (Coe 1995:52-54; Reid 1985:25). Units were excavated to the base of plowzone and then trowelled (Figures 3.6 and 3.7). This clean surface was then photographed from a 12-ft tall, cantilevered tower that was designed to place the photographer directly over the unit so that an orthographic perspective could be obtained (Figures 3.8 and 3.9). The ideal approach was for a series of three photographs to be taken of each unit: the trowelled surface at the base of plowzone, that same surface with all features outlined, and the same surface after features had been excavated. For most excavation units, though, the only photograph that exists is the trowelled surface at the base of plowzone.

Several portions of the photographic mosaic have been assembled over the years. One of these was put together by Roy Dickens (1968) for a class project at UNC. The process he used involved arranging 5- \times -5-inch prints of each excavation unit on a gridded plywood board (Figure 3.10). The section of the mosaic he assembled showed for the first time a circular house, with a number of interior burials, adjacent to a palisade line (Figure 3.11). Other portions of the mosaic were constructed following the same methods used by Dickens. However, the entire photographic mosaic was never built, probably due in part to the effort involved and the potential size of the final document, which would have covered approximately 143 ft².

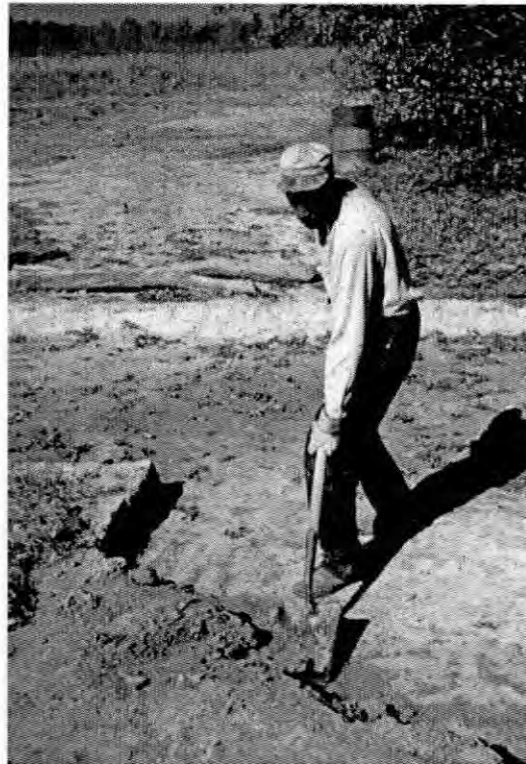


Figure 3.6. Excavating plowzone in a nonmound unit at Town Creek, 1952 (Note: The individual in this photograph is Ed Gaines, a long-time excavator at Town Creek) (RLA image 485).



Figure 3.7. Trowelling the surface at the base of plowzone, 1952 (RLA image 2086).

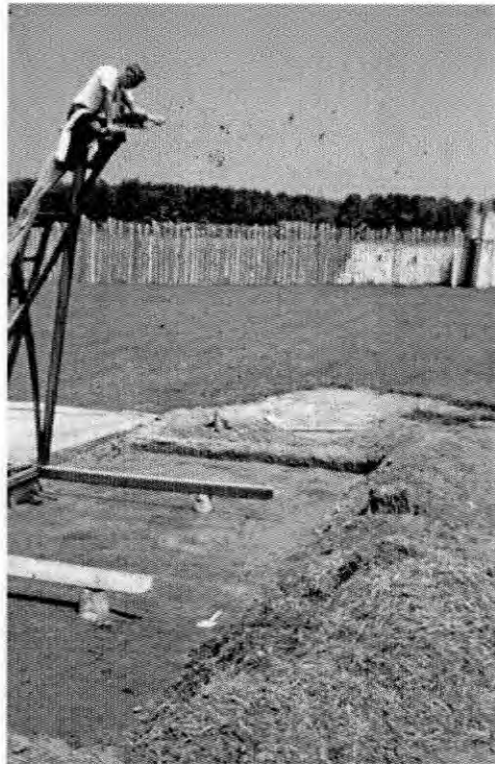


Figure 3.8. Stanley South on the photographic tower, 1957 (RLA image 836).



Figure 3.9. Photographer at the top of the photographic tower, 1952 (RLA image 2088).

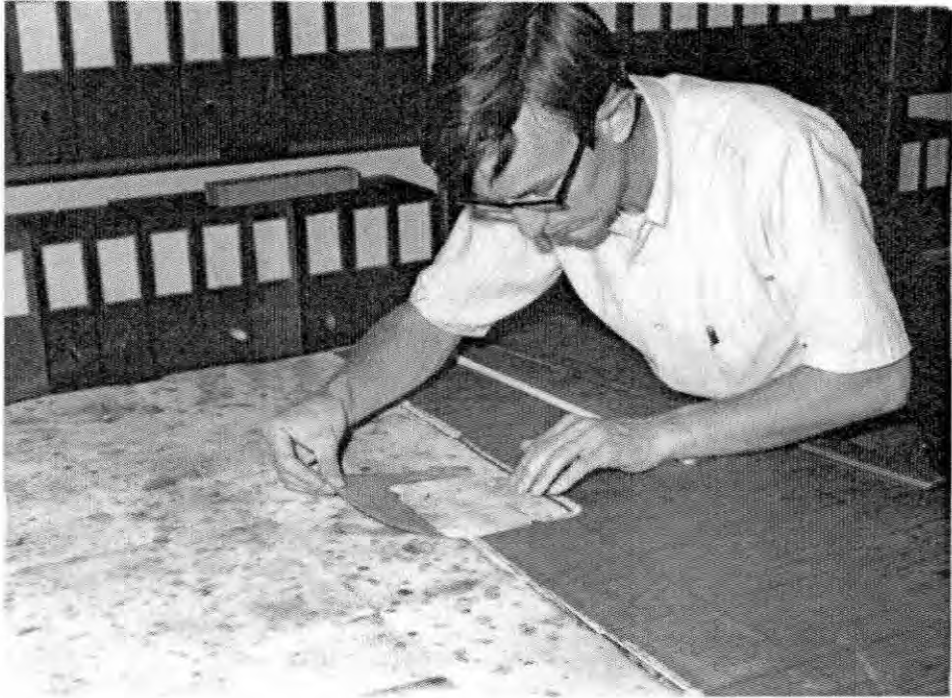


Figure 3.10. Roy Dickens assembling a portion of the photographic mosaic (from Dickens 1968).

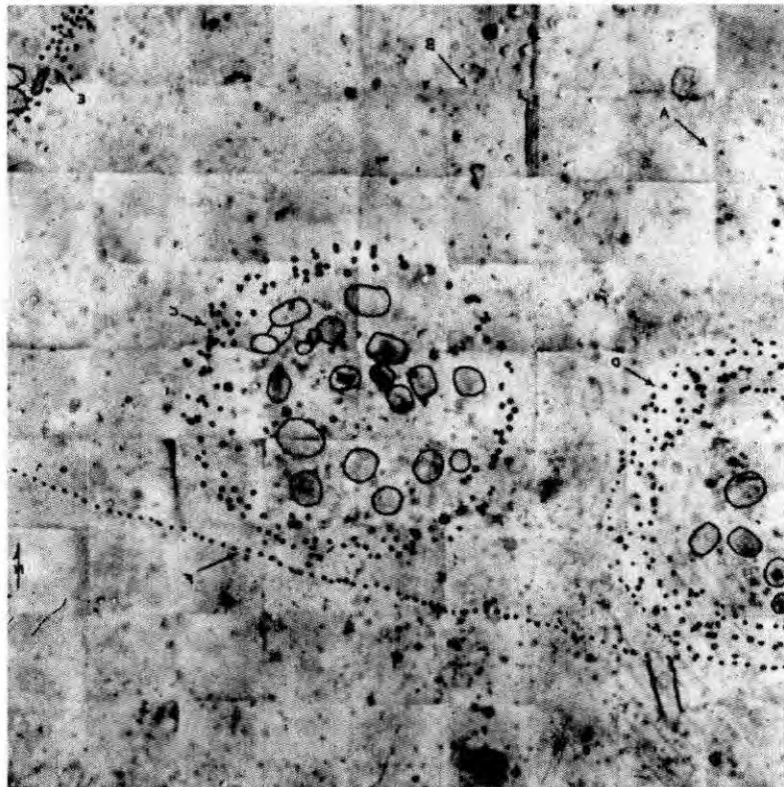


Figure 3.11. Portion of the photographic mosaic assembled by Roy Dickens (RLA image 23374).

The Overall Site Map

Prior to 2001, the overall site map that existed for Town Creek was not conducive to isolating architectural elements (Figure 3.12). The digital version of this map had been produced by R. P. Stephen Davis, Jr. of the RLA by digitizing the plot sheets from individual 10-x-10-ft units and then compiling them into a single plan.² Because of the issues discussed earlier of only exposing one small area at a time and mapping but not excavating soil discolorations, the first overall site plan was indecipherable and can be best described as a morass. Recognizing this problem, Davis developed and implemented a project that involved editing the site plan by coupling the excavation photographs taken for the photographic mosaic with the technology of geographic information systems (GIS) software. This project consisted of scanning the black-and-white excavation photographs, geo-referencing these digital images so that they could be arranged by the GIS software in their correct position, overlaying the site plan on these digital images, and then editing the plan based on the soil discolorations documented in the excavation photographs (Boudreaux and Davis 2002). Davis and several students were responsible for scanning the photographs and creating the digital photographic mosaic (Figure 3.13). As a part of this work, I was responsible for using the photographic mosaic to edit the site plan.

The digital photographic mosaic was used to edit the site plan in several ways. First, any unexcavated discoloration that was mapped on the individual plot sheets but that did not appear in the photographs was eliminated from the site plan. When compared to the original, the edited site plan presents a much less cluttered picture (Figure 3.14), which made identifying architectural elements easier. Second, the digital photographic mosaic provided a way to find mapping errors on the plot sheets made in the field. When necessary, objects on



Figure 3.12. Original site map of Town Creek.

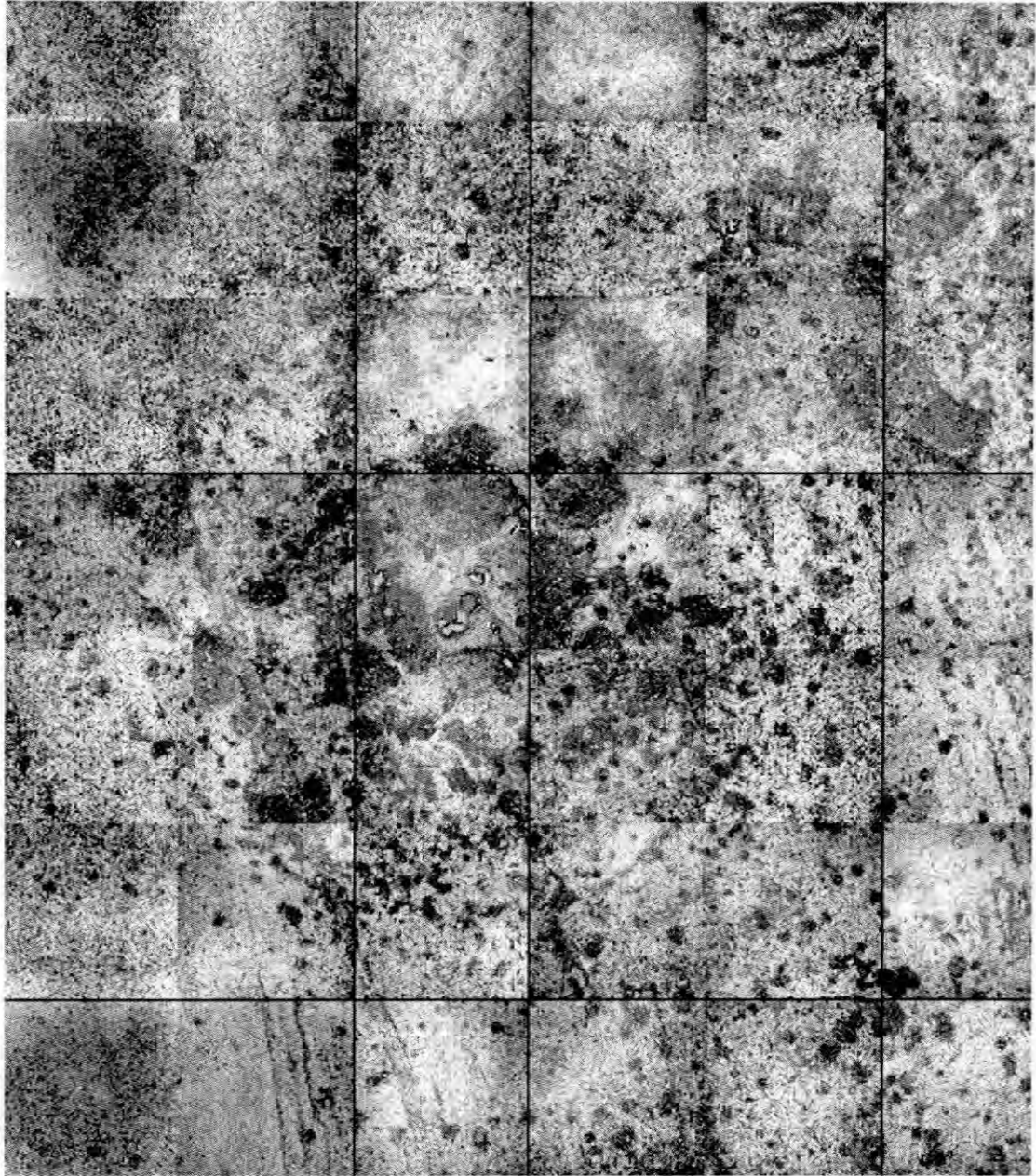


Figure 3.13. Portion of the digital photographic mosaic showing Structure 7.



Figure 3.14. Revised site map of Town Creek.

the site plan were repositioned and redrawn based on the photographs. Third, and most importantly, the digital photographic mosaic allowed the examination of excavated surfaces that expanded beyond the 10-x-10-ft excavation unit—a perspective largely unavailable to the excavators of Town Creek—which allowed the identification of larger posthole patterns and the inspection of areas where there were gaps in larger patterns.

Architectural elements were identified primarily based on symmetrical patterns of evenly spaced postholes. This process was facilitated by the capability in GIS to classify objects based on various attributes. One way in which this was critical was that once an architectural element was defined, the postholes that constituted it were coded in the database as belonging to an identified element which allowed their removal from the map by querying the theme that contained all of the mapped archaeological features (Environmental Systems Research Institute 1999:13-2). Once a structure was identified and its features removed, the remaining features could be examined for additional patterns (see Prezzano 1988:43). This was important at Town Creek, where many structures were superimposed on the same surface. Classifying objects in GIS also allowed the identification of a few structures by posthole depth based on the assumption that postholes belonging to the same structure would be relatively uniform in depth. This approach was used by Stanley South at Town Creek in the 1950s when he color coded postholes by depth on paper maps and was able to delineate a structure (South 1957b). For my analysis, posthole depths were obtained from cross-section drawings on the original plot sheets. These values were then recorded in the GIS database. Initially, a histogram was used to find natural breaks in the distribution of the posthole depths and classes were based on them with each class represented by a unique color on the map. This first attempt did not reveal any new patterns. The range of values in each class was then

adjusted by a tenth of a foot until a few new architectural elements became recognizable. Although my approach was the same as South's, the major advantage I had was that GIS allowed me to change maps by simply altering the parameters for the depth classes. Without GIS, entirely new paper maps would have been needed. The two approaches enabled by GIS—removing postholes from consideration and classifying postholes based on depth—allowed the identification of a number of architectural elements, primarily through the former approach, that would not have been possible otherwise.

DESCRIPTIONS OF ARCHITECTURAL ELEMENTS

Many of the architectural elements discussed in this section (Figure 3.15) have been identified during the course of this research, well after their excavation, while some were identified by Coe, South, and others during excavations. Four classes of architectural elements have been identified. Structures are the buildings that were used by the people of Town Creek. At least 42 whole or partial structures have been identified³ (Figure 3.16). Burial clusters are spatially discrete concentrations of burials that could not be associated with any structure. Palisades were constructions that encircled the entire community while enclosures were ones that delineated a part of the community (see Lewis et al. 1998:18-19).

The descriptions of architectural elements focus first on those that were excavated which allows them to be dated based on associated ceramics and stratigraphic relationships with other features. Beginning with excavated elements also allows a discussion of structures in terms of their internal features. This section is organized by excavation area within the site (Figure 3.17). Once excavated architectural elements are discussed, the

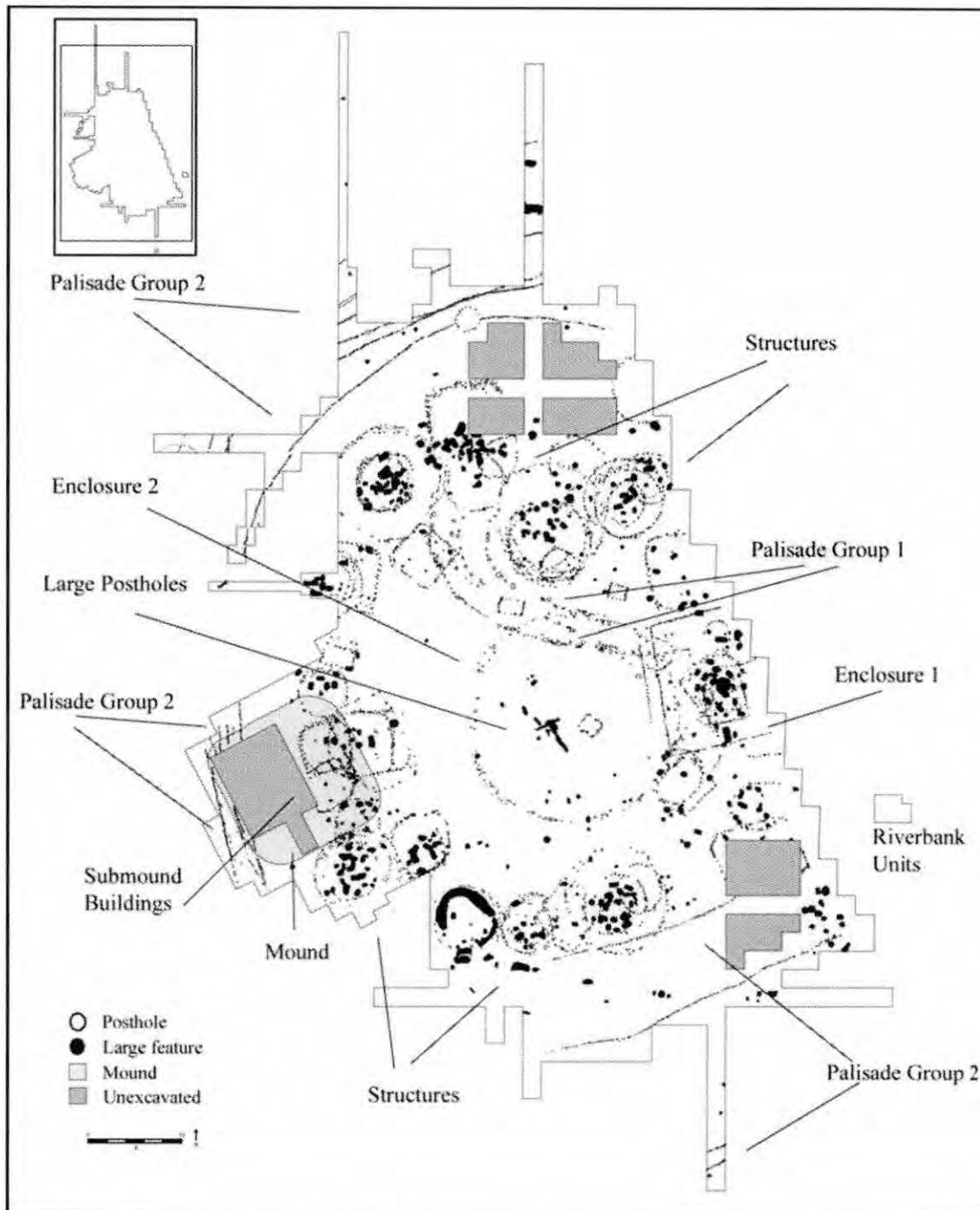


Figure 3.15. Identified architectural elements at Town Creek.

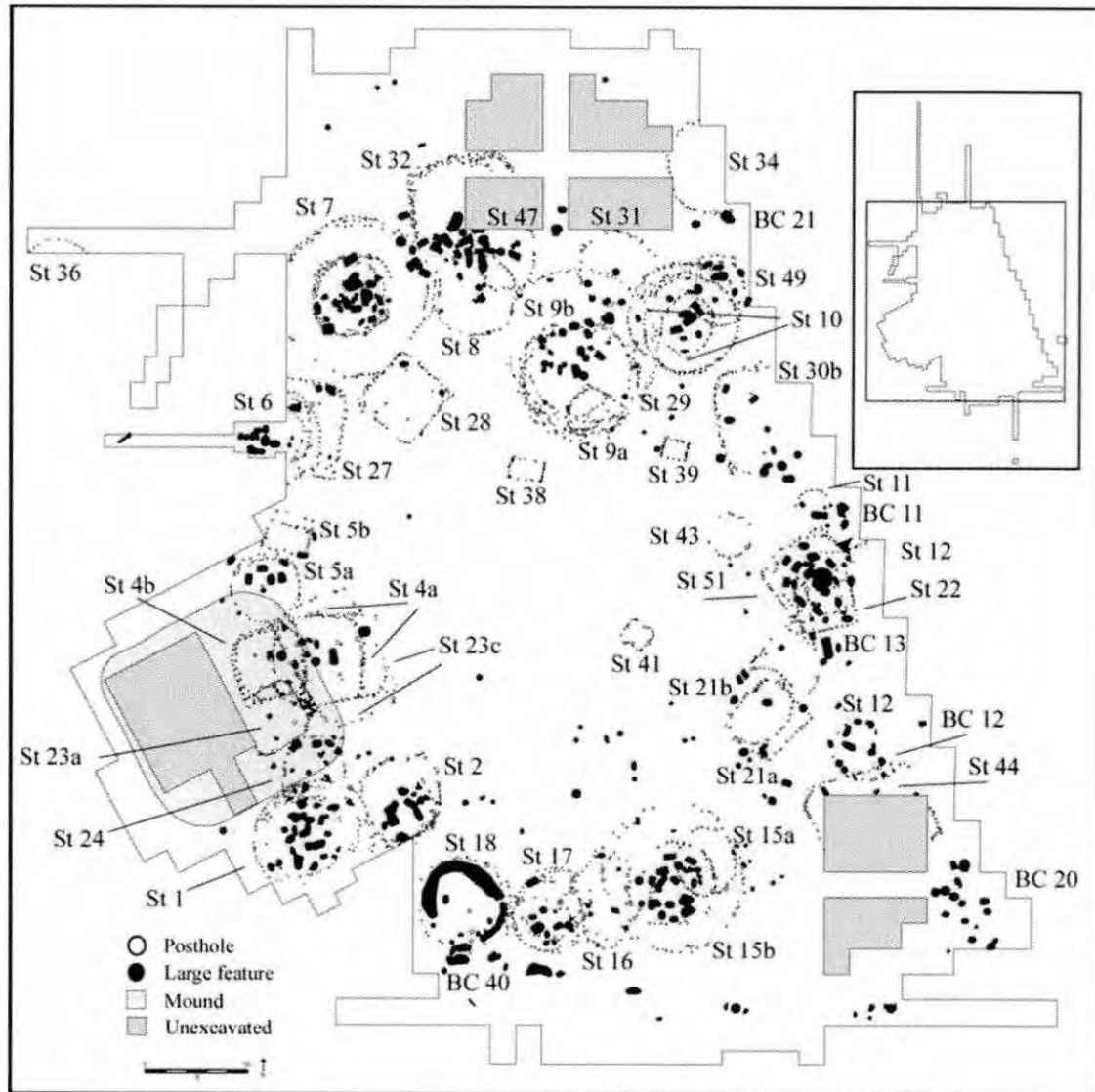


Figure 3.16. Identified structures and burial clusters at Town Creek.

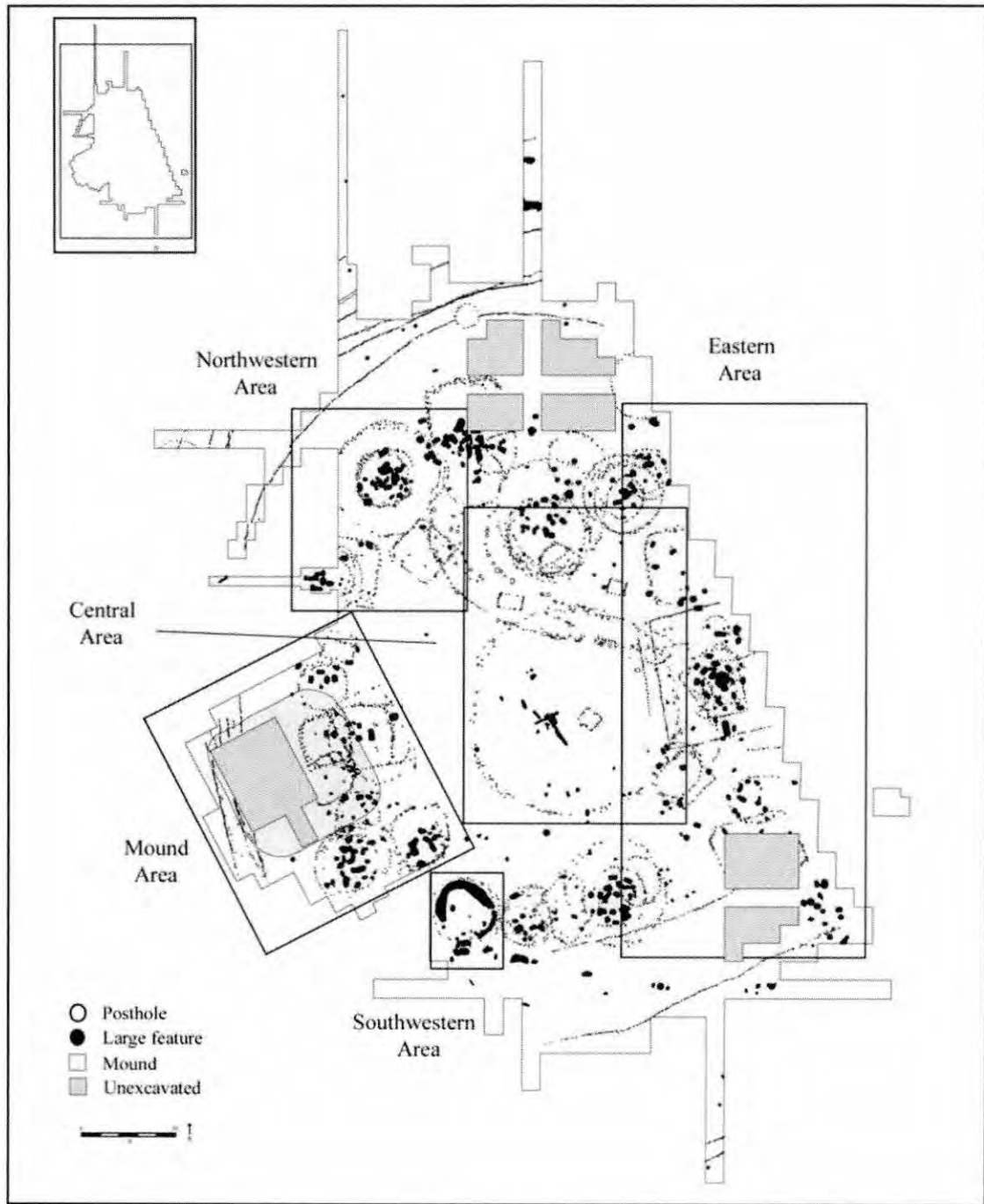


Figure 3.17. Map showing excavated areas at Town Creek.

patterns they suggest are used to identify architectural elements in parts of the site where subplowzone features were mapped but not excavated.

Each section includes a discussion of the chronological information available for architectural elements. Pottery is used to date architectural elements⁴ (Table 3.1). The distribution of diagnostic types in features associated with and in the vicinity of structures is considered. The diagnostic types are primarily the rim modes discussed in Chapter 2. In the absence of such rim treatments, the presence of certain surface treatments is used.

Diagnostic types are used to establish a *terminus post quem* for individual features. Also, the stratigraphic relationships among features and other dated contexts are used in some cases to establish a *terminus post quem* or a *terminus ante quem* for those features. Diagnostic artifacts are used to date features which are then used to date the architectural element with which they are associated.

Features associated with structures include the postholes that constitute the walls and internal features such as roof supports, pits, basins, and burials.⁵ In most cases, features occurred in spatially discrete clusters that could be assigned to a structure or burial cluster. In cases where there was overlap between clusters and I had to use my judgment, decisions were based on factors such as the distance between features, the alignment of features with a structure's wall, feature morphology, and associated artifacts.

Mound Area

The Mound Area is the western part of Town Creek that was encompassed by the Mg2 grid (Figures 3.18 and 3.19). This includes the submound and mound deposits. Coe (1995:65-84) and Reid (1985:25-26) have discussed the sequence of events represented in the

Table 3.1. Pottery in architectural elements.

Architectural Element	Stamp Patterns														Rims							
	Non Pee Dee	Decorated	Plain	Unidentified	Arc Angle	Concentric Circles	Fillet	Herringbone	Lineblock	Quartered Circles	Split Diamonds	Non Pee Dee	Plain	Folded Punctated	Nodes	Pellets	Small Punctations	Lugs	Rosettes	Notched Strip	Punctated Strip	Thickened Exterior
Structures																						
1	24	64	21	2	-	4	1	-	-	-	1	29	-	-	-	-	2	-	2	-	-	
2	24	85	38	2	-	1	-	-	1	-	2	21	-	-	1	1	-	1	-	-	-	
4a	23	48	25	4	-	2	1	-	-	-	9	-	-	-	-	1	-	-	-	-	-	
4b	-	2	-	-	-	1	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
5a	2	16	1	1	-	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
5b	-	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
6	9	86	19	8	-	1	-	-	1	-	-	18	-	-	-	-	-	-	-	-	-	
7	230	885	248	128	2	7	10	80	-	3	1	4	141	-	1	-	-	-	-	-	-	
8	6	23	5	8	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
9a	9	19	5	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	
9b	25	102	29	10	-	-	-	-	-	-	3	13	-	-	-	-	-	-	-	1	2	
10	16	38	13	-	-	-	-	-	1	-	1	4	-	-	-	-	-	-	-	-	-	
12	46	249	88	21	-	1	7	-	-	-	1	30	-	-	-	-	-	3	-	-	-	
14	23	105	18	-	-	-	1	-	1	-	-	16	-	-	-	-	-	-	-	-	-	
15a	14	33	14	1	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	
15b	104	419	141	20	-	1	-	-	1	1	4	38	1	-	1	2	-	1	-	-	-	
16	3	29	3	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	
17	7	62	18	19	-	1	-	-	1	-	-	8	-	-	-	-	-	-	-	-	-	
18	714	149	62	68	-	1	1	-	1	-	18	24	-	-	-	1	-	-	-	-	-	
21a	1	11	5	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-	
21b	11	52	27	3	-	-	1	-	-	-	-	9	-	-	1	-	-	-	-	1	-	
22	2	10	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
23a	-	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23c	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
24	-	3	2	-	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
27	38	109	11	4	-	6	-	1	-	-	2	1	12	-	-	-	-	1	1	-	-	
28	37	30	16	1	-	-	1	-	-	-	2	2	-	-	-	1	-	-	-	-	-	
29	14	78	22	3	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	
30b	49	255	104	8	-	1	-	-	-	-	2	42	1	-	3	1	-	2	-	1	1	
31	26	94	36	-	3	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	
32	15	7	-	-	-	1	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	
32b	7	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	2	14	4	1	-	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-	-	
39	7	40	14	1	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	
41	-	21	7	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
43	2	1	2	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
44	-	6	1	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
48	5	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
49	42	106	24	3	-	1	1	-	-	-	1	14	-	1	-	-	-	-	-	-	-	
50	5	8	-	1	-	-	-	-	1	-	1	3	-	-	-	-	-	-	-	-	-	
51	29	164	55	4	-	-	-	-	-	-	1	12	-	-	-	-	-	-	1	-	-	
Burial Clusters																						
11	4	11	5	5	1	-	-	-	-	-	-	6	-	-	1	-	-	-	-	-	-	
13	9	56	11	1	-	1	-	-	-	-	2	13	1	-	-	-	-	-	-	-	-	
14	15	42	13	9	-	-	1	-	-	-	2	9	-	-	1	-	-	1	-	1	-	
20	71	243	128	208	-	1	-	-	-	-	3	45	-	-	4	1	-	3	-	-	-	
21	18	23	6	3	-	-	-	-	-	-	1	12	-	-	-	-	-	-	2	-	-	
40	76	159	42	23	1	5	-	-	-	1	3	19	-	-	-	-	-	-	-	-	-	
Miscellaneous																						
Enc. 1	7	16	2	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
Enc. 2	12	36	17	1	-	-	1	-	-	1	-	6	-	-	1	-	-	1	-	3	-	
I.g. Ph. (plaza)	24	78	22	15	-	6	-	-	-	-	1	11	-	-	-	-	-	-	-	-	-	
Pal. 1	55	170	70	19	-	-	3	1	2	1	4	26	-	-	-	2	-	-	-	-	-	
Pal. 2	21	15	6	2	-	-	1	-	-	1	-	3	-	-	-	1	-	-	-	-	-	
Total	1884	4302	1410	616	6	39	29	93	2	13	8	60	662	3	2	14	12	2	13	7	10	1

Table 3.1 (cont.). Pottery in architectural elements.

Architectural Element	Pee Dee Surface treatments														Non Pee Dee surface treatments													
	Brushed	Small Check Stamped	Large Check St.	Cob Impressed	Curv. Comp. St.	Wide Curv. Comp. St.	Rect. Comp. St.	Wide Rect. Comp. St.	Cordmarked	Fine Cordmarked	Fabric Marked	Net Impressed	Plain	Burnished Plain	Small Simple St.	Large Simple St.	Stamped	Textile Impressed	Unidentified	Brushed	Check Stamped	Cordmarked	Fabric Marked	Net Impressed	Plain	Simple Stamped	Unidentified	
Structures																												
1	-	-	-	-	18	-	4	-	-	-	-	-	10	2	-	-	2	-	1	-	1	2	1	-	-	-	-	
2	-	-	-	-	11	1	2	1	-	-	-	3	10	3	-	2	4	3	2	-	2	1	-	-	-	-	-	
4a	-	-	-	-	13	-	2	-	-	-	-	-	2	2	-	-	3	-	1	-	-	1	-	-	3	-	-	
4b	-	-	-	-	6	-	4	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
5a	-	-	-	-	3	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
5b	-	-	-	-	2	-	-	-	-	-	-	2	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	
6	-	-	-	-	14	-	6	-	1	-	-	3	-	-	-	3	1	5	-	-	-	-	-	-	-	-	-	
7	-	2	-	1	169	-	139	1	5	-	1	79	20	2	-	25	3	28	-	-	16	-	-	5	2	-	-	
8	-	-	-	-	8	-	5	-	-	-	-	1	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	
9a	-	-	-	-	4	3	2	-	-	-	-	1	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	
9b	-	-	-	-	8	-	4	1	-	-	-	9	3	1	-	5	-	13	-	-	1	-	-	2	4	-	-	
10	-	-	-	-	5	-	4	-	-	-	-	-	-	-	-	1	2	1	-	-	2	-	-	-	1	1	-	
12	-	1	-	-	31	-	17	-	-	-	-	7	4	-	-	11	4	6	-	-	1	-	-	2	-	-	-	
14	-	-	-	-	8	-	10	-	-	-	-	1	-	3	-	1	1	1	-	-	1	-	-	1	-	-	-	
15a	-	-	-	-	3	-	3	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
15b	-	-	-	-	40	-	8	-	1	-	1	13	3	1	-	8	1	3	-	-	1	-	-	2	1	-	-	
16	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
17	-	-	-	-	5	-	1	-	-	-	-	1	1	-	-	3	-	-	1	-	-	-	-	-	2	-	-	
18	-	10	-	-	13	-	4	-	73	-	-	29	1	11	-	6	-	1	1	3	13	2	-	16	7	-	-	
21a	-	-	-	-	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
21b	-	-	-	-	3	-	3	-	-	-	-	2	-	-	-	2	1	2	-	-	1	-	-	1	-	-	-	
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23a	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23c	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
24	-	-	-	-	2	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	-	-	-	-	32	-	3	-	-	-	-	3	-	-	-	3	-	2	-	1	-	-	-	1	-	-	-	
28	-	-	-	-	4	-	5	-	1	-	-	8	1	-	-	-	2	-	-	2	-	-	1	-	-	-	-	
29	-	-	-	-	11	-	3	-	-	-	-	3	-	1	-	6	-	3	-	-	3	-	-	-	-	-	-	
30b	2	-	1	-	22	-	5	-	-	-	-	17	6	-	1	8	3	4	1	-	3	-	-	1	1	1	-	
31	-	-	-	-	25	-	4	-	2	-	-	10	1	1	-	11	-	3	-	-	-	-	-	1	1	1	-	
32	-	-	-	-	6	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	
32b	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	
39	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
41	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	
43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	-	-	-	-	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	
49	-	-	-	-	20	-	10	-	-	-	-	11	4	-	-	3	2	7	-	2	-	1	-	-	1	-	-	
50	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	
51	-	1	-	-	14	-	5	-	-	-	-	3	-	-	-	5	-	2	-	-	-	-	-	1	-	-	-	
Burial Clusters																												
11	-	-	-	-	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	14	-	9	-	-	-	-	3	1	-	-	1	-	1	-	2	3	-	-	2	-	-	-	
14	-	1	-	-	3	-	3	-	-	-	-	2	4	-	-	1	5	3	-	-	-	-	-	-	-	-	-	
20	-	-	-	-	13	-	4	-	-	-	-	8	-	-	2	5	1	6	-	-	1	-	1	-	-	-	-	
21	-	-	-	-	1	-	1	-	-	-	-	3	-	-	-	1	-	1	-	-	4	-	-	-	-	-	-	
40	-	-	-	-	34	-	5	-	5	-	1	3	2	-	-	3	-	2	-	-	9	1	-	1	3	1	-	
Miscellaneous																												
Enc. 1	-	-	-	-	-	-	7	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Enc. 2	-	-	-	-	9	-	7	-	-	-	-	7	4	-	-	3	-	2	-	-	-	-	-	-	-	1	1	
Lg. Ph. (plaza)	-	-	-	-	37	-	6	-	-	-	-	7	-	1	-	5	-	3	-	-	2	-	-	3	2	-	-	
Pal. 1	-	-	-	-	16	-	11	1	5	1	-	26	6	-	-	11	2	8	-	2	4	-	-	4	2	-	-	
Pal. 2	-	-	-	-	4	-	2	-	-	-	-	1	2	-	-	1	-	1	-	-	1	-	-	-	1	-	-	
Total	2	15	1	1	642	4	316	4	92	2	2	6	304	71	21	5	150	32	127	3	13	76	5	1	48	30	5	

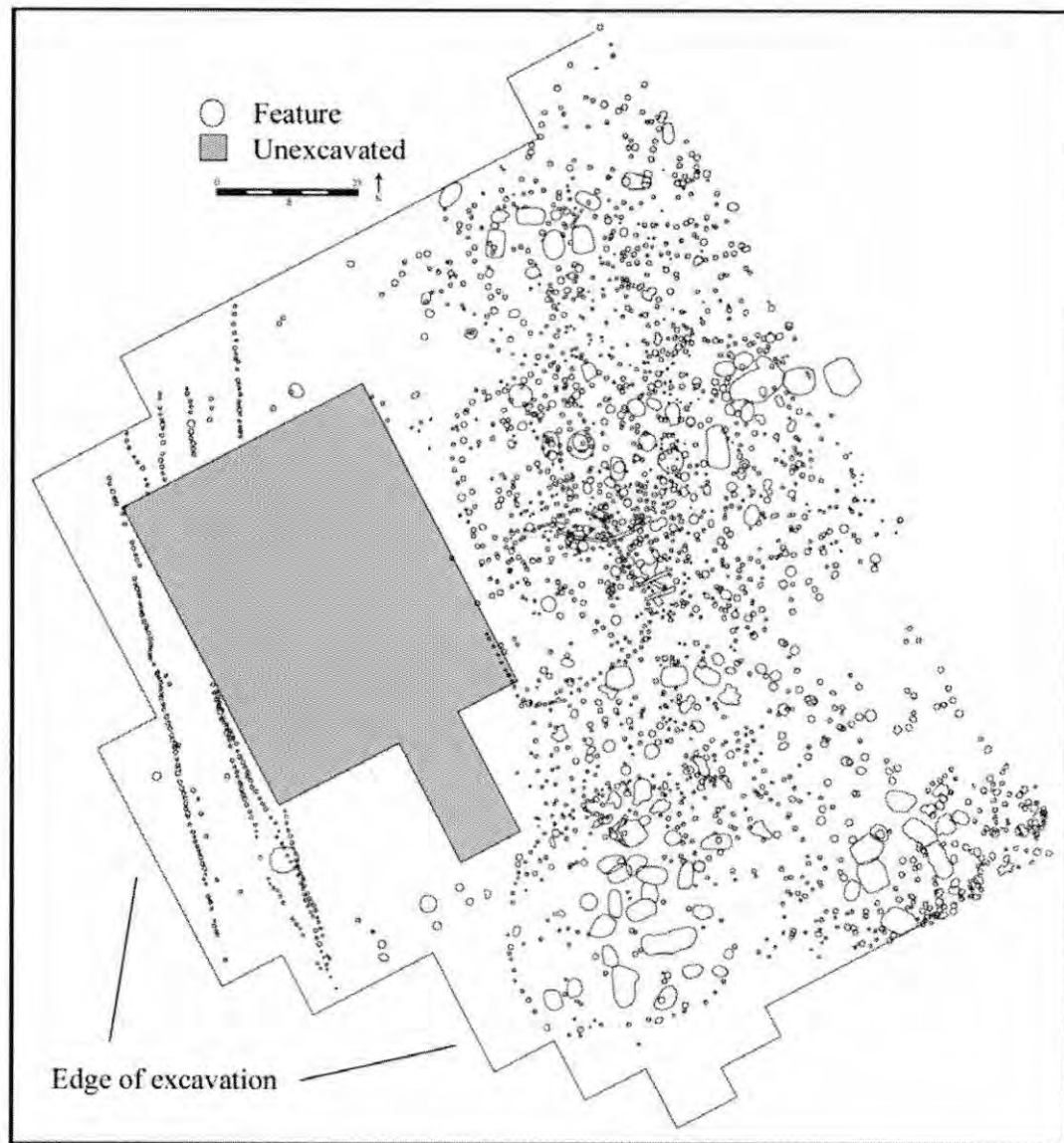


Figure 3.18. All features in the Mound Area.

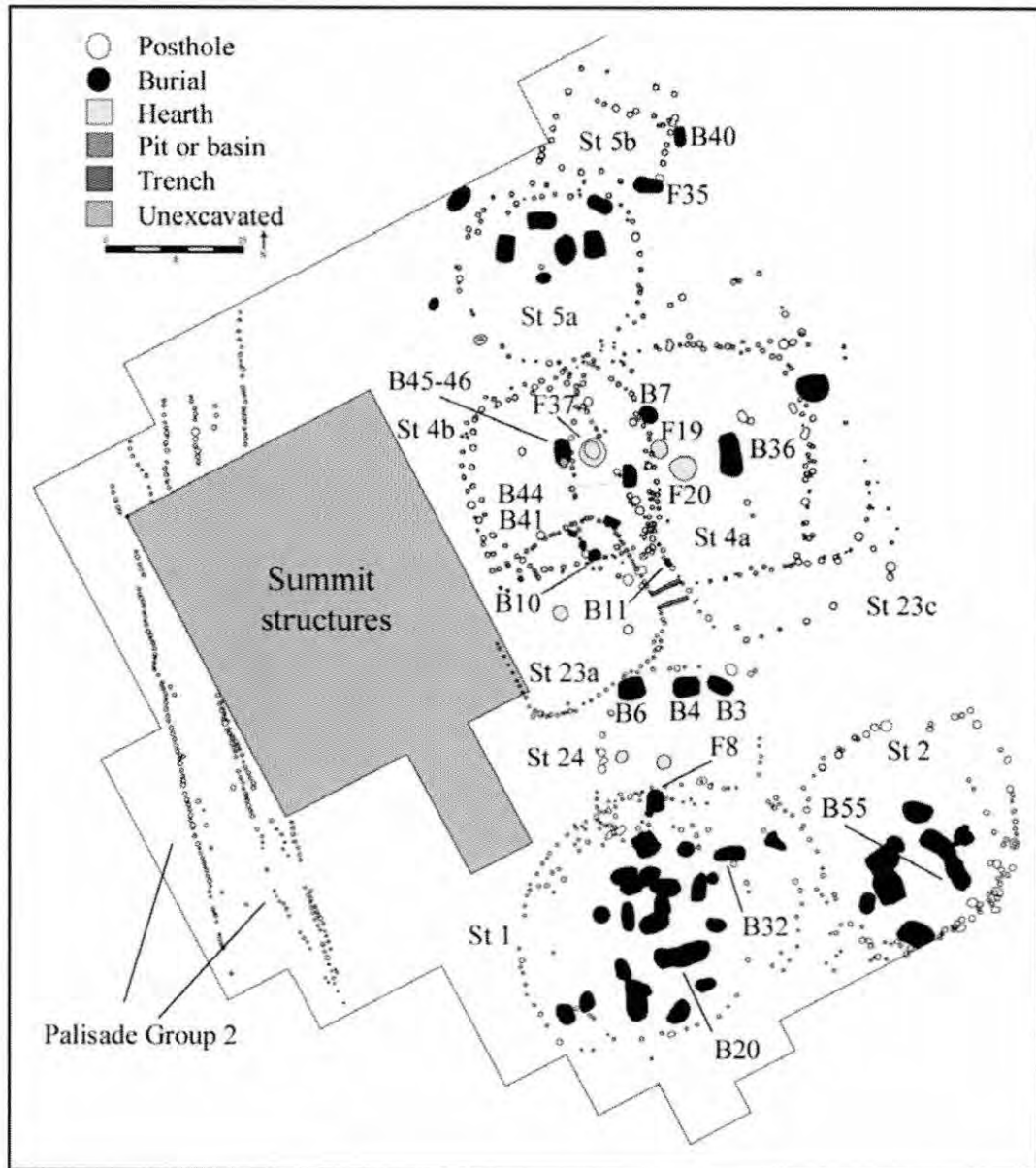


Figure 3.19. Identified architectural elements in the Mound Area.

submound and mound deposits of the Mound Area. The interpretations presented in this section are partially based on their accounts, but they are also based on the photographs, drawings, and notes produced by the excavators at Town Creek. There are many points of agreement between my interpretations and those of Coe and Reid. However, there are several structures I identified that they did not and at least one case where they defined a structure that I did not.

Ground-Level Structures

At least nine structures are present at ground level in the Mound Area, seven of which were wholly or partially superimposed by the mound. Four circular and five rectangular structures have been identified in this area. The area underneath the mound was intensively used and the result is a complex arrangement of overlapping features and structures. Unfortunately, this unique part of the site was excavated during the first two seasons of fieldwork and its documentation was not as thorough as with later work. Additionally, the western half of the mound was seriously disturbed by relic hunters and this disturbance extended down to the subsoil in some areas (Coe 1995:8). Furthermore, this area was excavated before the photographic mosaic project was initiated, so there is no way to evaluate the maps and notes that do exist. As a result, several structures cannot be defined as clearly as I would like.

Three circular structures have been identified in the Mound Area. The largest of these is Structure 1, which is designated as Structure A in the field notes (Coe 1937). Structure 1 consisted of two circular patterns of postholes. The larger of these is 47 ft in diameter and the smaller is 30 ft. Structure 1 contained a hearth and a dense cluster of 24

burials containing 30 individuals. Most of the burials occurred within the interior circular pattern, although at least two were found outside of it. The burial position of individuals within this cluster exhibits a pattern that is found across the Town Creek site. Nearly all of the individuals buried in this cluster were interred in a flexed position with the knees drawn up toward the chest. There are two exceptions. One of these is Burial 20/Mg2 which is an extended burial located in an open area near the structure's center. The other is Burial 32/Mg2, also an extended burial, located on the cluster's northeast edge. These two burials also stand out because their fill contained late Leak-phase diagnostics, indicating they date to this phase or later. The northern side of Structure 1 appears to have abutted the south side of the pre-mound embankment which was part of the first mound-construction stage at Town Creek (see Mound Stratigraphic Sequence section that follows). Thus, Structure 1 could date to the first stage of mound construction. Structure 1 appears to have been at least partially covered by subsequent stages, although burials were added to the space delineated by this structure as late as the late Leak phase.

Structure 24 is a square construction that measures approximately 23 ft on a side. It is designated as Structure B in the field notes (Coe 1937), although it is not discussed in subsequent publications. Structure 24 contained two hearths near its center and, in contrast to Structure 1, only four burials. A line of three burials (Burials 3, 4, and 6/Mg2) was located along the structure's north wall. A possible fourth burial was located on its south wall, although it could have been associated with Structure 1 as well. This possible burial is Feature 8/Mg2, a pit that contained mostly trash but also a few human bones.

Structure 2 is a poorly defined circular building that measures 30 ft in diameter. It is poorly defined partly because its postholes were not excavated. Also, it was located at the

southeastern corner of Mg2. In the original Town Creek maps, the edges of excavations in many places had high concentrations of mapped but unexcavated features. Many of these concentrations were removed during the photographic mosaic editing process.

Unfortunately, Mg2 was not included in the mosaic, so it is still unclear which drawn postholes are real and associated with the structure and which ones are not. Structure 2 contained 10 burials with 11 individuals. All of the burials with Structure 2 were flexed except for one extended individual (Burial 55/Mg2). Structure 2 was not superimposed by the mound.

Structure 5a is a circular structure that is 26 ft in diameter. It had a hearth located near its center and six interior burials. Another two burials were located outside the structure and presumably were associated with it. Structure 5a was superimposed by the mound.

Structure 5b is the smallest rectangular structure in the Mound Area, measuring 10-x-16 ft. It did not contain any substantial interior features, but two flexed burials were aligned with the structure's walls and presumably were associated with it. One of these (Burial 40/Mg2) was just outside of the structure, and the other (Feature 35/Mg2) was actually superimposed by the structure.

The remaining four rectangular structures were all overlapping in a complex mass of features and postholes. The four structures seem to consist of two sets of two related structures (Structures 4a and 4b; Structures 23a and 23c). It was difficult to clearly define each of these structures. The resolution of four overlapping structures into discrete units would be difficult under the best of circumstances. Unfortunately, as discussed previously, the excavation of these structures did not occur under the best of circumstances. The Structure 4 complex consists of at least two structures (Structures 4a and 4b) that appear to

be distinct but are also clearly related. Of these two, Structure 4a is on the east side, closer to the plaza, and Structure 4b is to the west. An indication that these two structures are related is that several burials and other features found within these two structures seem to be aligned. Additionally, burials found within each structure were oriented along the same north-south axis. There are several reasons why this complex seems to consist of two distinct structures. One important distinction between the two structures is their orientation. The walls of Structure 4b are oriented along a north-south axis while Structure 4a is oriented at approximately 25 degrees west of north. The orientation of Structure 4a parallels that of Structures 23a and 23c as well as the mound and mound summit structures.

Structure 4a is a nearly square structure measuring 33 ft north-south and 34 ft east-west. One unique feature of this structure is that it appears to have had a portico or some similar construction on its eastern side adjacent to the plaza, which would add an additional 9 ft on to its east-west dimension. The interior of Structure 4a contained a number of postholes. Most of these postholes were less than one foot in depth, but four deep postholes arranged in a square appear to represent interior roof supports. This pattern of many shallow postholes and a few deep ones is consistent with the idea of having a few interior support posts surrounded by benches and other furniture. Two large hearths (Features 19 and 20/Mg2) were located near the center of Structure 4a within the area delineated by the support posts. Two extended burials (Burials 36 and 44/Mg2), one of an adult female and one of a child, oriented parallel to the structure were also located within this area. A line drawn through the two extended burials and the two hearths would bisect Structure 4a along its east-west axis (Figure 3.20). Two other burials (Burials 7 and 41/Mg2) probably also

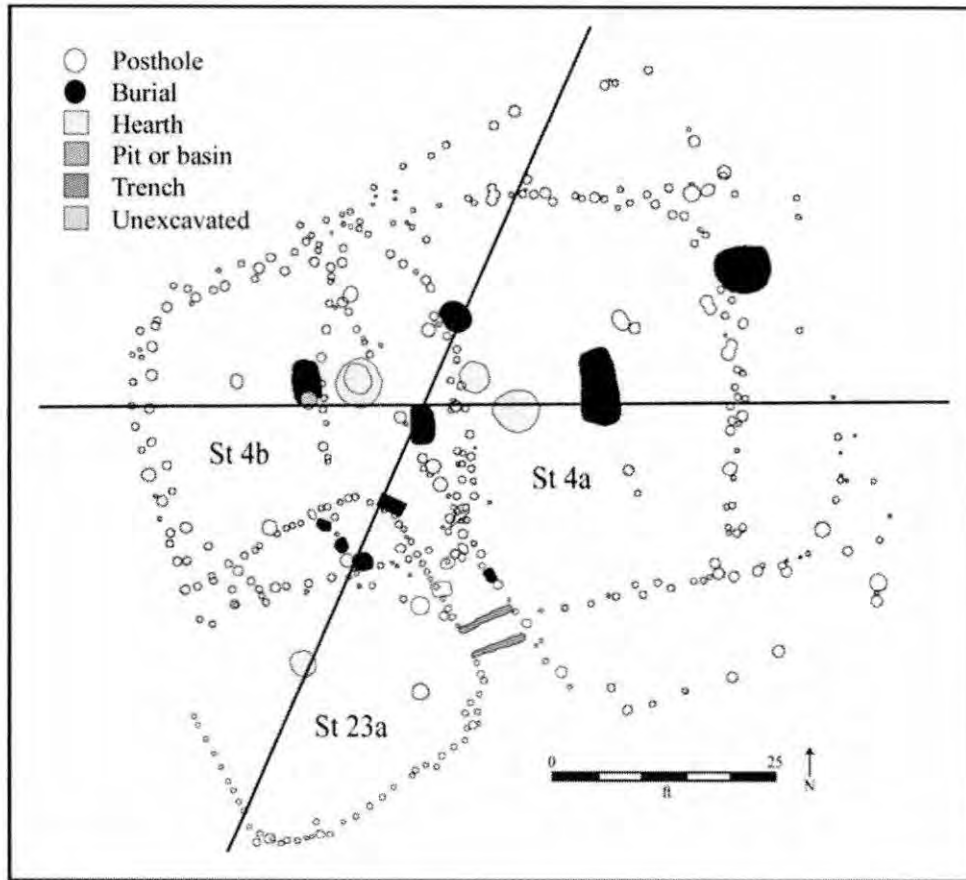


Figure 3.20. Axes intersecting features in submound buildings.

associated with Structure 4a are located to the north and south of this line of features. These two individuals were flexed, and the placement of their burial pits may have been aligned with Burial 44/Mg2 on a northeast-southwest axis. It is unclear what is represented by a cluster of large features near the northeast corner of Structure 4a. These features do not seem to fit with anything else in the structure, and it seems likely that they either predate or postdate it.

Coe (1995:72) discusses a small, rectangular structure in the area north of Structure 23c. This building, referred to in publications as a crib or trash bin (Reid 1985:25), was interpreted as a receptacle for "square-ground sweepings" and ash from ritual burning (Coe 1995:72). I was not able to recognize this structure. Instead, I identified Structure 4b in the area north of Structure 23c. Although my recognition of this structure contradicts earlier interpretations, I believe that the field notes, drawings, and photographs support my identification of Structure 4b. Structure 4b is a nearly square building (26-x-27 ft) that appears to have rounded corners. Structure 4b is referred to as "Structure D" in the field notes (Swart 1940b). The field notes and the excavation photographs indicate that Structure 4b had earth-embanked walls. The photographs show a wide area of light soil surrounding the structure around its exterior (Figure 3.21). This area of discoloration is symmetrical, and its shape parallels that of the postholes that compose the walls of Structure 4b. Additionally, the fieldnotes refer to this area of lighter soil as the structure's "yellowish streaked outer shell," and the structure itself is described as a "stratified house like an earth mass" (Swart 1940b). The exterior wall of Structure 4b consisted in places of two rows of postholes, all of which were over 0.5 ft deep and most of which were over 1 ft deep. It is possible that these multiple rows represent rebuilding or repair events. Alternatively, the depth and density of

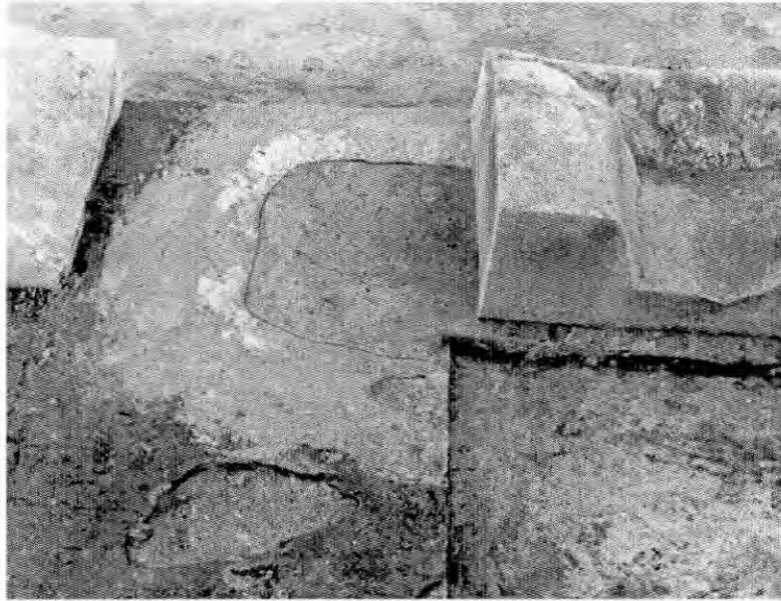


Figure 3.21. Light-colored soil over Structure 4b, 1940 (RLA image 501).

the postholes may be related to the construction needs of an earth-embanked structure. Two large, deep, interior postholes (0.9 to 1.5 ft in depth) probably represent the western half of a square arrangement of roof supports. A hearth (Feature 37/Mg2) and a flexed burial (Burial 45 and 46/Mg2) were located within the roof supports. While these two features are clearly within Structure 4b and would not appear to be a part of Structure 4a because the hearth would be next to a wall and the burial would be outside, these features do appear to be related to Structure 4a. If the east-west line through the two burials and two hearths that bisects Structure 4a was extended to the west, it would intersect the hearth and burial within Structure 4b as well as the structure's northwest support post (Figure 3.20). Additionally, the burial within Structure 4b appears to be oriented north-south, which is the same as Structure 4a, but different than the orientation of Structure 4b. It is possible that these features were associated with Structure 4a, either as part of a construction episode that has not been identified or they are within a portion of the structure that has not been recognized (e.g., a rear portico). Alternatively, these features could have been placed within Structure 4b in reference to known features of Structure 4a, even though the structures could not have been standing at the same time.

Structure 23a and Structure 23b are two rectilinear structures that were joined by an entrance trench. Structure 23a is the smaller of the two, measuring 23 ft on a side, and it is also more complete. Structure 23a is referred to as Structure C in the Town Creek field notes (Coe 1937; Swart 1940b) and as "the earthlodge" in subsequent publications (Coe 1995:65). Structure 23a clearly had earth-embanked walls. The mound was built over the top of this structure and the northeastern corner of its earth-embanked wall was preserved by being incorporated into the mound fill (Figure 3.22) (Coe 1995:68). This corner was isolated and

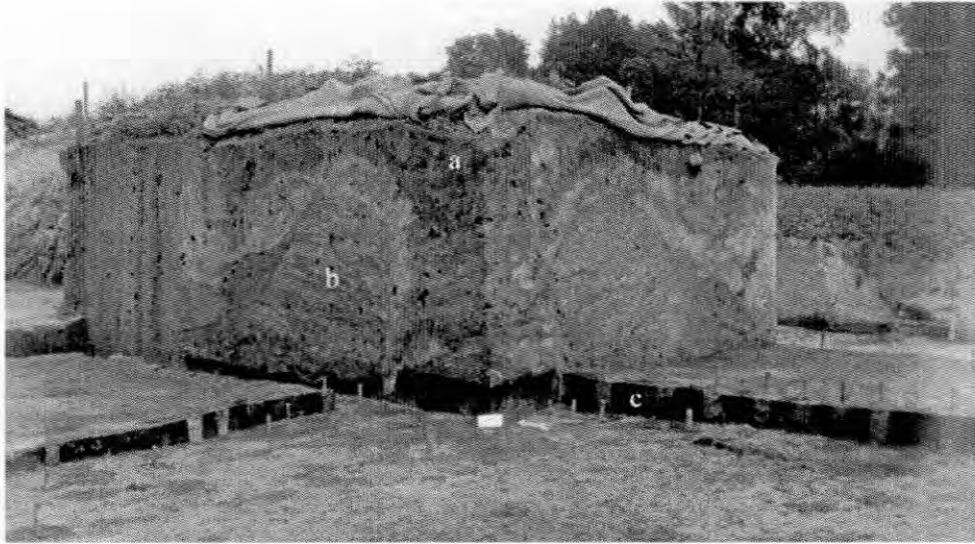


Figure 3.22. Earth-embanked wall and postholes at northeastern corner of Structure 23a, 1937: (a) moundfill (b) earth-embankment (c) Structure 23a postholes, marked by stakes, intruding Level A (RLA image 191).

treated as a discrete unit during excavation. This portion of the wall clearly showed a 3.5 ft tall earthen embankment on the exterior of the structure packed against wall posts on the interior (Figure 3.23) (Coe 1995: Figure 4.12). Structure 23a had an entrance trench, which is consistent with its walls being earth-embanked (see Hally 1994:154), near its southeastern corner on the side facing the plaza (Figure 3.24). A field map of the overall Mg2 excavations shows that the earth-embankment around Structure 23a was 4 to 6 ft wide at its base, extended around the entire structure, and that it tapered in thickness inward toward the end of the entrance trench (Figure 3.25).

The northeast corner of Structure 23a superimposes Burial 41/Mg2, which I have attributed to Structure 4a. This could simply be a coincidence. Alternatively, Structure 23a and its interior features could have been arranged in reference to this and other features associated with Structure 4a. Burial 41/Mg2 is in a northeast-southwest-oriented line with two other burials in Structure 4a. If this line is extended to the southwest, it would bisect Structure 23a—passing through its northeast and southwest corners—and intercept or nearly intercept two support posts, the hearth, and an infant burial (Figure 3.20).

The interior of Structure 23a contained four large, deeply set roof support posts arranged in a square and a large hearth within this space. A cluster of three infant burials was located in the structure's northeast corner. This is an area where several of the pre-mound structures overlap, so it is not clear with which structure these burials were associated. I have attributed them to Structure 23a because they seem to be spatially distributed relative to that structure, occurring between its northeastern interior support post and northern wall. One of these burials (Burial 10/Mg2) is adjacent to and superimposed by Structure 23a's northeast interior roof support. A fourth infant burial (Burial 11/Mg2) was



Figure 3.23. Earth-embanked wall and postholes at northeastern corner of Structure 23a, 1937: (a) moundfill (b) earth-embankment (c) Structure 23a postholes, marked by stakes, intruding Level A (RLA image 190).



Figure 3.24. Excavation of Structure 23a, 1937 (RLA image 200).

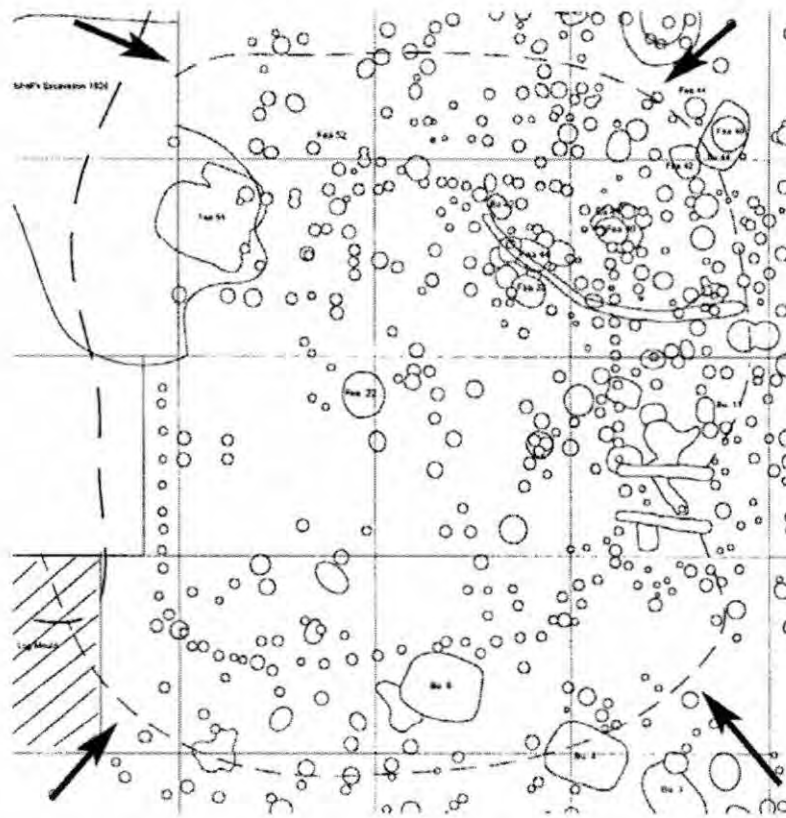


Figure 3.25. Field map of Mg2 showing the base of the earthen embankment (marked by dashed line and arrows) surrounding Structure 23a.

located in the line of posts that compose Structure 23c's west wall. Although the relationships among this cluster of infant burials and Structures 23a and 23c are unclear, it is possible that these burials were related to the construction of these two structures.

Ethnohistoric accounts by the French around 1700 document the ritual sacrifice of infants associated with public buildings among Mississippian groups in the Lower Mississippi Valley (Butler 1934:41; Kenton 1927:339). Mississippian public buildings have also been associated with isolated infant burials (Peebles and Kus 1977:439-440). Additionally, the bones of infants have been associated with high-status burials at Moundville in west-central Alabama (Peebles and Kus 1977:439) and at the contemporaneous Kellogg Village site in the adjacent Tombigbee River Valley of east-central Mississippi (Atkinson et al. 1980:171; Blitz 1993a:164). In these cases, it is possible that the remains of infants were part of a ceremonialism that was associated with the highest ranking members of society (Atkinson et al. 1980:171; Blitz 1993a:165). Thus, based on the relationship in Mississippian societies between infant remains and high-status individuals and infant burials and public buildings, it is possible that the cluster of infant burials in Structures 23a and 23c represents a ceremonialism that involved infants, although the situation at Town Creek is not as clear as at other Mississippian sites and is certainly open to alternative interpretations.

The entrance trenches of Structure 23a connect to the west wall of Structure 23c. Structure 23c is a very large rectangular structure, measuring 50-x-33 ft, located adjacent to the plaza. It has the same orientation as Structure 23a. With the exception of a few basins on its south end, I have not been able to associate any interior features with this structure. This is not surprising because of the complexity of the archaeological record, with at least four structures overlapping, and because this is the portion of Mg2 that would have been most

disturbed by the earlier mule and drag pan excavations. As discussed above, an infant burial (Burial 11/Mg2) was located near the entrance trenches for Structure 23a in the line of posts comprising Structure 23c's west wall. The fact that interior support posts could not be defined for Structure 23c could mean that it did not have a roof and was more like an enclosure or that it was a lightly constructed building with a much less substantial roof than other rectilinear structures.

Palisade Group 2

Palisade Group 2 consists of at least five and possibly six concentric palisade lines that completely surround the excavated portions of Town Creek. These palisade lines were exposed in four different areas of excavation, but a link between two areas was made in only one case. Therefore, it is unclear how individual palisade lines in one area relate to individual palisade lines in another. Palisade Group 2 is included here because the Mound Area contained most of its segments that were excavated. The concentric lines of postholes that compose Palisade Group 2 are widely spaced on the northern and southern sides of the site, but much more closely spaced in the Mound Area. This is probably due to the site's topography. The western extent of the innermost palisade of Palisade Group 2 was placed near the edge of the terrace on which the site is located, leaving little room for expansion in this direction. Palisade Group 2 does not appear to have had any bastions, although a small, circular arrangement of posts associated with the innermost palisade line in the northern part of the site has been interpreted as some sort of defensive entryway (Coe 1995:87).

Mound Stratigraphic Sequence

Portions of the earth-embanked wall of Structure 23c were incorporated into the fill of the mound (Figures 3.22 and 3.23), so clearly this was the last premound structure in the Mound Area. An ash layer that contained a number of burned logs was located stratigraphically above Structure 23c and below the first mound construction stage (Figure 3.26) (Swart 1940b). This ash and log layer covered an approximately 60- \times -30-ft area with the earthlodge at its southern end (Coe 1937; Lowry 1939:5). It is unclear how far the ash layer originally extended to the north of the earthlodge. A number of impressions of logs were documented at the base of the moundfill immediately above the ash layer (Figure 3.27) (Swart 1940b). The fact that this ash layer covered a large area and that the logs were all oriented either parallel or at right angles to each other suggests that this was not a chance burning episode. Thus, it seems that the ash layer and burned logs represent a planned incident that took place prior to mound construction, perhaps the destruction of an as yet unidentified structure or some other ritual event.

The first step in the mound-building process at Town Creek seems to have been the construction of what Coe (1995:69-70) called a premound embankment (Reid 1985:25; Swart 1940a). This embankment was made of mixed clay walls that were 3 to 4 ft tall and approximately 4 ft thick at the base (Figures 3.28 and 3.29) (Swart 1940b). The overall configuration of the embankment was a square, the outer dimensions (i.e., from exterior base to exterior base) of which were approximately 75 ft on a side. The embankment wall, at its top and along its interior slope, was covered by several layers of moundfill. The profile drawings show several linear layers of moundfill that slope down from their highest along the



Figure 3.26. Photograph showing the pre-mound embankment stratigraphically above the layer of burned logs, 1940: (a) burned logs and ash (b) Structure 4b (c) pre-mound embankment (RLA image 501).

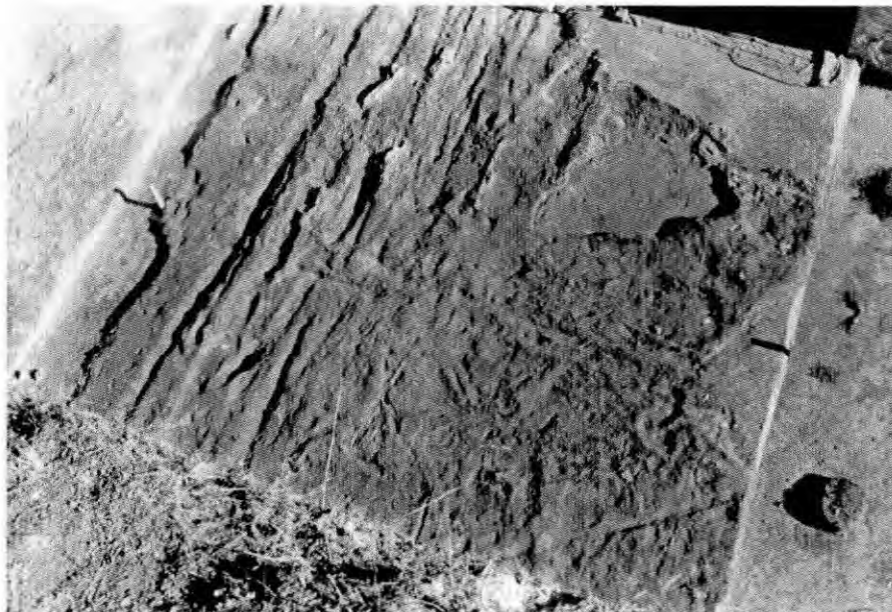


Figure 3.27. Portion of burned logs and ash layer beneath the mound, 1938 (RLA image 380).



Figure 3.28. Section of mound profile, 1937: (a) moundfill (b) premound embankment (c) Level A (RLA image 81).

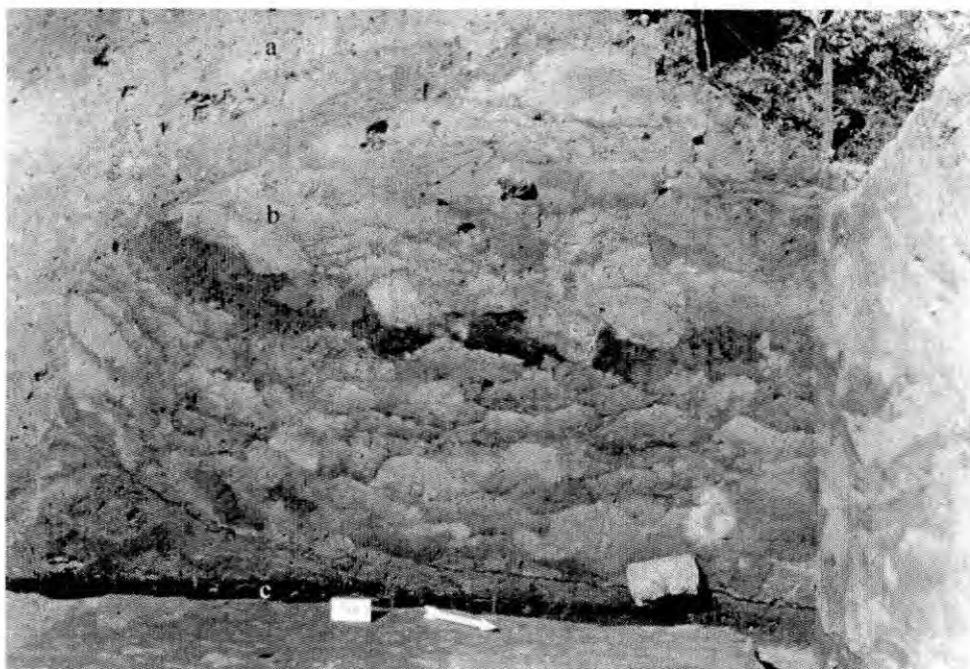


Figure 3.29. Section of mound profile: (a) moundfill (b) premound embankment (c) Level A.

embankment wall toward their lowest point within the interior of the enclosure, indicating that the embankment was filled from the exterior inward (Figures 3.30 and 3.31). Based on all of this, it seems that the function of the embankment was to delineate and provide a container for the first stage of mound construction (see Coe 1995:81). The interior of the embankment was filled up to a level about 1 ft above the top of the embankment itself. Based on the profile drawings, roughly half of the mound was constructed with this first stage. This first mound stage had a flat surface and was approximately 5 ft tall. It is likely that this flat mound summit contained one or more public buildings, but excavations did not get down to this surface because a 40-x-70 ft block was left unexcavated near the center of the mound. The first mound-construction stage as I have defined it was not recognized in previous interpretations of Town Creek which, instead, considered all of the moundfill beneath the lower pair of excavated summit structures as part of the same construction episode (Coe 1995:81; Reid 1985:25).

The second mound-construction stage was much smaller than the first. It was only about 2 to 3 ft thick and accounted for roughly a quarter of the mound's final volume. The western edge of the summit of this second mound-construction stage contained two buildings, Structures 45a and 45b. These two structures collectively are referred to as either "Townhouse I" or "Temple I" in the field notes and drawings (see Coe 1995:74). Large areas of daub on this surface were seen as an indication that these structures had burned (Coe 1995:77). The surface that contained Structures 45a and 45b (i.e., the second mound construction stage) was superimposed by a thin layer, 3 to 6 inches thick, of dark soil. This layer is referred to as the "1st Habitation Level" or the "1st Occupation Level" in the drawings and field notes. It is possible that this dark soil represents a mound-summit midden

Figure 3.30. Mound profile along the L10 line.

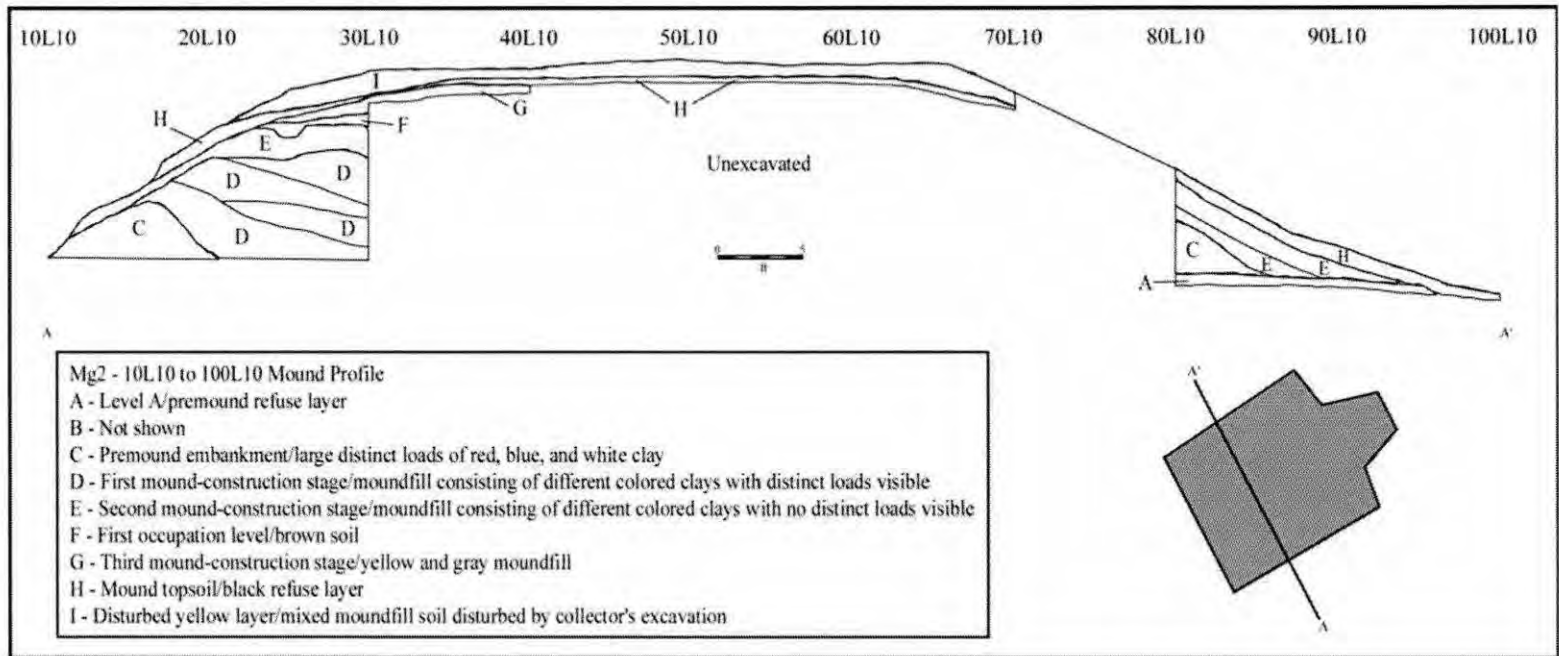
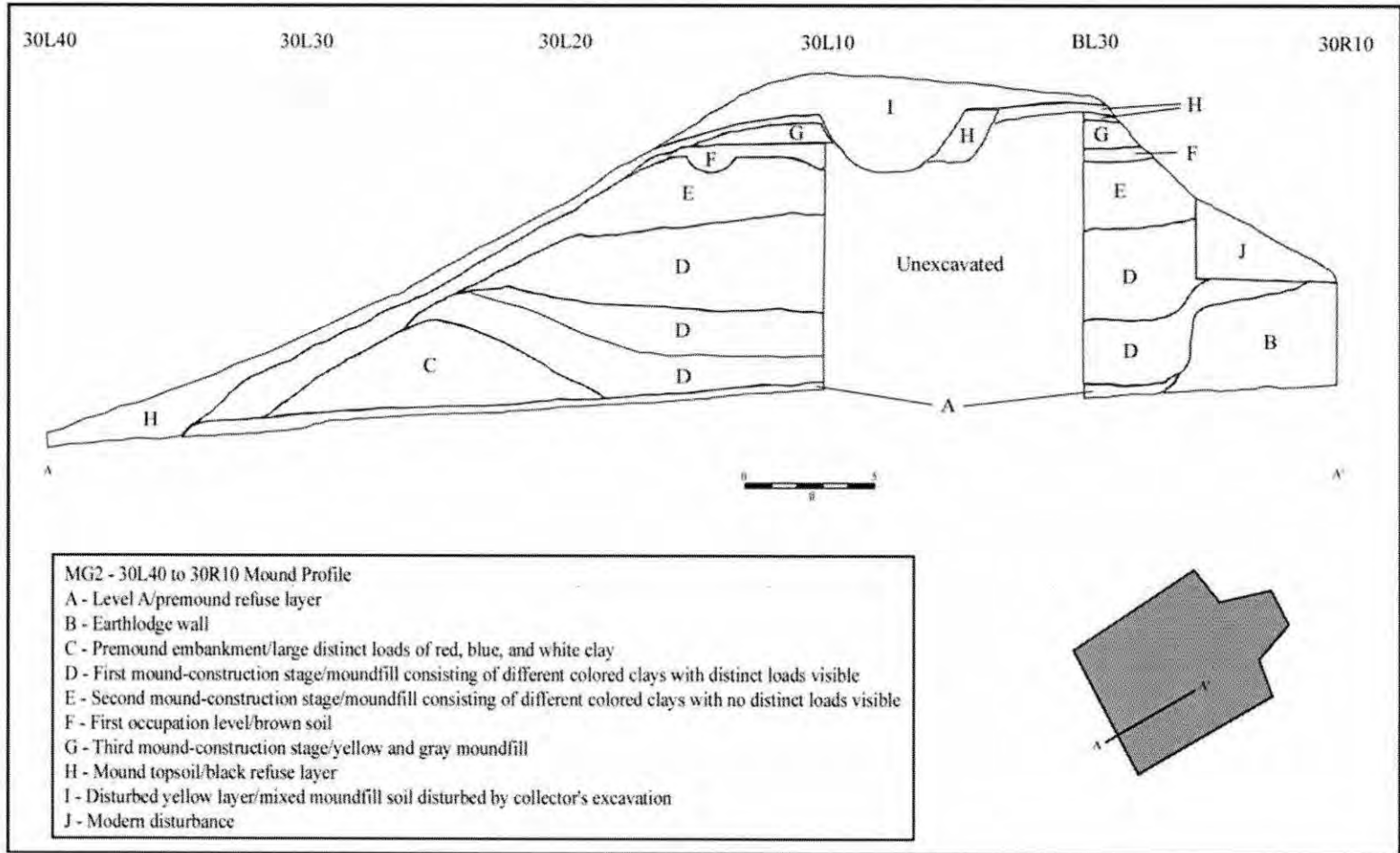


Figure 3.31. Mound profile along the 30 ft line.



associated with Structures 45a and 45b, although what exactly is represented by this layer is unclear.

The third construction stage consisted of a layer of moundfill, from about 1 ft to just a few inches thick, located stratigraphically above the dark layer of soil that superimposed the second mound construction stage, Structure 45a, and Structure 45b. Not only was the third construction stage not very thick, but, unlike previous stages, it did not cover the entire mound. The third mound-construction stage was restricted to the mound summit, whereas the first and second mound-construction stages had covered the sides of the mound as well. The summit of the third construction stage contained two Structures, 46a and 46b, arranged identically to those on the previous summit of the second mound-construction stage. These structures are referred to as "Townhouse II" or "Temple II" in the notes and drawings (see Coe 1995:74). The presence of burned wooden timbers and daub indicated that these structures had also burned (Coe 1995:74).

The third mound-construction stage was covered by a dark layer, about 4 inches thick on the summit and about 1 ft thick further downslope, that was called the Mound Topsoil by the excavators. This was covered by a layer of yellow moundfill, between 6 and 18 inches thick, that was present only on the mound's summit. The interpretation of these two layers is not as straightforward as I would like. The upper layers of the mound had been disturbed before they were excavated professionally, so there was a great deal of mixing of the soil. Also, these layers were worked on early in the site's excavation history and the level of detail that was recorded at this time was relatively low. It is possible that the dark layer represents a mound-summit midden and that the yellow layer represents the fourth mound-construction stage. Alternatively, it is also possible that the dark layer represents what was the uppermost

level in the mound prior to the arrival of looters and that the yellow layer represents their backdirt piles (Reid 1985:25; Swart 1940c). This yellow layer was the uppermost stratigraphic level identified by the excavators.

Two midden layers also are part of the mound sequence. Level A was a premound midden that extended beneath most of the mound and is clearly visible in many of the field photographs. It was located stratigraphically beneath the premound embankment and Structures 23a and 23c (Swart 1940b). Level X was a mound-flank midden on the mound's south side (Reid 1985:26). Coe first encountered this layer in a test trench into the mound (Figure 3.32) (1995:62 and Figure 4.2). After the full excavation of the mound began, this layer was isolated and excavated as a discrete unit.⁶

Mound-Summit Structures

Any materials associated with the structures located on the eastern half of the mound, the side adjacent to the plaza, were destroyed by a mule-driven drag pan prior to the arrival of Coe in 1937. Fortunately, the excavators were able to identify structures on the portion of the mound's summit that remained. Parts of structures were identified on the summits of two construction stages. These structures were nearly identical in their layout, although they were separated by a layer of moundfill and were clearly distinct. Each summit of these two stages appears to have contained two structures connected by entrance trenches, the presence of which indicates at least one or perhaps both structures in each pair were earth-embanked (see Hally 1994:154). The orientation of these structures parallels that of the mound. In both cases, the structure on the north side appears to be slightly smaller than the structure on the

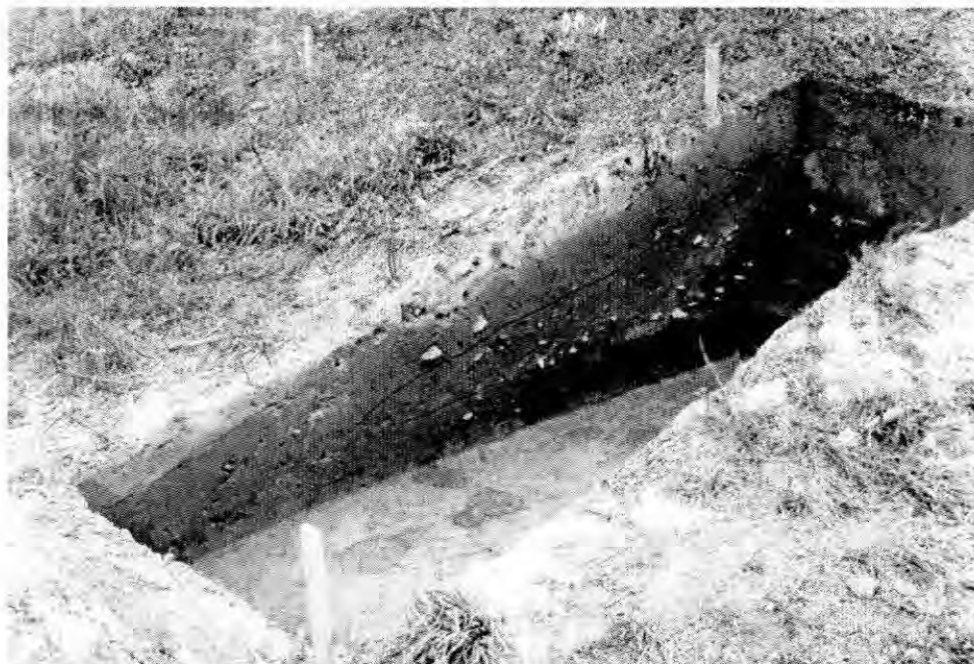


Figure 3.32. Test trench into the mound showing Level X, outlined with protruding artifacts, 1937 (RLA image 61).

south side. It appears that both of the northern structures were completely excavated while only a small portion of each southern structure was exposed.

The earlier of these two structure pairs—referred to variously as “Temple I” and “Townhouse I”—was discussed by Coe (1995:74), but I have been unable to locate the original field maps. Thus, my description of this structure’s spatial layout is based on Coe’s published map. On this earlier summit, the structure to the north (Structure 45a) is small and nearly square (27-x-28 ft) with slightly rounded corners (Figure 3.33). This square pattern consisted of two rows of posts. This double row of postholes could indicate that the structure was repaired or rebuilt in place at least once or it could be related to the construction requirements of a structure with earth-embanked walls. Four large, round features arranged in a square are likely interior roof supports. A centrally located, prepared clay hearth, two flexed burials (Burials 59 and 61/Mg2), and an empty pit (Feature 29/Mg2) were located within the area defined by the roof supports (Figure 3.34). Entrance trenches extended from this structure’s south wall into a single row of posts that presumably was part of the north wall of another summit structure (Structure 45b). Only a portion of Structure 45b’s north wall and possibly part of its northwest corner were exposed. Structure 45b contained a single flexed burial (Burial 60/Mg2) and an empty pit (Feature 15/Mg2). These structures were burned.

The patterns on the later mound summit are much less clear. This summit presumably contained paired structures because its features consist of an entrance trench between two undifferentiated clouds of postholes (Figure 3.35). Using Structure 45a as a model, the west wall of the northern structure (Structure 46a) can be delineated. This structure contained the base of a daubed wall (Feature 57/Mg2) (Figure 1.11)—which was

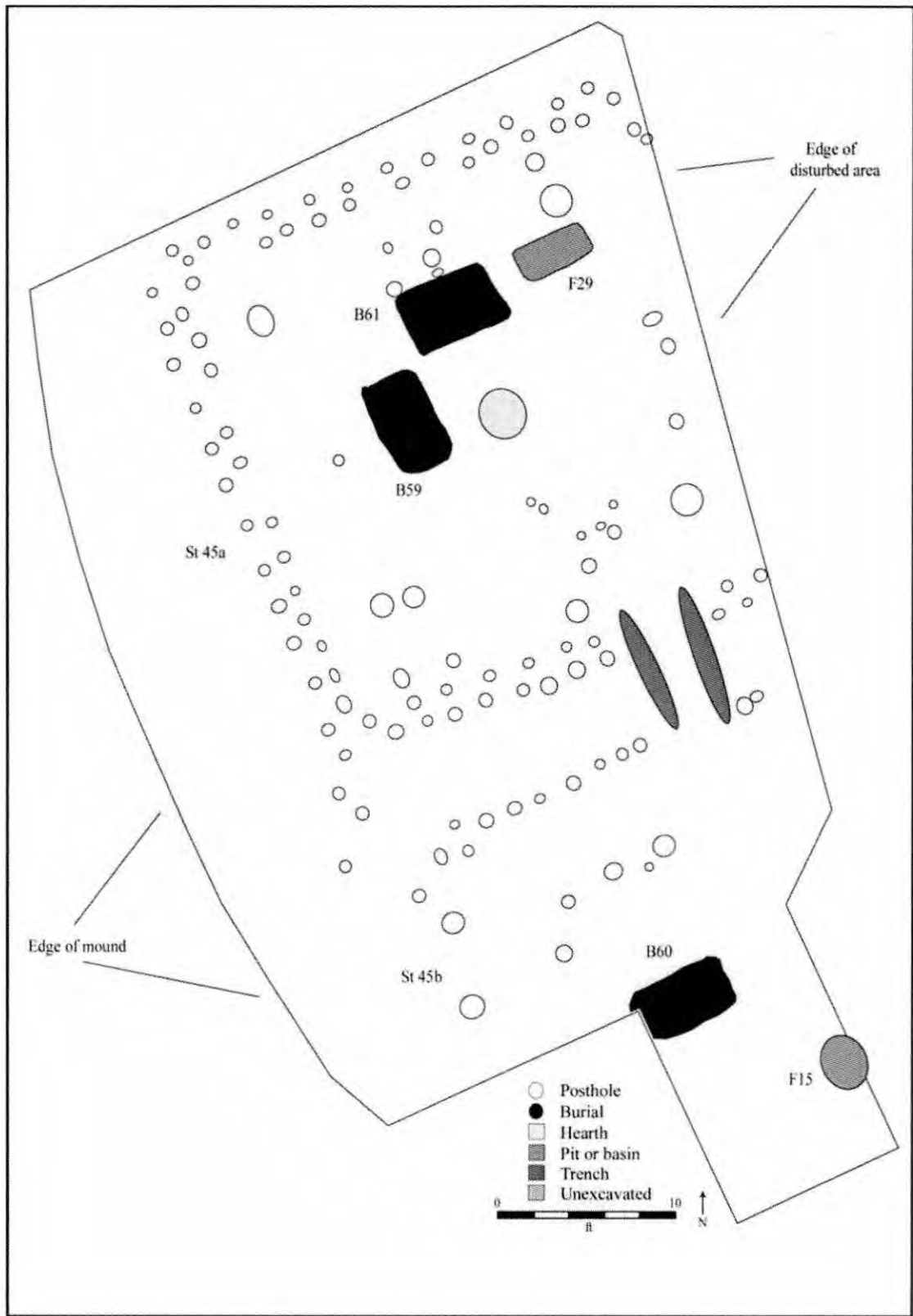


Figure 3.33. Structures 45a and 45b on the mound summit.



Figure 3.34. Features associated with Structure 45a (background) and 45b (foreground) on the mound summit (RLA image 1592).

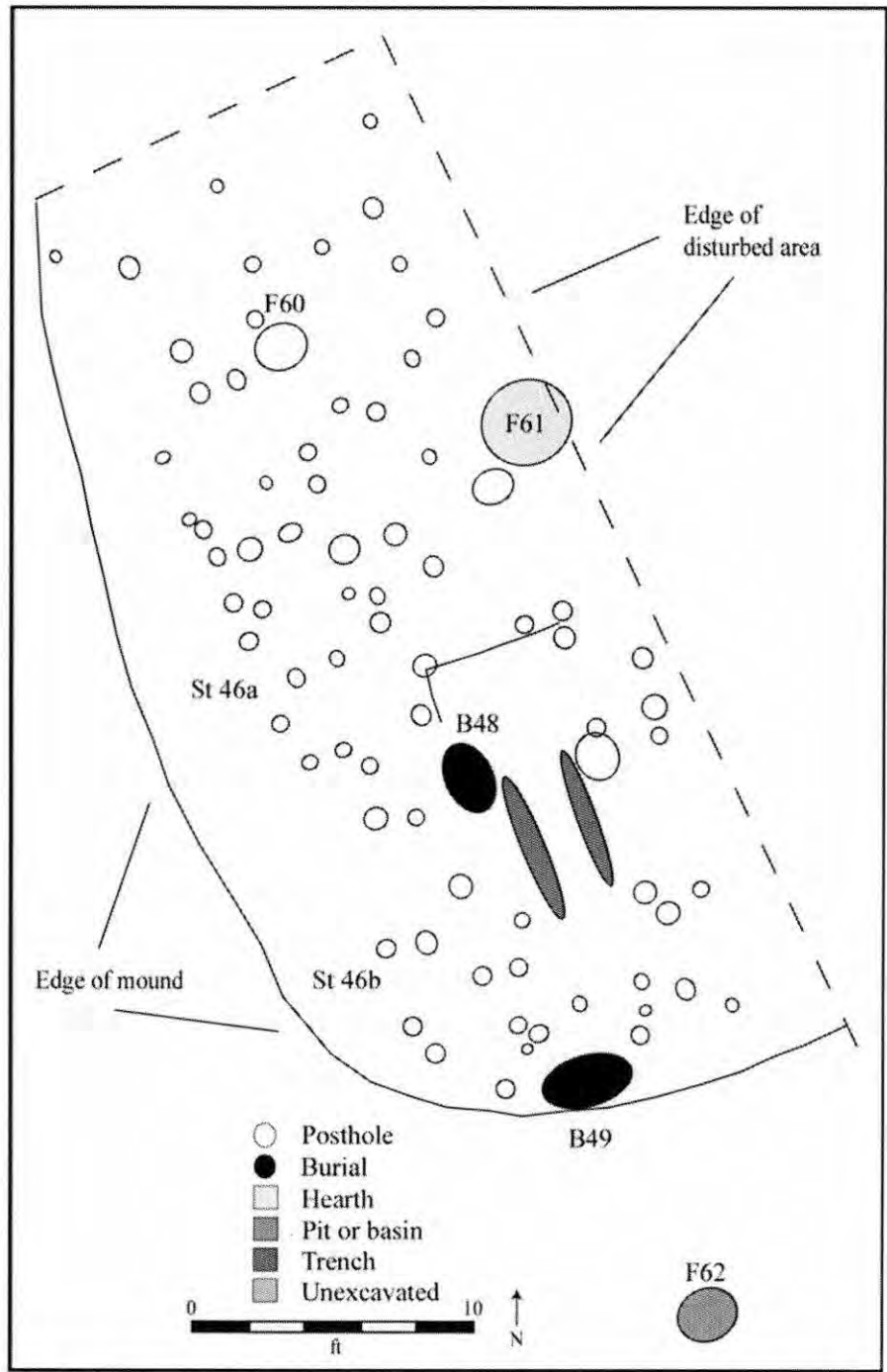


Figure 3.35. Structures 46a and 46b on the mound summit.

interpreted as an internal partition (Coe 1995:74)—near the entrance trench as well as a bundle burial (Burial 48/Mg2) and a large, central, prepared-clay hearth (Feature 61/Mg2). A large, deep posthole (Feature 60/Mg2) probably held the structure's northwest interior roof support. The structure to the south (Structure 46b) contained one bundle burial (Burial 49/Mg2) and a large, deep pit (Feature 62/Mg2) that may have held one of its interior roof supports. This structure pair was referred to as "Temple II" or "Townhouse II" (Coe 1995:74). Similar to the structures on the earlier mound summit, structures 46a and 46b were burned.

The configuration of mound summit and submound buildings at Town Creek is reminiscent of the configuration documented in sixteenth-century, mound-summit contexts at the Dyar site (Figure 3.36) which are attributed to the Late Lamar, Dyar phase (Hally 1994:157; Smith 1994:34-38). The upper levels of the Dyar mound contained several construction stages and numerous structure rebuildings (Smith 1994:34-38), but there is a consistent pattern to the configuration of these sequential episodes of mound-summit architecture. This configuration consisted of two earth-embanked square structures located on the western half of the summit and one lightly constructed building that covered the entire eastern part of the summit (Hally 1994:157). Summits of the upper construction stages of the mound at Dyar consisted of two levels. Two rectangular structures possibly joined by a passageway were located on the higher, western half of the mound while a larger, more ephemeral structure was located on the lower, eastern half of the mound⁷ (Smith 1994: 38 and Figure 14). While there were no indications of the activities that may have taken place in the northwestern structure, the presence of *Ilex* pollen in three of the structures superimposed in the southwestern part of the mound suggested to Smith (1994:38) that this may have been

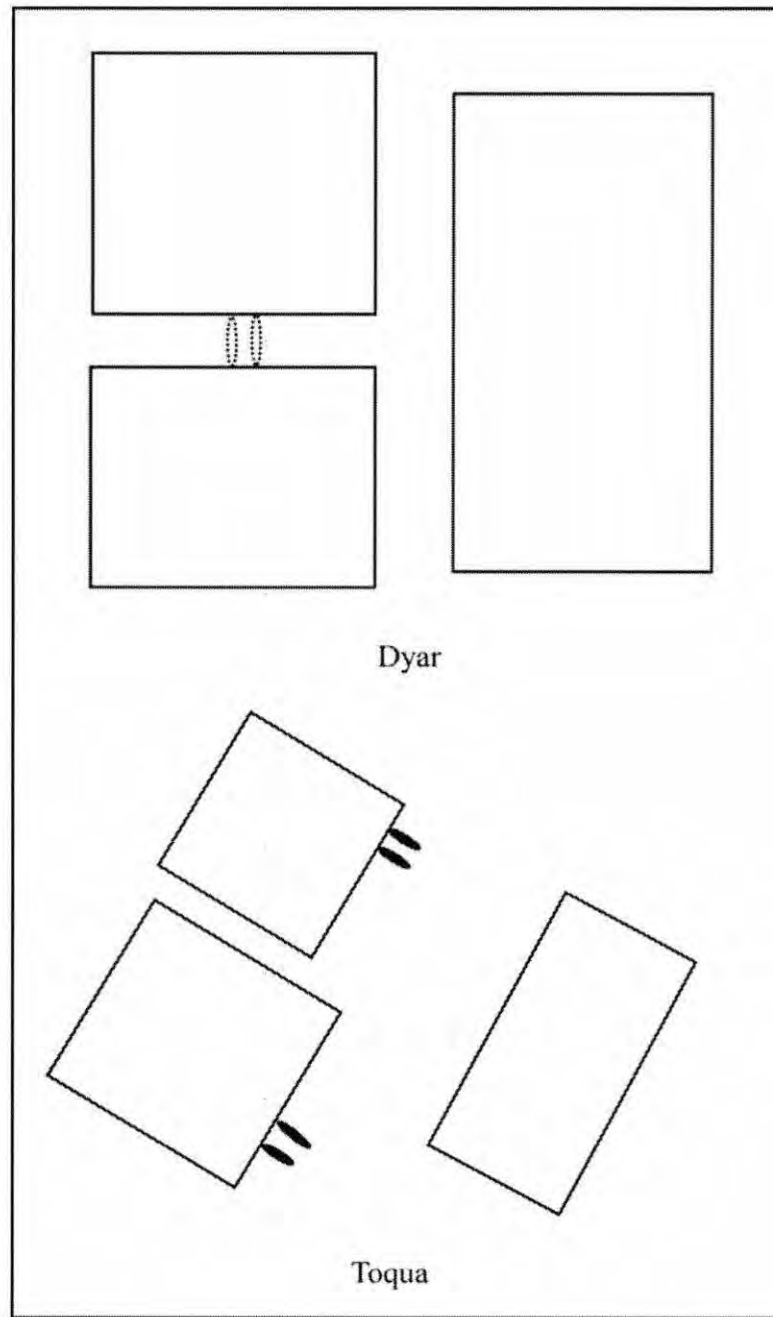


Figure 3.36. Schematic maps of mound-summit structures at the Dyar and Toqua sites (from Polhemus 1987 and Smith 1994).

a place for the preparation of Black Drink, a tea that was made and consumed during the Historic period in public contexts such as council houses (Hudson 1976:372-373). The floor of the shed-like structure on the eastern part of the mound was covered with midden refuse containing sherds and animal bones. Smith (1994:38) suggests that these deposits are the remains of either domestic activities or feasting. Unlike Town Creek, no burials were found in the Dyar mound (Smith 1994:40).

The mound and submound buildings at Town Creek are also similar to those on the summit of Mound A at the Dallas-phase Toqua site in eastern Tennessee (Figure 3.36) (Hally 1994:157). Construction of Mound A started around A.D. 1200. A repetitive pattern of paired, substantial structures on the western half of the summit and less substantial porch or portico structures on the eastern half of the summit began with this initial summit (Polhemus 1987:1213-1214, 1990:131). This pattern of one larger structure on the eastern side and smaller structures on the western side continued for some time.⁸ Polhemus (1987:1214) interpreted the smaller structures as the dwellings of high-status individuals and the larger structures as buildings with a more public function (Polhemus 1987:1214).

Public architecture in the mound area at Town Creek always seems to have consisted of some combination of large and small rectilinear structures. At some point prior to mound construction, these public buildings consisted of a small, square, earth-embanked structure joined by an entrance trench to a large, more ephemeral, rectangular structure. This was clearly the case with Structures 23a and 23c. It is possible that the earth-embanked Structure 4b was also joined to an as yet unidentified large, rectangular structure to the east. Unfortunately, there is no stage where the complete suite of public architecture for a mound summit could be documented at Town Creek. The summits of the uppermost mound stages

were disturbed. The eastern half of the second and third stages was destroyed by relic collectors. The summit of the first mound-construction stage was never reached by excavations as a block at the core of the mound was left unexcavated beneath the level of Structures 45a and 45b (i.e., the second mound construction stage). Thus, one can only speculate about the full complement of buildings that was located on each mound summit at Town Creek. One can make an informed guess, however, based on the premound pattern of public architecture, the portions of the summit buildings that are present, and the architectural patterns documented on mound summits at other South Appalachian Mississippian sites. It seems likely that the mound-summit buildings at Town Creek were arranged as follows: on the west side were two small, square, earth-embanked structures joined by an entrance trench; on the east side was a much larger, less substantial, pavilion-like structure to which one or both of the earth-embanked structures were attached by an entrance trench.

Sequence of Architectural Elements in the Mound Area

The analysis of stratigraphic relationships among structures and strata in the Mound Area (Figure 3.37) enables the development of a relative sequence of structure change. Once established, this sequence can be extrapolated to parts of the site where structures do not overlap or where the order of superposition is less clear. The fact that a portion of Structure 23a's earth-embanked wall was incorporated into the first construction stage of the mound indicates that it was the last premound structure to be used in this area. Otherwise, the interiors of other structures would have contained this large pile of dirt. Since Structure 23c was oriented the same as Structure 23a and the two appear to have been connected by an

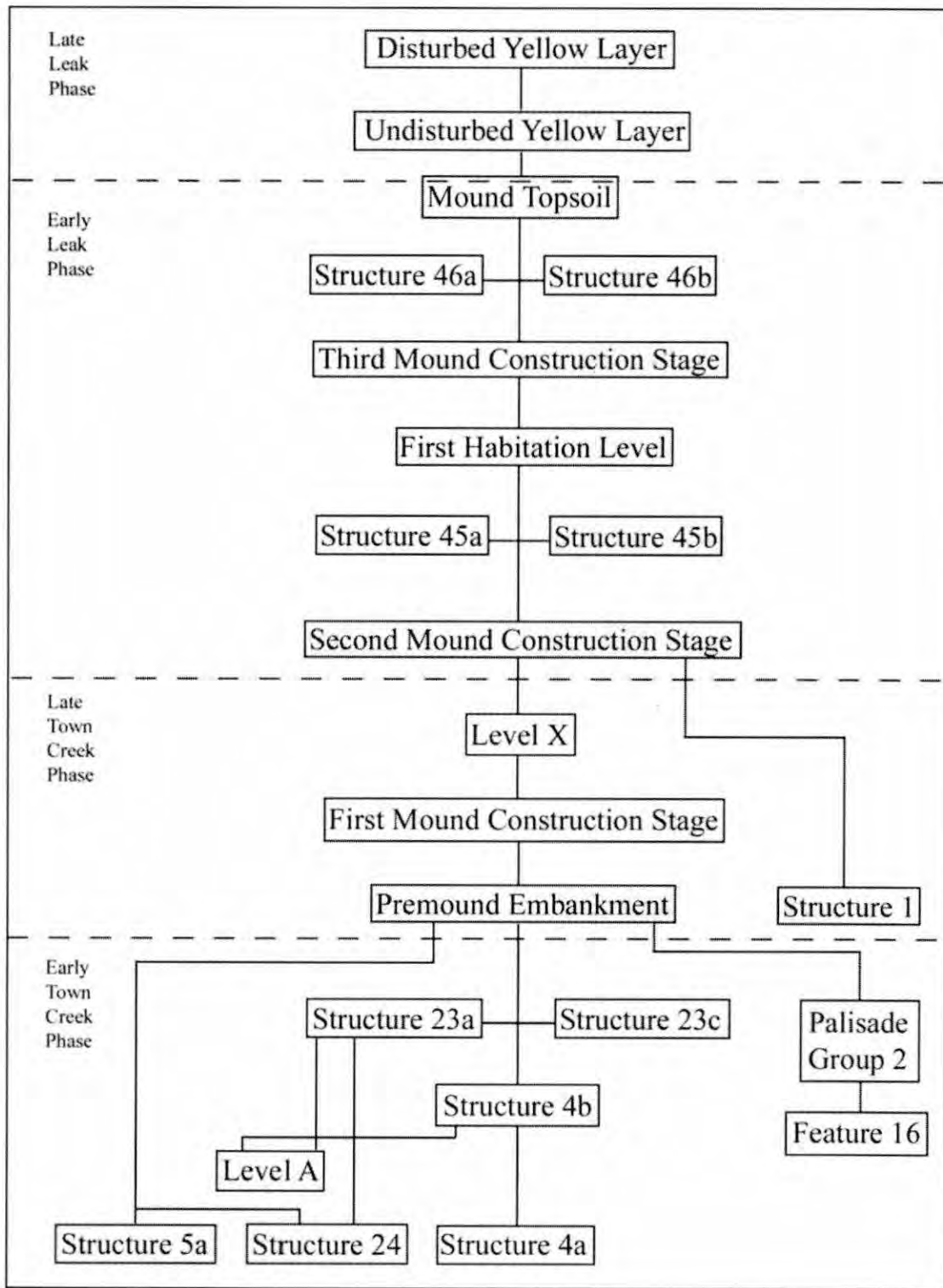


Figure 3.37. Schematic representation of the stratigraphic relationships in the Mound Area.

entrance trench, it can be assumed that both were the last ones in use prior to mound construction. Supporting this is the fact that the line of posts forming the back wall of Structure 23c intrudes into the hearth of Structure 4b, indicating that the former post-dates the latter.

If Structures 23a and 23c represent the later end of the premound architectural sequence, it is likely that Structure 24 represents the earlier end. Structure 24 and Structure 23a overlap, meaning they could not have been in use at the same time. If Structure 23a was the last in the area, then Structure 24 must predate it. Also, a posthole from the south wall of Structure 23a appears to intrude a burial within Structure 24 (Burial 6/Mg2) (Figure 3.38). Furthermore, this burial was located within the halo of lighter soil surrounding Structure 23a that represented the base of its earthen embankment. The fact that the field notes did not mention the burial cutting through this layer of lighter colored soil suggests that the base of Structure 23a's earth-embanked wall superimposed this burial located within Structure 24. The fact that Structure 4a is located near Structure 24 and the two are oriented the same suggests that they were related and in use at the same time.

While the stratigraphic relationship between Structures 4a and 4b is unclear, it seems likely to me, based on architectural style, that Structure 4b was used closer in time to Structure 23a. Structures 4b and 23a are approximately the same size, are rectangular with rounded corners, have four large interior roof supports, and had earth-embanked walls. Both of these structures, as well as Structure 23c, have the same northeast-southwest orientation, which is also what the subsequent orientation of the mound and summit structures will be. In contrast, Structure 4a is oriented to the cardinal directions.



Figure 3.38. Structure 23a after excavation with Burial 6/Mg2 in the foreground, 1937 (RLA image 195).

In summary, the sequence of submound structures based on superposition and architectural style is as follows. Structures 4a and 24 seem to have been used first, and it seems likely that they were in use at the same time. The next building was Structure 4b. Based on the pattern of earth-embanked structures to the west paired with more ephemeral structures to the east exhibited in the submound deposits at Town Creek as well as at the Dyar and Toqua sites, it is likely that Structure 4b also was paired with a large structure to its east that is currently indistinguishable in the palimpsest of features and postholes in that area. The final pre-mound buildings were the paired Structures 23a and 23c.

Chronological Information

In order to date the construction layers of the mound, all of the pottery from a 20-x-100-ft block of units that cross-cut the mound and intercepted each of its strata was analyzed (Figure 2.14). This block of units consisted of the two rows of excavation units west of and parallel to the Mg2 north-south baseline.⁹ The pre-mound midden Level A was attributed to the early Town Creek phase (Chapter 2) based on surface treatments and the predominance of plain rims (Tables 2.10 and 3.2). This means that the first mound construction at Town Creek dates to the early Town Creek phase or later. Additional evidence for the dating of the first mound construction comes from a stratigraphic relationship with Palisade Group 2. Palisade Group 2 in the Mound Area consists of four to six concentric lines of postholes. The inner 3 to 5 of these intrude Feature 16/Mg2 and are in turn superimposed by the mound (Figure 3.39). Feature 16/Mg2 dates to the end of the early Town Creek phase based on the presence of the rosettes rim mode (Figure 2.23). The fact that this feature is intruded by

Table 3.2. Surface treatments of large sherds (<4cm) in the baseline and L10 units from the mound.

Context	Brushed	Small Check St.	Curvi. Comp. St.	Rect. Comp. St.	Wide Rect. Comp. St.	Cordmarked	Fine Cordmarked	Fabric Marked	Net Impressed	Plain	Burnished Plain	Small Simple St.	Stamped	Textile Impressed	Unidentified	Total
Counts																
Level A	-	-	118	44	-	1	1	4	-	73	-	-	34	10	20	305
Premound embankment	-	-	13	6	-	-	-	-	-	13	-	-	8	7	2	49
Moundfill	-	-	12	11	-	-	-	2	-	34	-	1	8	4	4	76
Level X	-	-	65	15	-	1	-	2	-	82	-	-	15	14	8	202
Townhouse I	-	2	64	21	-	-	-	1	-	43	-	-	14	2	9	156
Townhouse II	-	-	3	1	-	-	-	-	-	-	-	-	-	1	-	5
Mound topsoil	1	4	124	31	1	2	1	0	5	120	2	4	40	15	10	360
Undisturbed yellow layer	-	-	36	8	-	-	-	-	-	33	-	1	11	3	6	98
Disturbed yellow layer	-	-	72	29	-	-	-	-	2	75	-	1	33	9	12	233
Total	1	6	507	166	1	4	2	9	7	473	2	7	163	65	71	1484
Percentages																
Level A	-	-	38.69	14.43	-	0.33	0.33	1.31	-	23.93	-	-	11.15	3.28	6.56	
Premound embankment	-	-	26.53	12.24	-	-	-	-	-	26.53	-	-	16.33	14.29	4.08	
Moundfill	-	-	15.79	14.47	-	-	-	2.63	-	44.74	-	1.32	10.53	5.26	5.26	
Level X	-	-	32.18	7.43	-	0.50	-	0.99	-	40.59	-	-	7.43	6.93	3.96	
Townhouse I	-	1.28	41.03	13.46	-	-	-	0.64	-	27.56	-	-	8.97	1.28	5.77	
Townhouse II	-	-	60.00	20.00	-	-	-	-	-	-	-	-	-	20.00	-	
Mound topsoil	0.28	1.11	34.44	8.61	0.28	0.56	0.28	-	1.39	33.33	0.56	1.11	11.11	4.17	2.78	
Undisturbed yellow layer	-	-	36.73	8.16	-	-	-	-	-	33.67	-	1.02	11.22	3.06	6.12	
Disturbed yellow layer	-	-	30.90	12.45	-	-	-	-	0.86	32.19	-	0.43	14.16	3.86	5.15	

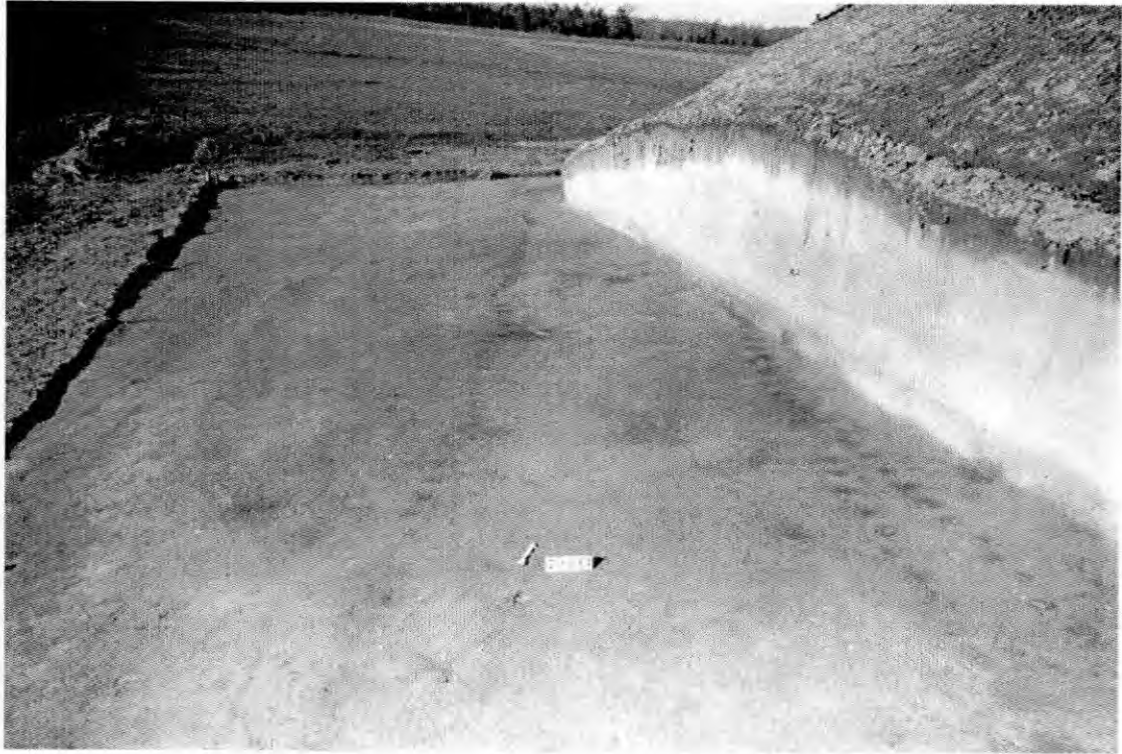


Figure 3.39. Palisade lines superimposed by the mound, 1940 (RLA image 842).

portions of Palisade Group 2 that are then covered by the mound indicates that the first mound construction at Town Creek dates to the period including the end of the early Town Creek phase, approximately A.D. 1250.

Surface treatments and rim modes indicate that Level X dates to the late Town Creek phase which suggests that activities associated with the first mound summit date to the late Town Creek phase or later. The association of a noded rim with Townhouse I (Structures 45a and 45b) on the summit of the second mound-construction stage is consistent with it dating to the early Leak phase or later. The third mound-construction stage, which had Townhouse II (Structures 46a and 46b) on its summit, was superimposed by the Mound Topsoil. The two lowest levels of the Mound Topsoil contained punctated rim strips, indicating they date to the early Leak phase or later, while the uppermost level contained notched rim strips, indicating that it dates to the late Leak phase or later. Few temporally diagnostic artifacts were found in the undisturbed yellow layer, which may represent the fourth stage of mound construction, but the disturbed yellow layer—possibly the fifth construction stage—contained a notched rim strip indicating that it dates to the late Leak phase or later. In addition to pottery, the upper layers of the mound also contained a number of glass beads indicating that activities took place on the mound after contact with Europeans.

In summary, mound construction began at Town Creek around A.D. 1250 at the end of the early Town Creek phase or the beginning of the late Town Creek phase. It is clear that summit activities took place by the late Town Creek phase or later. The buildings that were excavated on the mound summit (Structures 45a, 45b, 46a, and 46b) date to the early Leak phase or later. The mound construction stages above these structures date to the early and

late Leak phase or later. Glass beads in the uppermost layers of the mound indicate that activities continued on the mound during the Caraway phase or later.

If the first mound construction at Town Creek dates to the end of the early Town Creek phase, then all of the structures (Structures 4a, 4b, 5a, 23a, 23c, and 24) clearly superimposed by the mound would have to date to the early Town Creek phase or earlier. Additional chronological information comes from the relationship of some structures to the premound midden Level A. The field notes state that Structures 23a and 4b were on top of Level A with their postholes originating from above this level (Swart 1940b). Level A dates to the early Town Creek phase. If Structures 23a and 4b superimpose Level A, then they must date to the early Town Creek phase or later. Coupled with the fact that the premound structures must date to the late Town Creek phase or earlier, it seems likely that Structures 4b and 23a—and presumably 23c since it was connected to 23a—date to the end of the early Town Creek phase or the beginning of the late Town Creek phase.

The field notes discuss the fact that postholes associated with earlier structures were visible once Structures 4b and 23a had been removed (Swart 1940b). These postholes were observed at the top of Level A (Swart 1940b). If these earlier posts were associated with Level A, that could mean that Structures 4a and 24 date to the early Town Creek phase. Two radiocarbon dates obtained for this research are consistent with these two structures dating to the early end of Town Creek's Mississippian occupation. A date of A.D. 1130 \pm 40 (cal. A.D. 1187-1261) on a corn cob from the hearth (Feature 20/Mg2) at the center of Structure 4a places the use of this structure within the early Town Creek phase.¹⁰ A date of A.D. 1010 \pm 40 (cal. A.D. 1033-1153) on a corn cob from a pit (Feature 54/Mg2) within Structure 5a suggests that it predates Structure 4a and may date to as early as the Teal phase.¹¹

late Leak phase or later. Glass beads in the uppermost layers of the mound indicate that activities continued on the mound during the Caraway phase or later.

If the first mound construction at Town Creek dates to the end of the early Town Creek phase, then all of the structures (Structures 4a, 4b, 5a, 23a, 23c, and 24) clearly superimposed by the mound would have to date to the early Town Creek phase or earlier. Additional chronological information comes from the relationship of some structures to the premound midden Level A. The field notes state that Structures 23a and 4b were on top of Level A with their postholes originating from above this level (Swart 1940b). Level A dates to the early Town Creek phase. If Structures 23a and 4b superimpose Level A, then they must date to the early Town Creek phase or later. Coupled with the fact that the premound structures must date to the late Town Creek phase or earlier, it seems likely that Structures 4b and 23a—and presumably 23c since it was connected to 23a—date to the end of the early Town Creek phase or the beginning of the late Town Creek phase.

The field notes discuss the fact that postholes associated with earlier structures were visible once Structures 4b and 23a had been removed (Swart 1940b). These postholes were observed at the top of Level A (Swart 1940b). If these earlier posts were associated with Level A, that could mean that Structures 4a and 24 date to the early Town Creek phase. Two radiocarbon dates obtained for this research are consistent with these two structures dating to the early end of Town Creek's Mississippian occupation. A date of A.D. 1130 \pm 40 (cal. A.D. 1187-1261) on a corn cob from the hearth (Feature 20/Mg2) at the center of Structure 4a places the use of this structure within the early Town Creek phase.¹⁰ A date of A.D. 1010 \pm 40 (cal. A.D. 1033-1153) on a corn cob from a pit (Feature 54/Mg2) within Structure 5a suggests that it predates Structure 4a and may date to as early as the Teal phase.¹¹

Structure 5b is a small, rectangular building located on the north side of the Mound Area. This structure was not superimposed by the mound. Structure 5b intruded a Leak-phase burial and must date to this phase or later.

Structure 1 was located adjacent to the south side of the premound embankment, suggesting that the two could have been used at the same time. If the first mound construction at Town Creek occurred during the late Town Creek phase, then Structure 1 may date to this phase as well. This structure could not have been standing during later phases, though, because it would have been covered by subsequent mound-construction stages. Therefore, Structure 1 dates to the late Town Creek phase or earlier. The fact that Leak-phase burials were present within this structure indicates that they were placed there at a point when the structure was no longer standing.

Palisade Group 2 in the Mound Area consists of 4 to 6 concentric lines of postholes. The inner palisade lines in the Mound Area date to the end of the early Town Creek phase. The inner 3 to 5 of these are superimposed by the mound, meaning that they must date to the end of the early Town Creek phase or earlier. Additionally, these inner palisade lines intrude a terminal early Town Creek-phase pit (Feature 16/Mg2), indicating that they date to this phase or later. The outermost palisade line in this area was not beneath the mound and both could date to the same period. In the southern part of the site, the second innermost palisade contained a Leak-phase posthole, indicating that this post was removed or replaced during this phase or later.

Eastern Area

At least six structures (Structures 12, 14, 22, 30b, 49, and 51) and a rectangular enclosure (Enclosure 1) were excavated in the area adjacent to the Little River on the eastern edge of the site (Figures 3.40 and 3.41). Additionally, several clusters of burials were identified that could not be definitively associated with particular structures. As was the case with the Mound Area, the archaeological record of the Eastern Area is complex because of the overlap among structures and burial clusters.

Structures

At least three overlapping structures were located near the center of the Eastern Area (Figure 3.42). Structure 12 is a circular building that measured 31 ft in diameter, the interior of which contained 16 burials. Structure 22 was a square building measuring 21 ft on a side with an entrance trench on its west wall that faced the plaza. This structure has been referred to as the “priest’s house” or the “minor temple” in the Town Creek literature (Coe 1995). Although there was no direct evidence of an earthen embankment surrounding Structure 22, the entrance trench can be used to infer the presence of such a feature at one time (see Hally 1994:154). In the case of Structure 22, it is likely that the remains of the embankment were obliterated by plowing. It is possible that a linear discoloration at the base of the plowzone that parallels one of this structure’s walls in one of the field photographs from this area represents what remained of the earth-embankment at the time of excavation (Figure 3.43).

The interior of Structure 22 contained a square arrangement of four large, deep postholes. Lines of smaller postholes can be seen between these larger ones, indicating the presence of benches or other interior furniture. It is unclear which, if any, of the burials



Figure 3.40. All features in the Eastern Area.

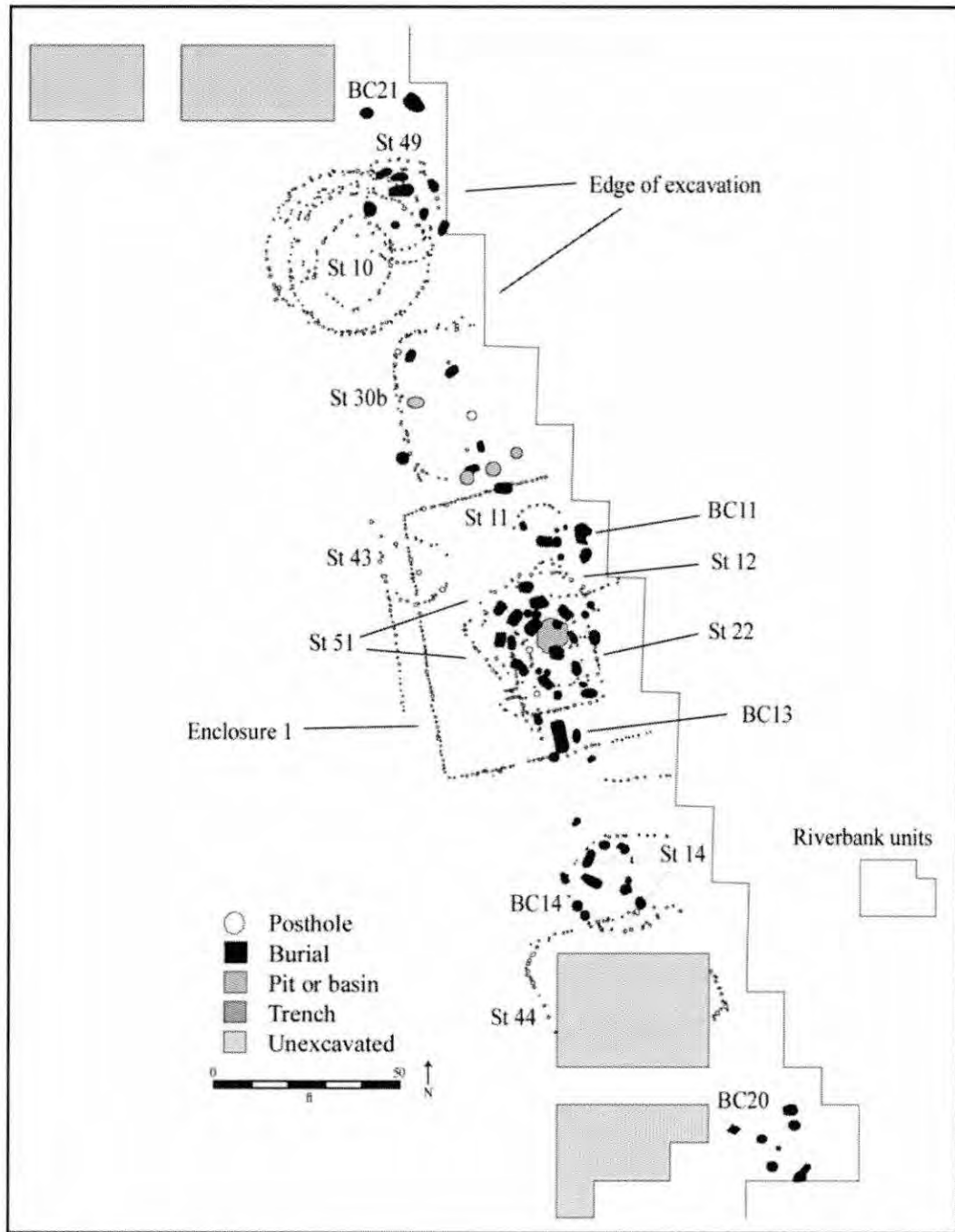


Figure 3.41. Identified architectural elements in the Eastern Area.

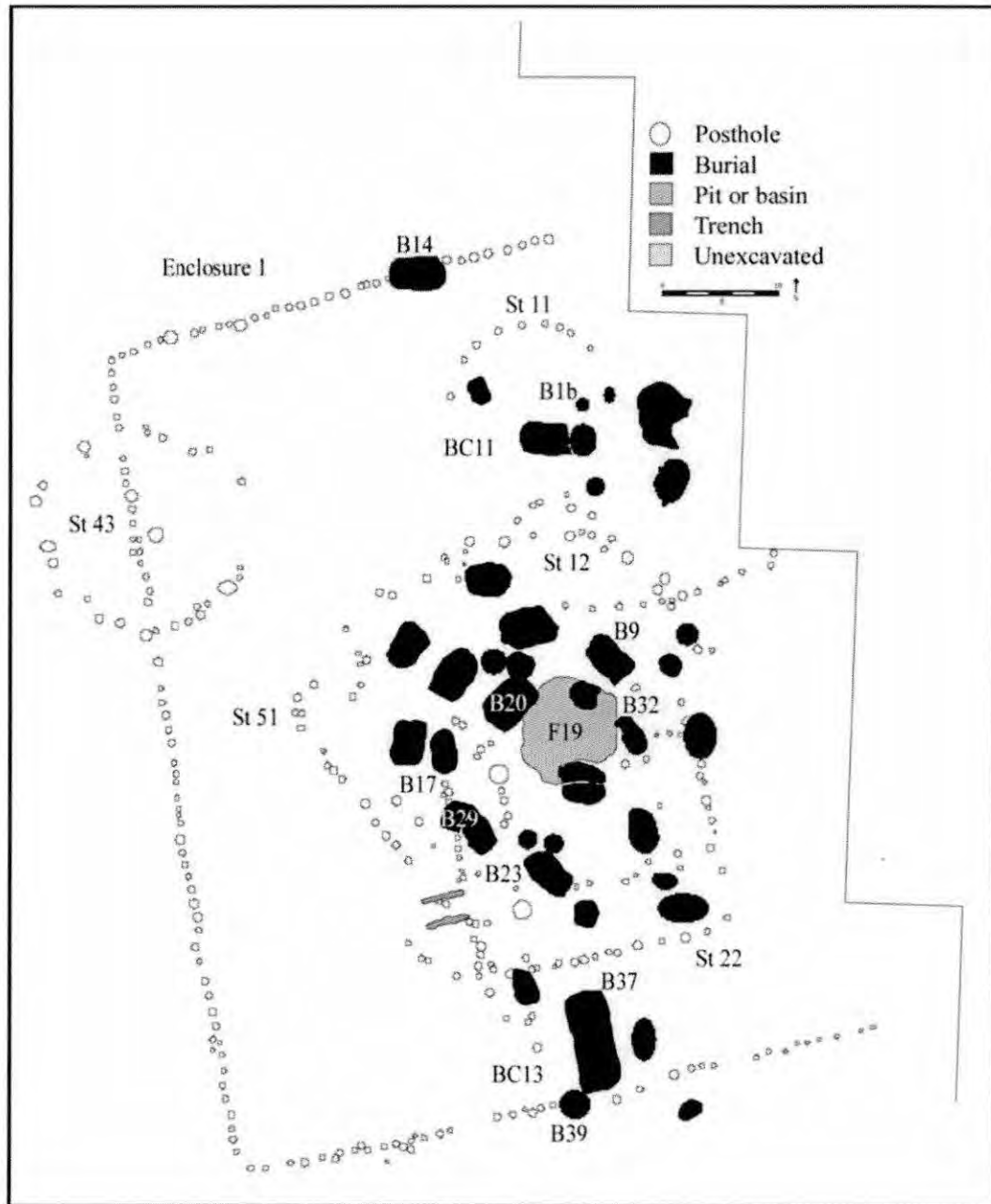


Figure 3.42. Identified architectural elements within Enclosure 1.

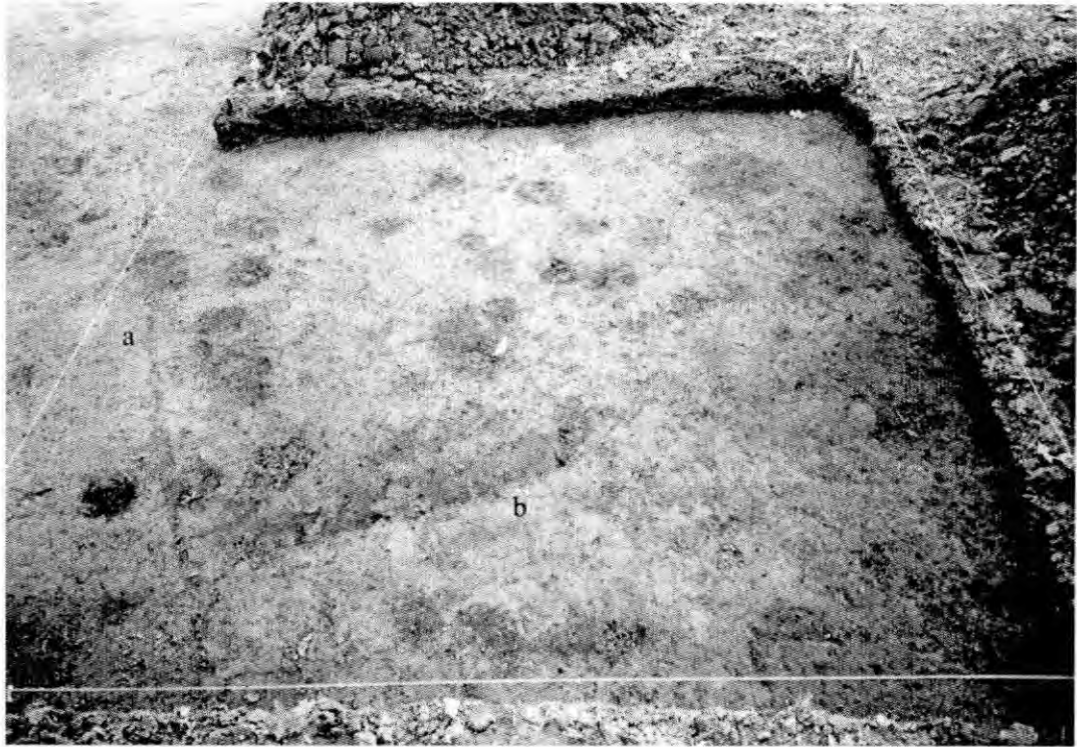


Figure 3.43. Soil discoloration in Sq. 50/Mg3 adjacent to Structure 22, facing south: (a) soil discoloration (b) entrance trench (RLA image 790).

within Structure 22 were actually related to it. Burials have not been attributed to Structure 22 for two reasons. First, many of the burials in the vicinity are clearly not associated with Structure 22 because they either superimpose or are superimposed by the structure. Second, Structure 22 is very similar to Structures 4b and 23a, neither of which was clearly associated with many, if any, burials. If these two structures can be used as models, then Structure 22 may not have contained associated burials.

Structure 51, a square construction measuring 31 ft on a side, contained at least five burials. The orientation of Structure 51 is about 45 degrees from that of Structure 22. Although the burials within Structures 12 and 51 overlap, I have attributed to Structure 51 five burials (Burials 9, 20, 23, 29, and 32/Mg3) that parallel its walls.

Structure 30b is a rectangular building measuring 30-x-40-ft with rounded corners located to the north of Structures 12 and 22 (Figure 3.44). Interior features include three large pits on the structure's south side (Features 11, 21, and 22/Mg3). Two burials (Burials 14 and 28/Mg3) were located just outside of the building and were presumably associated with it, although this relationship is unclear. Four other burials were widely spaced across the structure's interior. One of these was located in the northwest corner (Burial 83/Mg3), and another was located near the south wall (Burial 27/Mg3). The other two (Burials 11 and 26/Mg3) were located on opposite sides of a large hearth along the structure's north-south midline. These three features were aligned with and located between two deep postholes (1.1 and 1.8 ft) that probably represent interior roof supports. If this was the case, then Structure 30b exhibits a slightly different architectural style than other rectangular structures that had four interior roof supports arranged in a square. It could have been that Structure 30b had a gabled roof with a central ridge pole.

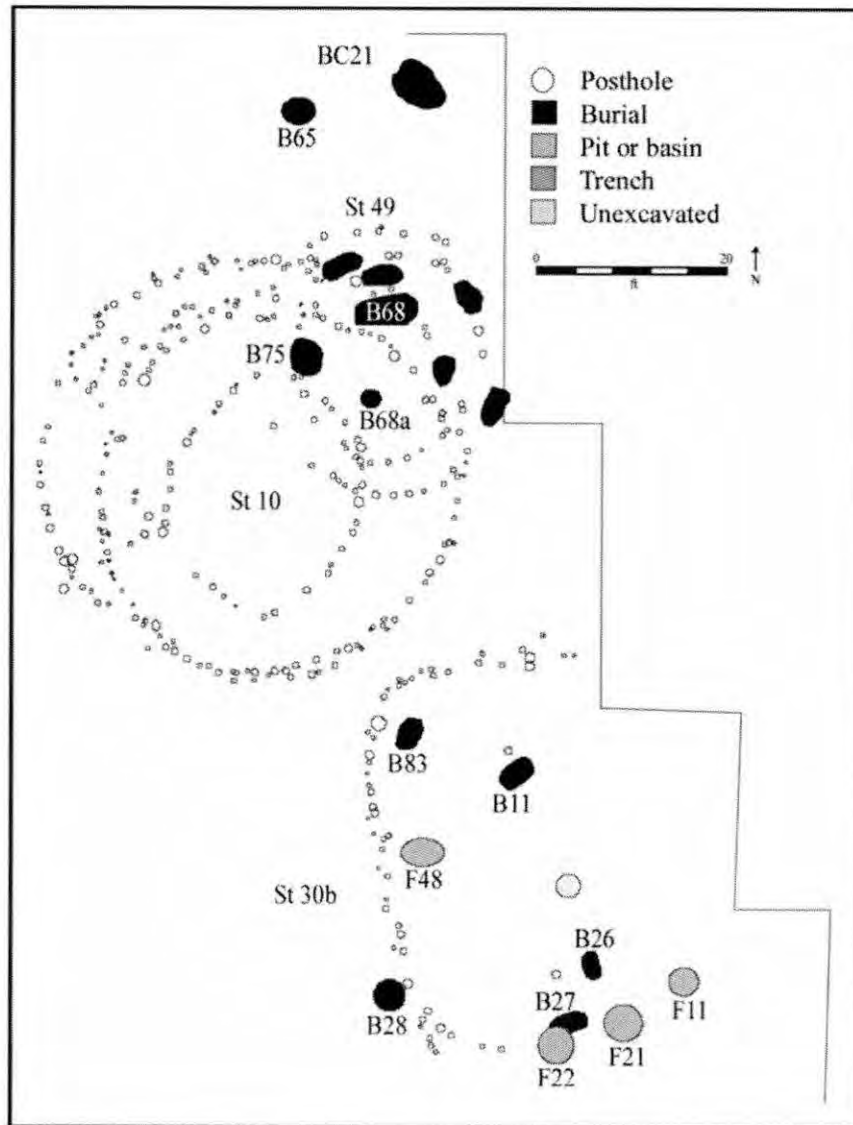


Figure 3.44. Identified architectural elements in the northern part of the Eastern Area.

Structure 49 is a circular building measuring 27 ft in diameter located to the northwest of Structure 30b. It contained a single extended burial (Burial 68/Mg3) in the middle of five flexed burials and an urn burial (Burial 68a/Mg3). Burials 68a and 75/Mg3 were located within Structure 10 and may have been associated with it, but I have attributed them to Structure 49 because there was some distance between these burials and the cluster of features located near the center of Structure 10 and because they complete the circle around the extended burial within Structure 49.

Structure 14 is an incompletely defined circular building 25 ft in diameter located to the south of Enclosure 1 (Figure 3.45). A spatially discrete cluster of burials occurs in and around this structure, but I have attributed these burials to two different entities, Structure 14 and Burial Cluster 14. The burials attributed to Structure 14 consist of seven individuals, six flexed and one extended (Burial 50/Mg3), arranged in a square or circle around an open space. The Burial Cluster 14 burials, which will be discussed later, were segregated because they appear to date to the Protohistoric Caraway phase. The Structure 14 burials appear to be Mississippian for several reasons. First, their arrangement in a circle or square around a relatively open space is similar to other clusters of Mississippian burials at Town Creek (e.g., Structures 2 and 5b). Second, objects associated with burials in the Structure 14 cluster include a copper axe and a shell gorget in the Pine Island style (Brain and Phillips 1996:28-30), both of which are artifact types that have been dated to the Mississippian period. Third, burials within the Protohistoric-period Burial Cluster 14 superimpose both the wall of and a burial within Structure 14, indicating that the two are distinct and that the former predates the latter.

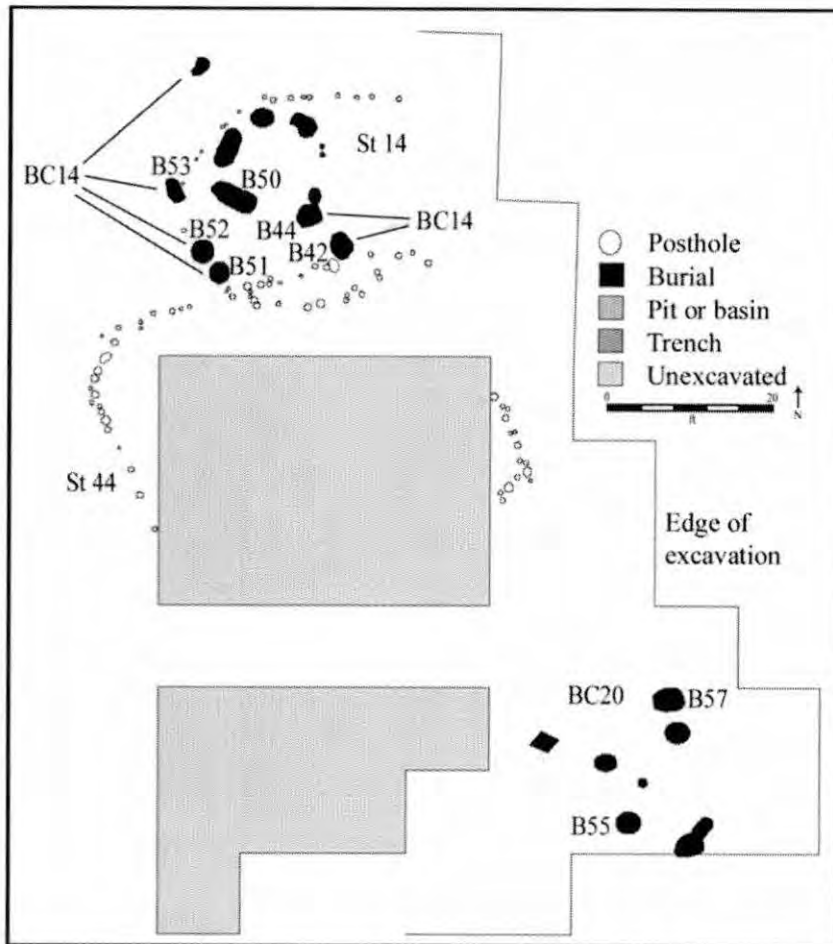


Figure 3.45. Identified architectural elements in the southern part of the Eastern Area.

Enclosure 1

Enclosure 1 is a large, rectangular construction measuring 71-x-56 ft located on the edge of the terrace adjacent to the Little River. Only three sides of Enclosure 1 were identified, but it is possible that the fourth was located in the adjacent unexcavated area or that it was obliterated by erosion next to the river. This construction is identified as an enclosure rather than a structure because of its large size, covering an area of at least 3900 ft². Three linear arrangements of postholes—one to the west and two to the south—may be associated with Enclosure 1 and these may represent rebuilding and expansion episodes of this enclosure, although complete patterns could not be identified.

Several burial clusters and at least three structures were located within the space defined by Enclosure 1. While the associations among these elements are unclear, the most obvious relationship is that Enclosure 1 and Structure 22 have parallel orientations. However, Enclosure 1 has connections with Structures 12 and 51 as well. Structure 12 is more or less centered within Enclosure 1. Structure 51 contains a burial (Burial 20/Mg3) that is centered exactly within Enclosure 1. The approximate middle of this grave is 45 ft from both the northwest and southwest corners of Enclosure 1. Although the east wall of Enclosure 1 was not recognized, one can assume that the southern line of postholes is more complete than the northern line because the former is longer. A diagonal drawn from the northwest to southeast corners passes through Burial 20/Mg3 as does a diagonal line drawn from the southwest corner to the projected location—based on the length of the more complete southern wall—of the northeast corner (Figure 3.46). Thus, the diagonals of the rectangle formed by Enclosure 1 intersect at the location of Burial 20/Mg3.

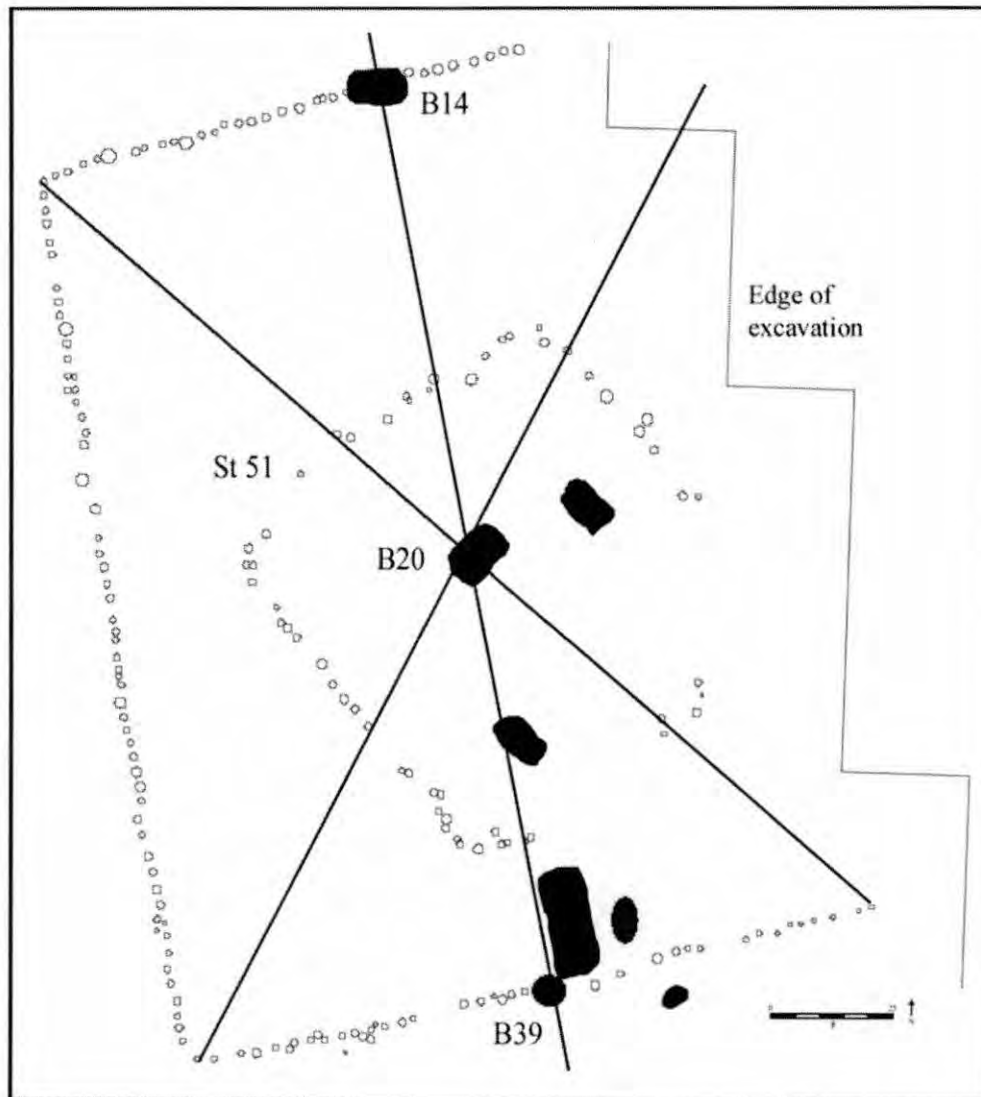


Figure 3.46. Axes within Enclosure 1 that intersect Burial 20/Mg3.

Enclosure 1 intrudes two burials (Burials 14 and 39/Mg3), which is unremarkable due to the density of features at Town Creek. There are several reasons why this may not be due to chance. First, the center of each burial is approximately the same distance, 27 and 29 ft, from the enclosure's eastern corners. Second, both individuals are oriented parallel to the line of postholes that superimposes them. Third, these two burials are aligned with the centrally located Burial 20/Mg3 (Figure 3.46). Fourth, the two burials superimposed by Enclosure 1 may have been aligned with features across the plaza in the mound locus. In the earlier section on Structures 4a and 4b, it was noted that an east-west line drawn through the hearths and extended burials in Structure 4a would not only bisect that structure, but it would also pass through another hearth and burial to the west as well as the northwestern interior support post within Structure 4b. If this line was extended to the east all the way across the plaza, it would pass through Burial 39/Mg3, the burial superimposed by the southern wall of Enclosure 1 (Figure 3.47). Similarly, a line from the entrance trenches of Structure 23a that was oriented the same as this structure if extended to the east across the plaza would pass through Burial 14/Mg3, the northern burial superimposed by Enclosure 1. The facts that the two burials superimposed by Enclosure 1 were the same distance from its western corners, are aligned with the centrally located burial, and may have been aligned with features of public buildings across the plaza suggest that they may have initially defined the space that was eventually delineated by Enclosure 1. This indicates that the layout of the Mississippian town at Town Creek was based on a unified plan that existed early in the community's history.

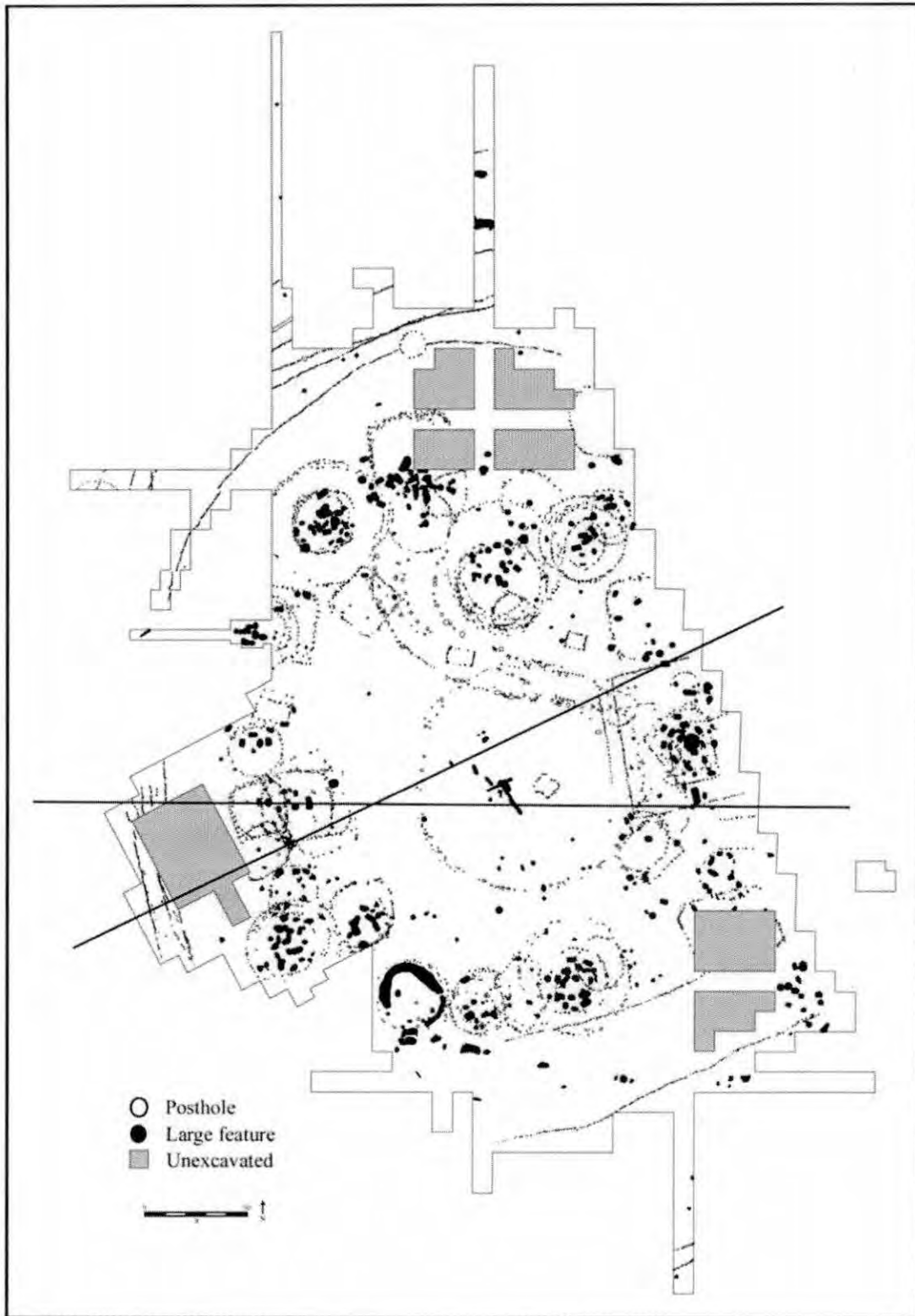


Figure 3.47. Alignments among submound features and burials superimposed by Enclosure 1.

Burial Clusters

Five clusters of burials that were not clearly associated with any structure were identified in the Eastern Area. Four of these clusters were defined because the burials that constitute them occurred in spatially discrete clusters. The other cluster was not spatially discrete, but was recognized as distinct based on artifact associations and burial pit morphology.

Two burial clusters were located in the northeast corner of the site. Burial Cluster 21 consisted of three burials containing five individuals. One of these was a bundle burial (Burial 65/Mg3) while the other burial types could not be determined due to their deteriorated condition. Two burial clusters were located within Enclosure 1. Burial Cluster 11 consisted of nine human burials and at least four other features located on the north side of this enclosure. The burial types that could be determined were flexed. This cluster is unique because it also contained a dog burial (Burial 1b/Mg3) with the remains having been placed inside a large ceramic jar or burial urn (Figure 3.48). Burial Cluster 13 was located on the south side of Enclosure 1. It consisted of four burials, two of which were flexed, surrounding an extended burial (Burial 37/Mg3). This extended burial was oriented the same as Enclosure 1 and was located immediately adjacent to its south wall. The posts from this wall are so close to the edge of the burial pit that it could be argued that they skirt the edge of the burial but do not superimpose it. That the posts did indeed cut into the burial pit is stated on the burial form and appears to be the case in several photographs (Figure 3.49), although this relationship is by no means clear.

Burial Cluster 14 overlaps with the cluster of burials that has been attributed to Structure 14. The five flexed burials that constitute Burial Cluster 14 were segregated for



Figure 3.48. Dog burial within Burial Cluster 11, 1940 (RLA image 555).

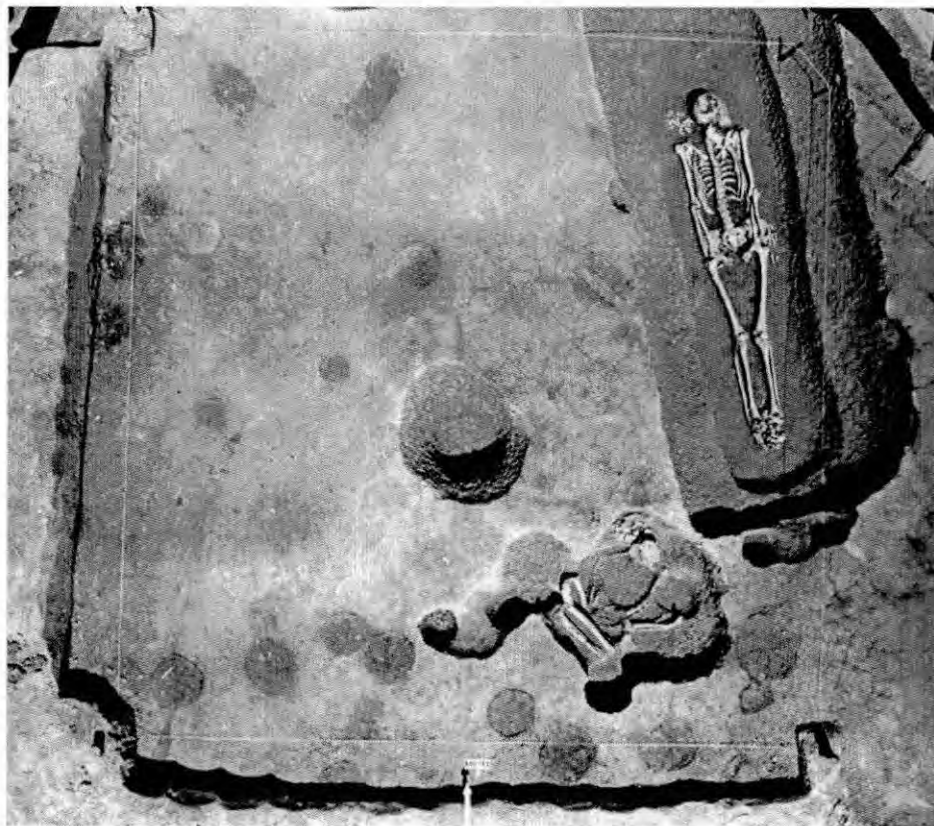


Figure 3.49. Postholes forming the southern wall of Enclosure 1 and their relationship with Burials 39 (left) and 37 (right)/Mg3, 1941 (RLA image 832).

several reasons. First, pits of four of these burials (Burials 44, 51, 52, and 53/Mg3) are of a type that is referred to as shaft-and-chamber which consists of a "shaft" excavated straight down from ground surface and a "chamber" in which the body was placed excavated to one side. Shaft-and-chamber burials are commonly found on sites in the Piedmont that date to the fifteenth century or later (Coe 1995:278-281; Ward 1987:86; Ward and Davis 1999:113-114). Second, two of the burials (Burials 51 and 52/Mg3) contained glass beads and a brass gorget, indicating that they postdate European contact. While the remaining burial (Burial 42/Mg3) in the cluster is not associated with any attribute that indicates it dates to the Protohistoric period, it is among the other clearly Protohistoric burials and set apart from the Mississippian burials. Third, several of the burials in Burial Cluster 14 superimpose the wall of and a burial within Structure 14, indicating that the burial cluster and the structure are temporally discrete.

Burial Cluster 20 was a group of eight excavated burials located in the southeast corner of the site. Seven of these were complete enough to determine that they were flexed. Several large, unexcavated features were located nearby, and it is likely that they represent other burials that can be attributed to this cluster. There are two indications that Burial Cluster 20 postdates the Mississippian-period occupation at Town Creek. First, one of the burials (Burial 55/Mg3) in Burial Cluster 20 was interred in a shaft-and-chamber pit and was associated with a glass bead. Second, another burial (Burial 57/Mg3) was associated with a pottery pipe made in a style found at sites in the Piedmont that date to the fifteenth century or later (Figure 3.50) (Ward and Davis 1993:413, 1999:Figure 7.5).

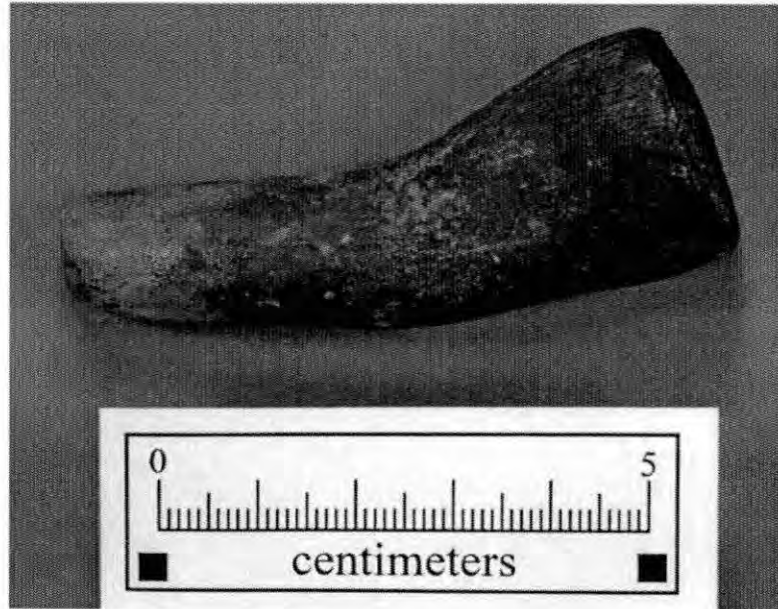


Figure 3.50. Clay pipe associated with Burial 57/Mg3 (Photograph by R. P. Stephen Davis, Jr.).

Sequence of Eastern Area Architecture

Structures 12, 22, and 51 are the only overlapping structures that were excavated in the Eastern Area (Figure 3.51). It appears for several reasons that Structure 12 was superimposed by Structure 22. At least one of the burials (Burial 17/Mg3) within Structure 12 was superimposed by a posthole associated with Structure 22. Also, it is very hard to define Structure 12 in the area where it overlaps with Structure 22, suggesting that the latter was built later and activities associated with it obliterated the posts associated with Structure 12. It appears that Structure 22 was in turn superimposed by Structure 51. Structure 22 was superimposed by burials (Burials 20 and 32/Mg3) associated with Structure 51, including Burial 32/Mg3 which superimposed Structure 22's northeast interior support post. Also, the north wall of Structure 22 was superimposed by a feature (Feature 19/Mg3) which was in turn superimposed by a burial (Burial 20/Mg3) within Structure 51. Enclosure 1 appears to postdate Burial Cluster 13 because its south wall superimposes at least one and possibly two of the burials in the former.

Chronological Information

Structure 12 contained two burials (Burial 18 and Feature 17/Mg3) with rosettes, indicating that it dates to the end of the early Town Creek phase or later. This structure was superimposed on its north side by a cluster of Leak-phase features (Feature 12/Mg3) and thus dates to the Leak phase or earlier. Thus, it seems that Structure 12 can be attributed to the end of the early Town Creek phase or the late Town Creek phase. Structure 22 postdates Structure 12. Additionally, Structure 22 is superimposed by a Leak-phase feature (Feature

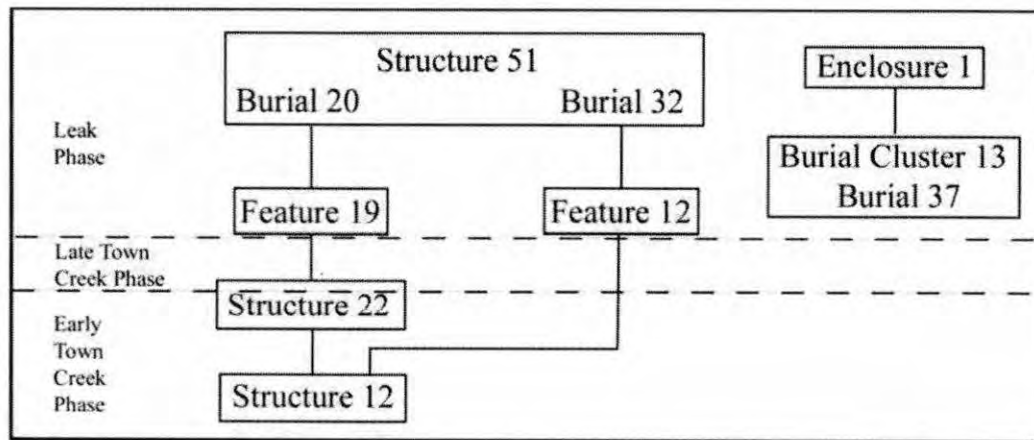


Figure 3.51. Schematic representation of the stratigraphic relationships in the Eastern Area.

19/Mg3) and burial (Burial 20/Mg3) which means that it must date to the Leak phase or earlier.

Structure 14 contained a Town Creek phase burial (Burial 53/Mg3), and it was superimposed by Protohistoric burials associated with Burial Cluster 14. Thus, Structure 14 dates to the Mississippian period, although which phase is unclear. The walls of Structure 30b had a Leak-phase posthole, indicating that the structure was removed or repaired during the Leak phase or later. The interior of Structure 30b contained a late Town Creek burial (Burial 83/Mg3) and a Leak-phase pit (Feature 11/Mg3). A Leak-phase burial (Burial 28/Mg3) was located adjacent to but just outside of the structure's west wall, but its association with Structure 30b is not clear. Structure 30b's east wall is superimposed by a very large Leak-phase basin (Feature 13/Mg3), suggesting that the structure could date to the Leak phase or earlier. Based on the interior features and the superposition of the east wall, I think that Structure 30b can be attributed to the Leak phase.

Enclosure 1 may superimpose the Leak-phase Burial 37/Mg3. If so, then Enclosure 1 dates to the later end of Town Creek's Mississippian occupation, to the Leak phase or later. Additionally, the central location within Enclosure 1 of the Leak-phase Burial 20/Mg3 suggests that the two are related. If so, this also indicates that Enclosure 1 dates to the Leak phase or later.

Several of the burial clusters in the Eastern Area included temporally diagnostic artifacts. The bundle burial (Burial 65/Mg3) within Burial Cluster 21 dates to the Leak phase or later. Burial Cluster 11 contained late Town Creek (Burial 8/Mg3) and Leak-phase features (Features 8 and 12/Mg3), suggesting that the cluster as a whole dates to the Leak phase or later. Burial Cluster 14 contained glass beads, a brass gorget, and shaft-and-

chamber burial pits that indicate it dates to the Protohistoric Caraway phase. The brass gorget is circular with a small hole at its center, a form suggesting that it postdates A.D. 1630 (Figure 3.52) (Waselkov 1989:123). Burial Cluster 20, a shaft-and-chamber burial with a glass bead, also appears to date to the Caraway phase.

Northwestern Area

The Northwestern Area contained at least three and possibly four excavated structures, and a burial cluster (Figures 3.53 and 3.54). Two of the structures are rectangular and another is circular. An additional rectangular structure was located in this area, but it overlaps significantly with another structure, so defining it was difficult.

Structure 7 is a complex arrangement of at least two concentric circular patterns of postholes with a dense cluster of burials at its center. This is by far the largest cluster at the site with 40 burials containing 50 individuals. The inner posthole pattern in Structure 7 is 30 ft in diameter and is centered within the outer posthole pattern, which is 62 ft in diameter. All of the burials were located within the inner pattern. Most of the burials within Structure 7 were in a flexed position. Seven urn burials (Burials 97, 98, 102a, 103, 113, 121, and 124/Mg3) that contained the remains of children were also present. The center of the burial cluster, which was also the center of the outermost circular pattern of posts, consisted of four burials arranged in a square surrounding an open space. One of these was an extended burial (Burial 117/Mg3). The burials of three children, two of which were in urns (Burials 113 and 121/Mg3), were located within the open space at the center of the structure. Another burial of a child (Burial 122/Mg3) was located in the open, central area of the burial cluster. An extended burial was situated to the north of the cluster (Burial 90/Mg3).

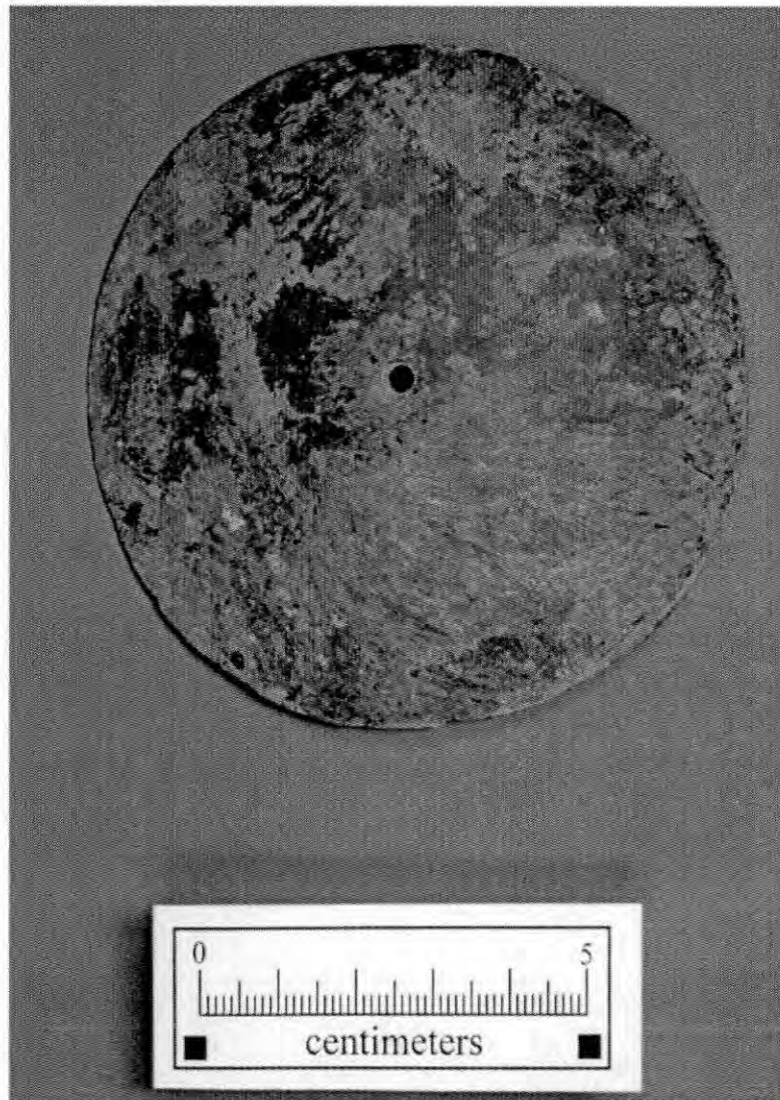


Figure 3.52. Brass gorget associated with Burial 52/Mg3 (Photograph by R. P. Stephen Davis, Jr.).

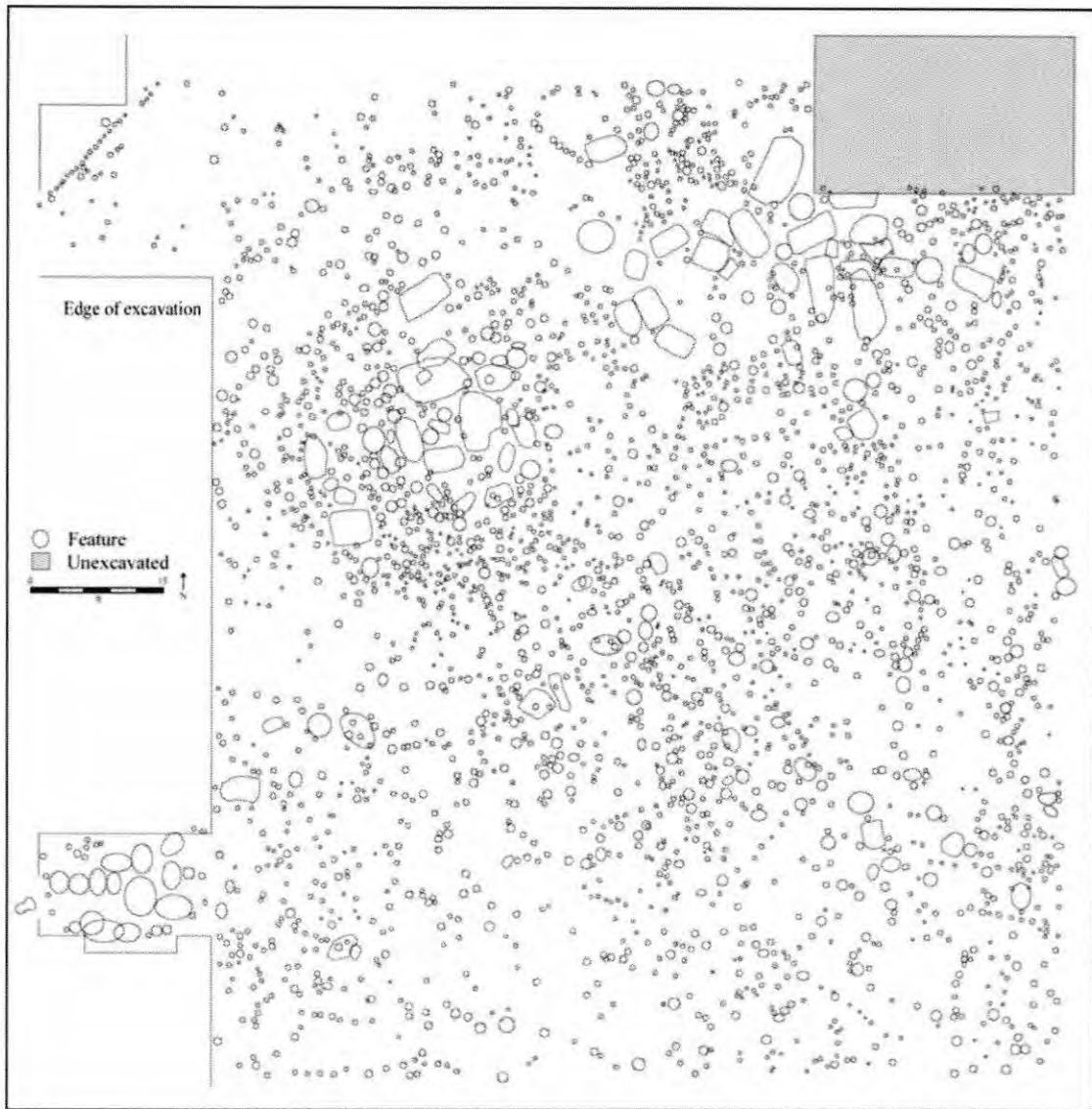


Figure 3.53. All features in the Northwestern Area.

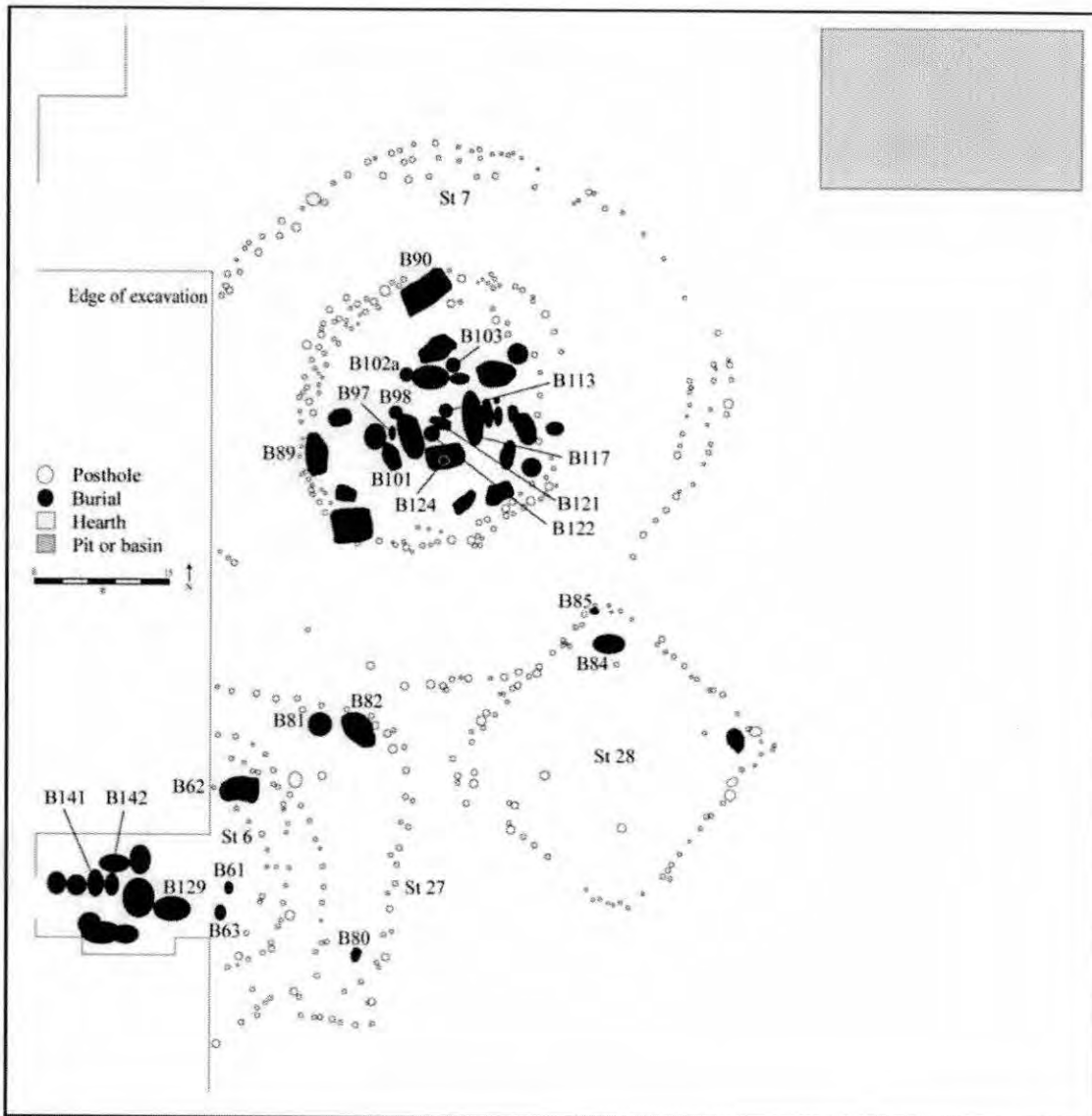


Figure 3.54. Identified architectural elements in the Northwestern Area.

Structure 28 is a square building (26 ft on a side) with its corners oriented to the cardinal directions. Its interior contained a square arrangement of four deep postholes (1.3 to 1.6 ft) that probably represent interior support posts. Three burials were located inside Structure 28, two in its northern corner (Burials 84 and 85/Mg3) and one in its eastern corner (Burial 76/Mg3).

Structure 27 is a rectangular structure with rounded corners. It measured 35 ft along its north-south axis, but its eastern side was not fully exposed by excavators. A large, deep posthole (1.2 ft) may represent the northeastern corner of a rectangular arrangement of interior support posts, but the corresponding post on the southeastern corner could not be clearly identified. Structure 27 contained six burials. These include child burials near the northeast (Burials 81 and 82/Mg3) and southeastern (Burial 80/Mg3) corners of the structure and a rectangular pit (Burial 62/Mg3) that contained the disarticulated, scattered remains of four individuals.

Structure 6 is a poorly defined circular structure that overlaps Structure 27. Structure 6 was 30 ft in diameter. The eastern half of Structure 6 was excavated as was a cluster of 13 burials at its center containing 18 individuals. The western portion of Structure 6 was not excavated. Burials 61 and 63/Mg3 were located close to the Structure 6 burials, but I have attributed them to Structure 27 because they were located some distance away, unlike all of the other burials within Structure 6. Structure 6 contained mostly flexed burials with the one exception being an extended burial located near its center (Burial 141/Mg3).

Chronological Information

Except for the fact that Structures 7 and 28 overlap, there were no stratigraphic relationships in the Northwestern Area. Structure 7 contained several Town Creek and pre-Leak-phase burials and features. A late Town Creek posthole inside the structure indicates that it was repaired or replaced during this phase or later. Two Leak-phase burials, one based on a rim treatment (Burial 89/Mg3) and the other on a surface treatment (Burial 101/Mg3), indicate that burials were added to this cluster during this phase or later. A posthole in the southern part of Structure 7 contained a Leak-phase sherd, but it is possible that this was associated with Structure 28 which contains two other Leak-phase posts in its interior. Thus, it seems likely that posts associated with Structure 28 were removed during the Leak phase or later. Structure 27 contained a Leak-phase posthole in its east wall, which indicates that it too was repaired or replaced during this phase or later. Structure 6 contained burials with Teal (Burial 142/Mg3) and general Town Creek (Burial 129/Mg3) phase diagnostic ceramics, indicating that it dates to the latter phase or later.

Southwestern Area

A structure and a burial cluster were excavated in the southwestern part of the site (Figures 3.55 and 3.56). Structure 18 is an enigmatic construction that consists of a wide (2 to 7 ft), shallow (approximately 0.5 ft) circular feature (Feature 58/Mg3)—divided into at least two semicircular segments—just inside a circular arrangement of posts that is 36 ft in diameter (Figures 3.57 and 3.58). These appear to represent a ditch feature along the interior wall of a circular structure. The fact that Feature 58 appears to be open to the southwest could indicate that this was where the structure's entrance was located. The presence of a

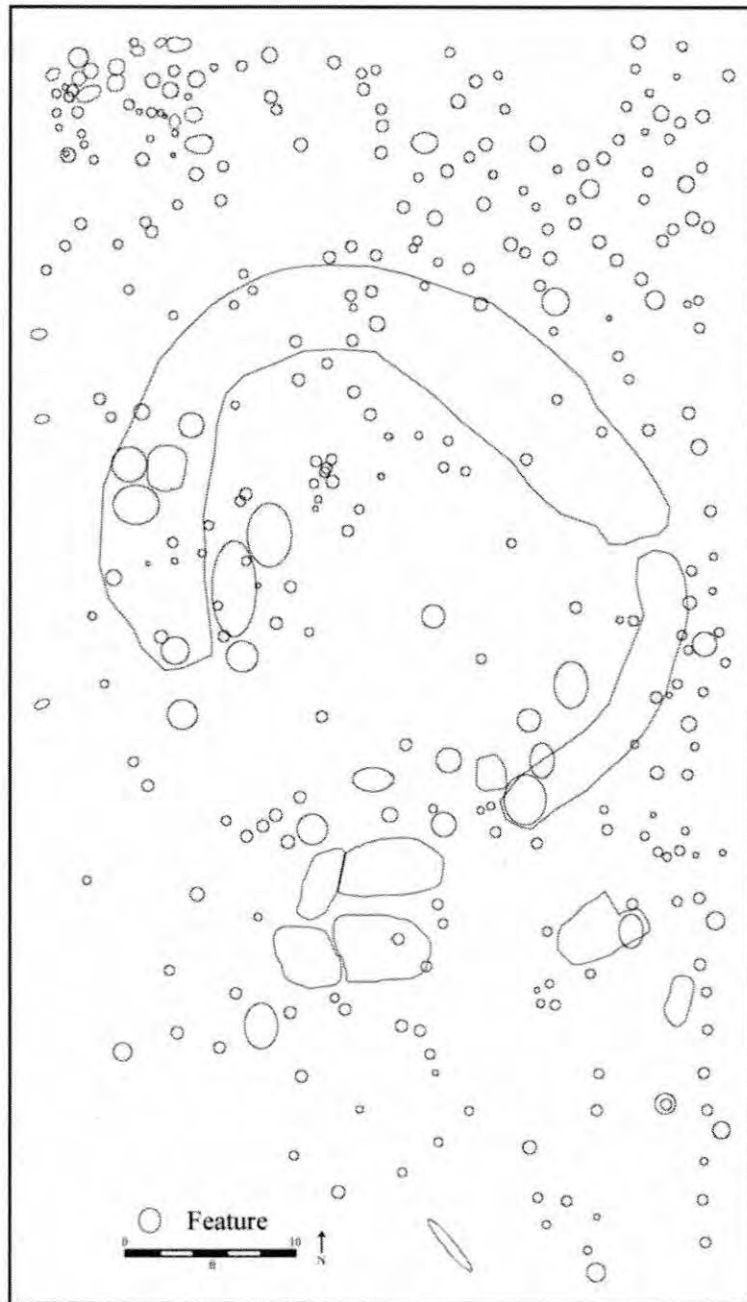


Figure 3.55. All features in the Southwestern Area.

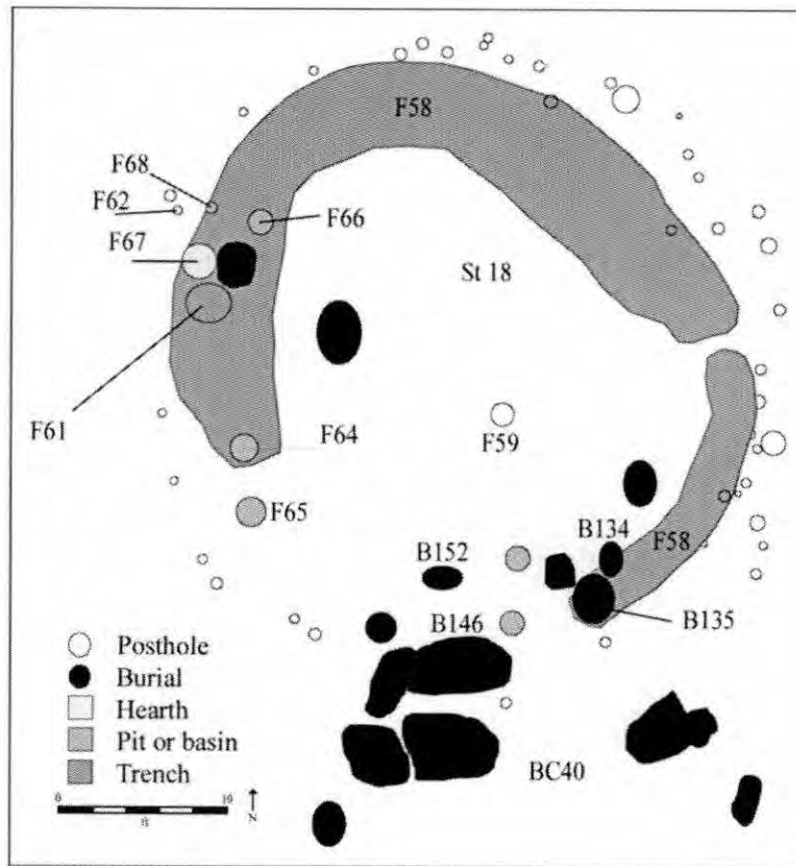


Figure 3.56. Identified architectural elements in the Southwestern Area.

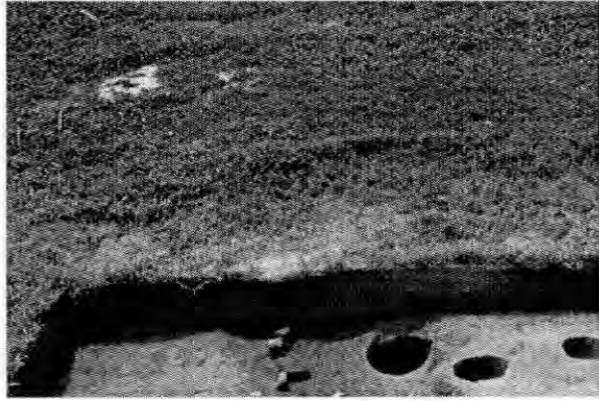




Figure 3.57. Excavated portion of Feature 58/Mg3 (RLA image x2241).



Figure 3.58. Cross-section of Feature 58/Mg3 (RLA image x2339).

charred exterior post (Features 61/Mg3), a charcoal-filled feature (Features 62/Mg3), and a charred interior post (Feature 59/Mg3) suggest that this structure burned. Additionally, some of the exterior posts in the photographs are very dark and possibly filled with charcoal (Figure 3.59).

A number of features were clustered in and around Feature 58/Mg3. Some of these were superimposed by Feature 58. These include at least two burials (Burials 134 and 135/Mg3), a hearth (Feature 67/Mg3), a pit (Feature 66/Mg3), and a basin (Feature 68/Mg3). Six other burials, as well as two large unexcavated features that were probably burials, were located either within or adjacent to Feature 58, but their stratigraphic relationships are not clear. One burial (Burial 152/Mg3) was located in the open area on Structure 18's southwest side. All of the burials located within Structure 18, regardless of stratigraphic position, were flexed. A number of other pits (Features 64 and 65/Mg3) and postholes were located within Feature 58 but were visible from its top, indicating that they superimposed it. In short, the very large Feature 58 superimposed and was superimposed by a number of smaller features.

Burial Cluster 40 is a concentration of several flexed burials and an extended burial (Burial 146/Mg3) located just south of and overlapping slightly with Structure 18. Burials 146 and 147/Mg3 were both associated with complicated stamped patterns that date to the Town Creek phase. Burial Cluster 40 was presumably within a structure that cannot be clearly defined at this time. There are circular and linear arrangements of postholes in this area, but their relationships to Burial Cluster 40 are unclear.

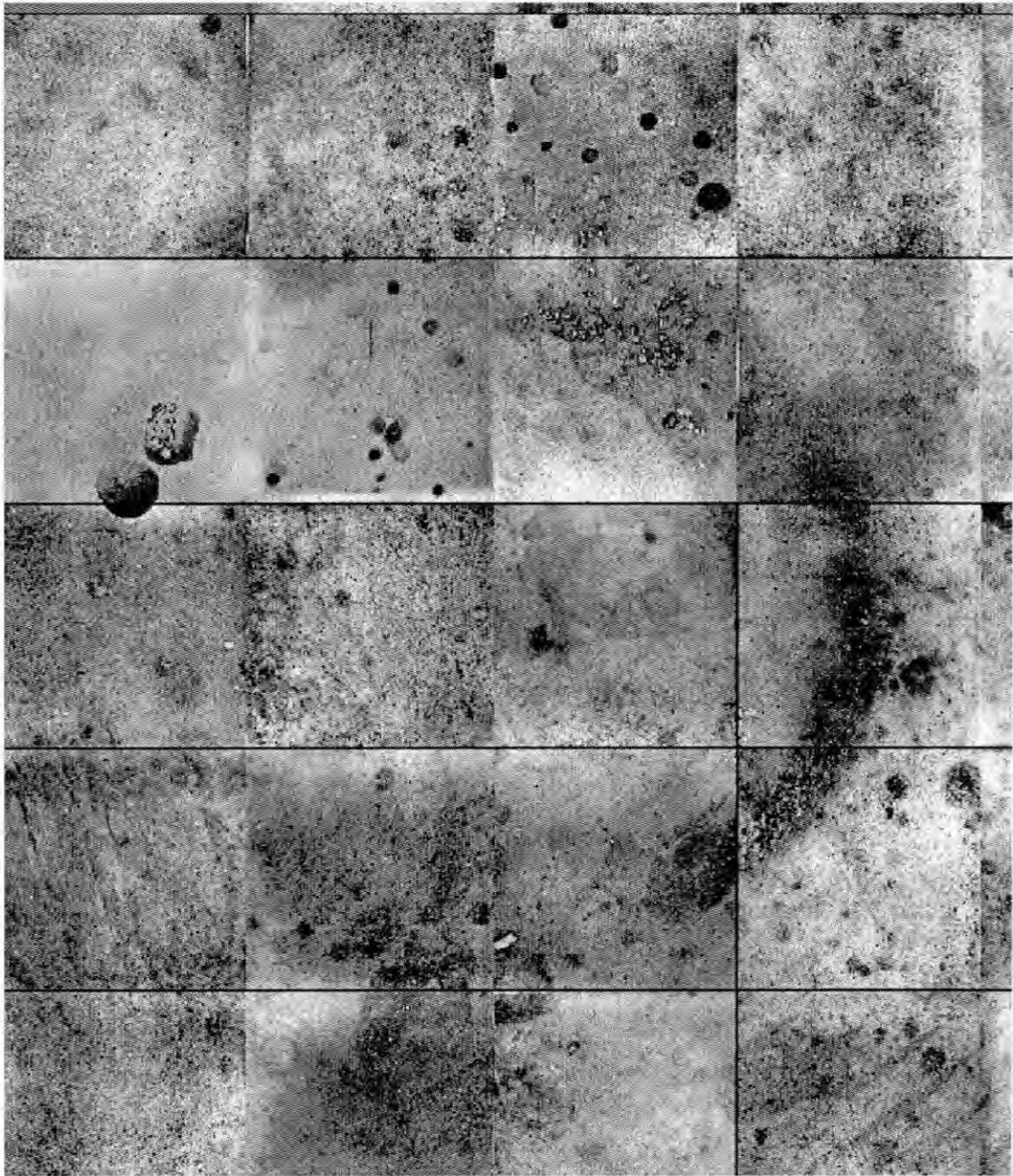


Figure 3.59. Section of the digital photographic mosaic showing Structure 18.

Chronological Information

All that can be said about Burial Cluster 40 is that two of its burials (Burials 146 and 147/Mg3) date to the Town Creek phase or later. Several relationships indicate that Structure 18 dates to the early end of the Town Creek occupation. First, Feature 58/Mg3 covers several features that can be dated to the Woodland period. These include a cluster of features on its northwest side (Features 66, 67, 68, and 69/Mg3) with assemblages dominated by pottery that was tempered with large pieces of quartz, a trait that is associated with Woodland-period ceramics in the Piedmont (Coe 1995:154; Ward and Davis 1999:83). Another superimposed Woodland feature is Burial 135/Mg3 which was associated with a bent-tube, winged style stone pipe that dates to the Late Woodland or possibly Early Mississippian period (Figure 3.60) (Irwin et al. 1999:77). While Feature 58/Mg3 truncates these Woodland features and certainly postdates them, the fact that this large feature overlaps with smaller Woodland features in several places indicates a relationship among them and that Feature 58/Mg3 can be attributed to the Woodland period as well. Consistent with this is the fact that the fill of Feature 58/Mg3 is dominated by quartz-tempered pottery (Table 3.3). Another indication that Feature 58/Mg3 dates to the Woodland period is that one of its exterior posts contains an early Town Creek phase surface treatment, indicating that it was removed during this phase or later. Also, Structure 18 is partially superimposed by Burial Cluster 40 which dates to the Mississippi period.

Central Area

The central part of the site consists of an area with a low density of features which is consistent with it having been a plaza (Figures 3.61 and 3.62). Structure 41 is a small,

Chronological Information

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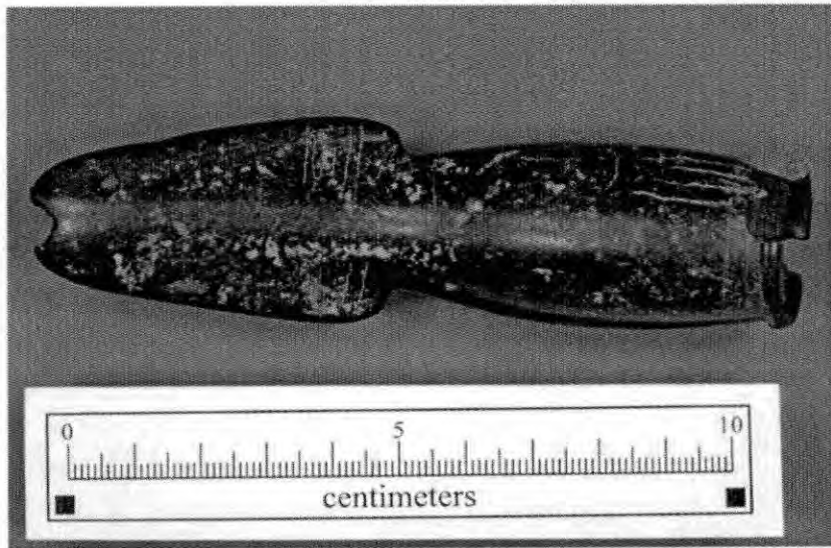


Figure 3.60. Stone pipe associated with Burial 135/Mg3.

Table 3.3. Pottery from Feature 58/Mg3.

Pottery Class	Count
Non-Pee Dee	
Small sherds	631
Check stamped	3
Cordmarked	9
Fabric marked	2
Plain	15
Simple stamped	5
Folded rims	1
Plain rims	15
Total	681
Pee Dee	
Small decorated	53
Small plain	31
Small unidentified	46
Check stamped	10
Curvilinear. comp. st.	3
Rectilinear. comp. st.	2
Cordmarked	71
Plain	23
Simple stamped	11
Stamped	3
Plain rims	14
Total	267

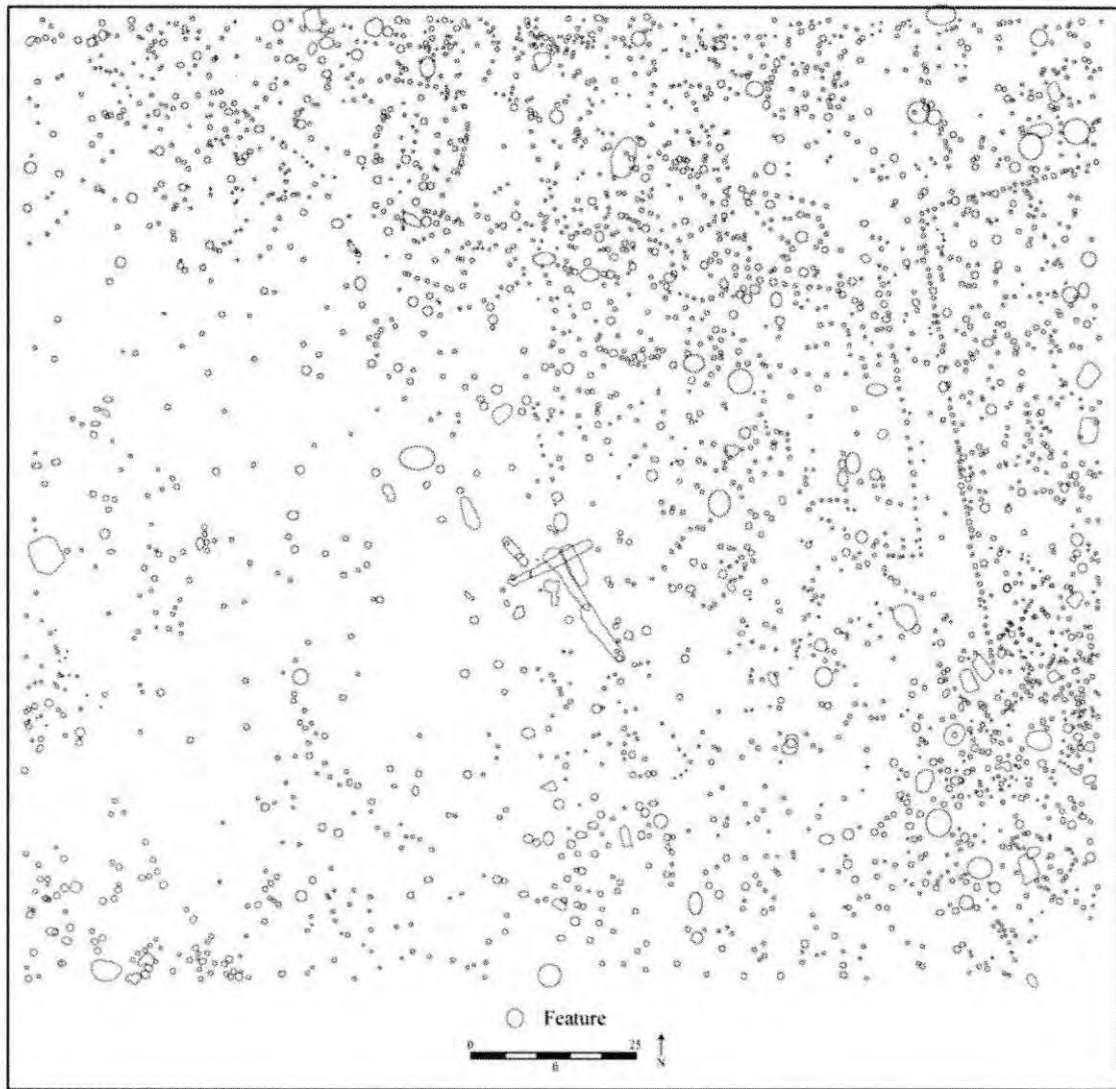


Figure 3.61. All features in the Central Area.

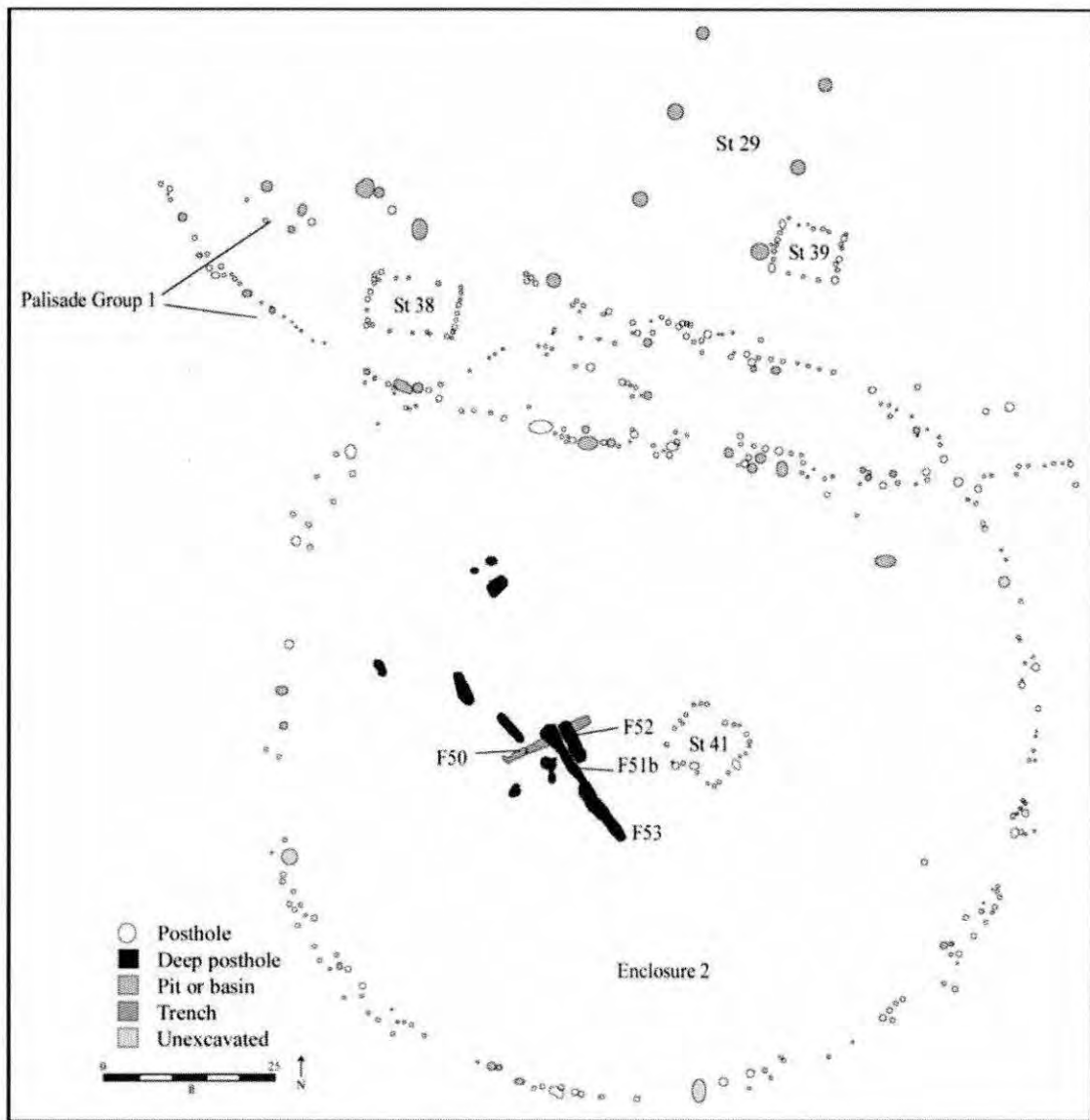


Figure 3.62. Identified architectural elements in the Central Area.

rectangular structure located in the middle of the plaza. It stands out as one of the smallest structures at the site. Eleven large, deep postholes were located in the middle of the plaza just to the west of Structure 41. Each one of these postholes had a number of rocks in its fill. These postholes range in depth from 1.6 to 4.5 ft. The largest of these are three superimposed postholes (Features 51b, 52, and 53/Mg3) between 3.6 and 4.5 ft deep that have extraction-insertion ramps extending up at a 45 degree angle from the posthole (Figure 3.63). The biggest of these (Feature 51b/Mg3), excavated and documented by Stanley South (1957a), had a 0.7 ft deep trench (Feature 50/Mg3) perpendicular to it, the purpose of which is thought to have been to use a perpendicular log in the trench at ground level to secure and stabilize the upright pole (Coe 1995:Figure 5.8). A 2.9-ft deep posthole (-50L90-Pit 3/Mg3) with an adjacent ramp was located nearby as was a 3-ft deep posthole (-40L90-Pit 1 and 2/Mg3) that may have had an adjacent ramp. This means that near the center of the plaza there were at least four and possibly five postholes that were around 3 ft or deeper with an adjoining extraction-insertion ramp.

Enclosure 2 is a large (112 ft in diameter), circular arrangement of posts that occupies most of the plaza. Most of this Enclosure was not excavated, but the portions that were consisted of a few deep postholes (> 1 ft) and a number of shallower ones. The center of Enclosure 2 is located between Structure 41 and the cluster of deep postholes in the middle of the plaza. The relationships among Enclosure 1, Structure 41, and the deep postholes suggests that they may have been related and together formed a large-scale architectural unit. The eastern half of Enclosure 2 contained a number of small postholes—several of which appear to be aligned, although Structure 49 is the only clear building in the area. It may have been that while the western half of the circular enclosure was used for the erection of large

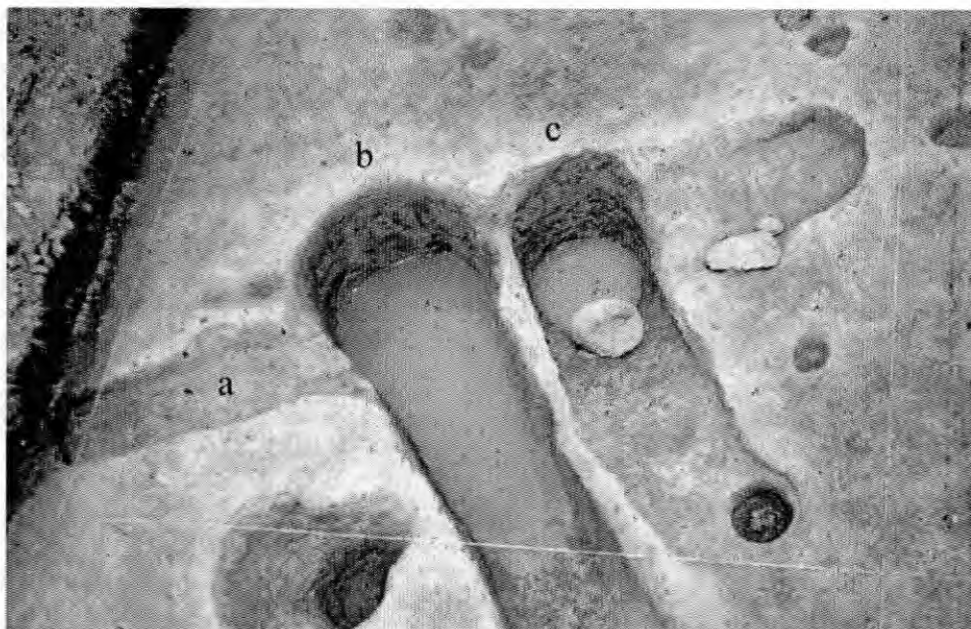


Figure 3.63. Deep postholes near the center of the plaza, 1957: (a) Feature 50 (b) Feature 51b (c) Feature 52/Mg3 (RLA image 1755).

posts, the eastern half was used for the repetitive construction of small, rectilinear buildings similar to Structure 49.

Instances of large, centrally located posts in native Southeastern towns are well documented both ethnohistorically and archaeologically (Anderson 1994:221; Hally and Kelly 1998:50; Knight 1985:106). Such poles may have acted as *axes mundi*—ritually defined, tangible connections between this world and other spiritual worlds (Knight 1985:107). It is plausible that the large posts in the plaza at Town Creek served similar functions. The large postholes with insertion ramps in the plaza at Town Creek are similar to large pits at several other Mississippian sites, some of which were located on mound summits (Knight 1985:106; Pauketat 1993:31 and Figure 3.6; Ryba 1997:10-16). It is likely—based on the size of the pit and post as well as the central location of the work—that the erection and removal of these posts were prominent events within the community at Town Creek. David Hally (personal communication 2004) has discussed the possibility that the erection of these large posts was somehow related to mound-construction episodes, noting that at Town Creek there are at least four mound construction episodes and four or five very large posts with insertion ramps.

Several circular monuments similar to Enclosure 2 have been documented at Cahokia and related sites. Enclosure 2 is at least superficially similar to the Cahokian circular monuments, which are referred to variously as woodhenges or post-circle monuments (Pauketat and Emerson 1997:14 and Figure 1.6). The Cahokia woodhenges consist of very large, regularly spaced posts of red cedar (Smith 1992:15). These monuments may have served as celestial observatories, calendrical devices, or surveying instruments (Demel and Hall 1998:216-218; Smith 1992). It is likely that one of the most critical functions that these

monuments served for the residents of the community was as world center shrines that acted “to gather and direct powers of nature and to serve as a location for communication with the forces of nature” (Hall 1996:125). If the circular enclosure at Town Creek was celestially aligned, it may have served to link the built environment of the town to the motions of the cosmos, thereby infusing the former with the power and sanctity of the latter (Brown 1997:479).

Palisade Group 1 is a set of concentric palisade lines that runs across the Central Area and encloses the northern part of the site. Palisade Group 1 consists of up to four palisade lines, with the outermost being the best defined. These palisade lines largely run through intensively occupied parts of the site, so they are not clearly defined in their entirety.

A rectangular arrangement of pits (50L60-Pit 25, 40L60-Pit 10, 30L70-Pit 1, 40L40-Pit 35, 30L50-Pit 23, 20L50-Pit 20/Mg3) measuring approximately 20-x-30-ft has been tentatively designated as Structure 29. Although these pits are evenly spaced and approximately the same diameter, it is not clear what they represent because other features such as walls, hearths, and burials are absent.

Chronological Information

Enclosure 2 contained two late Town Creek and two Leak-phase postholes, indicating that these posts were removed during these phases or later. A number of features scattered across the north side of the interior of Enclosure 2 date to the late Town Creek or Leak phases or later, although it is not clear how they relate to Enclosure 2. Structure 41 did not contain any diagnostic artifacts. Enclosure 2 overlaps with Enclosure 1, indicating that the

two could not have been used at the same time. Given that there are several indications Enclosure 1 dates to the Leak phase, then Enclosure 2 must date to this phase or earlier.

Palisade Group 1 does not seem to fit within Town Creek's site structure. It overlaps with several architectural elements and it runs across the northern edge of the plaza. This suggests that it either predates or postdates the bulk of the occupation at Town Creek. Palisade Group 1 postholes contain diagnostic artifacts from every late prehistoric phase represented at the site. This is probably not because Palisade Group 1 dates to late in the sequence, but instead to the fact that it overlaps with so many structures that it was often impossible to determine exactly to which architectural element an individual posthole should be attributed. The fact that Palisade Group 1 appears to be superimposed at its southeastern end by Leak-phase features (Features 8 and 12/Mg3) indicates that it dates to the earlier end of the Town Creek occupation. Structure 29 also does not fit within the site's overall structure, indicating that it could either predate or postdate the bulk of the Mississippian occupation. Although no diagnostic artifacts were associated with the six pits that constitute Structure 29, the absence of decorated rims could indicate that these features date to early in Town Creek's occupation.

STRUCTURE TYPES

An important part of defining community patterns is to focus on similarities among architectural elements. While a great deal of variation is represented in the architecture at Town Creek, a number of structures and even burial clusters share attributes that indicate they represent specific types of structures. In this section, structure types are defined based on attributes of excavated structures. Examples of these types are then identified among the

unexcavated and partially excavated structures. Structure types are based on the attributes of size and shape as well as the distribution and density of internal features.

Circular and Rectilinear Structures

The most basic architectural distinction that can be made at Town Creek is between circular (Table 3.4) and rectilinear (i.e., rectangular and square) (Table 3.5) structures. There is a general distinction between circular and rectilinear structures regarding the distribution and density of internal burials. Circular structures often contain dense, central clusters of burials while rectangular ones have either fewer, scattered burials or no burials at all. A scatterplot of the number of burials in a structure plotted against the structure's area (Figure 3.64) shows circular and rectilinear structures largely as two distinct clusters, albeit with some overlap. The one exception is Structure 43, a small circular structure (17 ft in diameter) with no burials. The distinction between circular and rectilinear structures is clearly expressed in a histogram of burial density¹² (Figure 3.65). There is a clear break in the distribution of structures by burial density. With one exception, all rectilinear structures are included in the first group with burial densities less than 1 burial per 100 ft². The one exception is Structure 5b, a small rectangular structure that may be associated with two burials. The distinction between circular and rectilinear structures is also expressed in a boxplot (Figure 3.66) that shows significant differences in burial density between structures of the two shapes. Based on these clear differences in shape and burial density, which may be due to either function or duration of use, it is useful to discuss circular and rectilinear structures separately. Even within these broad categories, enough patterned variation exists so that different types of circular and rectilinear structures can be identified.

Table 3.4. Attributes of circular structures.

Structure	North-South (ft)	East-West (ft)	Diameter	Area (sq ft)	Area Excavated ^a	Perimeter (ft)	Perimeter Excavated ^b	Burials	Individuals	Postholes ^c	Burial Density (ct/sq ft)	Post. Density (ct/per.)	Excavation Status
Enclosed circular (exterior posthole pattern)													
1		47.0		1733.5	1733.5		94.9	24	30	90	0.014	0.9	excavated
7	63.0	61.0	62.0	3019.9	3019.9		161.1	40	50	134	0.053	1.2	excavated
10	37.3	36.9	37.1	1082.2	1082.2	118.6	118.6			152		1.3	unexcavated
10	42.5	43.6	43.1	1456.5	1456.5	136.3	136.3			137		1.0	unexcavated
15b	58.3	55.7	57.0	2550.0	2550.0	178.6	178.6			59		0.3	unexcavated
Enclosed circular (interior posthole pattern)													
1	31.0	28.9	29.9	705.1	705.1	99.6	99.6	24	30	46	0.034	0.5	excavated
7	30.4	31.5	31.0	753.0	753.0	102.7	102.7	40	50	124	0.053	0.9	excavated
10	24.5	20.0	22.2	392.7	392.7	70.4	70.4			57		0.8	unexcavated
15b	32.2	33.6	32.9	851.6	851.6	105.9	105.9			70		0.7	unexcavated
Small circular													
S2	30.0	30.0	30.0	706.9	706.9	104.9	104.9	10	11	92	0.014	0.9	excavated
S5a	25.8	25.8	25.8	524.4	524.4	85.5	85.5	8	8	73	0.013	0.7	excavated
S6	29.8		29.8	697.9	373.8	97.2	26.7	13	18	17	0.013	0.8	excavated
S8	31.7	32.6	32.2	813.2	813.2	99.6	99.6			92		0.9	unexcavated
S12	30.5	30.8	30.7	738.3	738.3	98.5	95.9	16	16	57	0.022	0.6	excavated
S14	25.2	25.1	25.1	495.6	495.6	78.1	78.1	7	7	42	0.014	0.5	excavated
S15a	26.8	23.7	25.2	501.7	501.7	80.0	80.0			58		0.7	unexcavated
S17	32.0	30.0	31.0	755.6	755.6	97.6	97.6			75		0.8	unexcavated
S21b	29.5	29.9	29.7	694.0	694.0	98.7	98.7	3	3	90	0.004	0.9	unexcavated
S31	28.6	25.4	27.0	574.0	574.0	88.9	88.9			69		0.8	unexcavated
S32b		34.6		942.4	942.4	120.8	99.5			90		0.9	unexcavated
S49	26.9			569.2	569.2	85.2	62.4	9	9	52	0.004	1.3	excavated
Unassigned													
S9b (ext)	58.9	57.3	58.1	2648.5	2648.5	189.5	185.0			113		0.6	unexcavated
S9b (int)	46.1	44.7	45.4	1618.1	1618.1	143.4	143.3			145		1.0	unexcavated
S18	36.9	35.1	36.0	1019.0	1019.0	115.6	115.6	7	7	40	0.007	0.3	excavated
S34	38.2			1146.7	687.5		48.1			40		0.8	unexcavated
S43	17.3			234.0	234.0	54.8	54.8	--	--	44	--	0.8	excavated

^a Portion of the structure interior exposed by excavations.

^b Portion of the structure exterior exposed by excavations.

^c Number of postholes in a 1 ft buffer on both sides of the structure's outline.

Table 3.5. Attributes of rectilinear structures.

Structure	North-South (ft)	East-West (ft)	Area (sq ft)	Area Excavated ^a	Perimeter (ft)	Perimeter Excavated ^b	Burials	Individuals	Postholes ^c	Burial Density (ct/sq ft)	Post. Density (ct/per.)	Excavation Status
Earth-embanked												
4b	26.2	27.1	708.4	708.4	95.5	95.5	2	2	125	0.005	0.612	excavated
22	21.0	21.3	447.5	447.5		74.2	--	--	70	--	0.944	excavated
23a	23.3	22.7	528.9	528.9		73.5	3	3	115	0.006	1.565	excavated
45a	27.0	28.0	754.4	754.4	82.0	82.0	2	2	71	0.003	0.866	excavated
45b											0.000	excavated
46a						75.8	2	2				excavated
46b							2	2		0.016	0.833	excavated
Large rectangular												
27	34.4		1182.0	1182.0		68.8	6	9	64	0.005	0.930	excavated
30b	40.1	30.3	1214.7	1214.7		112.5	5	5	97	0.004	0.863	excavated
32a	34.1	40.5	1641.9	903.8		116.6			157		1.346	unexcavated
44	31.2	42.2	1315.5	1315.5		83.1			97		1.167	unexcavated
Medium rectangular												
9a	18.7	19.4	362.8	362.8	72.1	72.1			64		0.784	unexcavated
16	31.0	26.1	808.8	808.8	111.0	111.0			64		0.577	unexcavated
21a	25.9	23.4	606.1	606.1	94.4	94.4			94		0.996	unexcavated
28	26.2	25.6	670.7	670.7	106.8	106.8	3	3	95	0.004	0.890	excavated
Small rectangular												
5b	10.0	16.0	160.0	160.0	44.1	44.1	2	2	30	0.019	0.636	excavated
38	7.8	13.1	102.6	102.6	43.8	43.8	--	--	32	--	0.731	excavated
39	5.9	8.6	50.8	50.8	36.3	36.3	--	--	35	--	0.964	excavated
41	7.9	9.7	77.0	77.0	40.9	40.9	--	--	27	--	0.660	excavated
Unassigned												
4a	32.9	34.0	1116.2	1116.2	122.4	122.4	5	5	155	0.003	1.309	excavated
23c	49.6	33.1	1638.5	1638.5	155.7	155.7	1	1	121	0.001	0.777	excavated
24	23.2	23.6	547.5	547.5	89.0	89.0	3	3	70	0.005	0.786	excavated
29	24.2	17.2	415.9	415.9	91.1	91.1	--	--	57	--	0.626	excavated
51	30.7	30.5	937.6	937.6	118.3	122.5	5	5	75	0.015	0.854	excavated

^a Portion of the structure interior exposed by excavations.

^b Portion of the structure exterior exposed by excavations.

^c Number of postholes in a 1-ft buffer on both sides of the structure's outline.

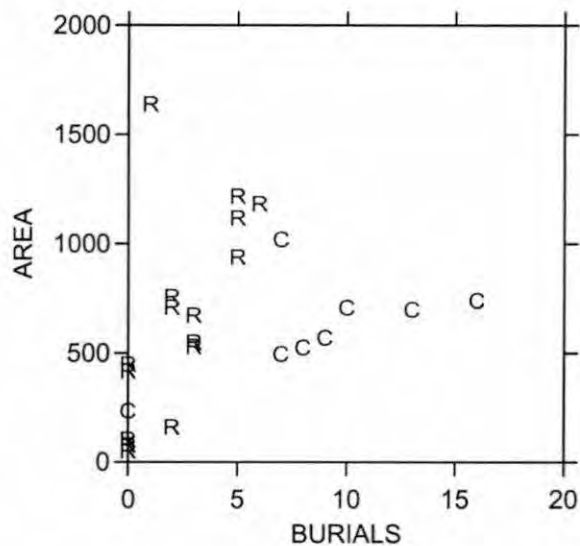


Figure 3.64. Scatterplot of the number of burials against structure area for excavated structures by structure shape (Note: For the Enclosed Circular Structures 1 and 7, the area of the exterior pattern of postholes was used).

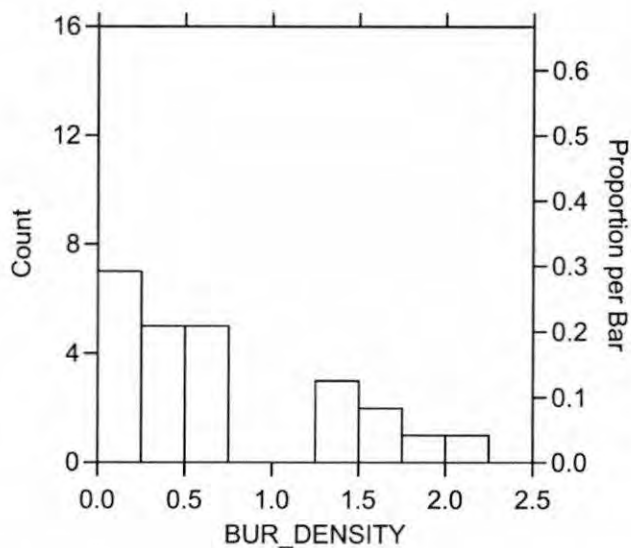


Figure 3.65. Histogram of burial density (count/100 ft²) by structure.

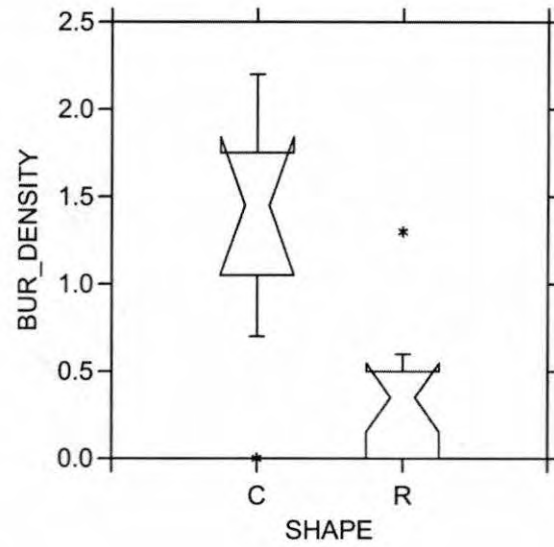


Figure 3.66. Eoxplot of burial density (count/100 ft²) by structure shape (circular or rectilinear).

Circular Structures

At least two different types of circular structures are present at Town Creek. One consists of a single circular pattern of posts approximately 30 ft in diameter. The other type of circular structure consists of two concentric, circular arrangements of posts that are approximately 30 ft and 60 ft in diameter. One possible interpretation of the two concentric patterns is that the outer circle represents the wall of the structure and the inner circle is the remains of an interior roof support system. Another interpretation is that the inner patterns represent the structure's wall while the outer is an unroofed enclosure.¹³ It seems that the structure-and-enclosure scenario is more plausible for several reasons. One is that the largest exterior circular patterns, measuring about 60 ft in diameter, would have represented enormous buildings. Buildings of this size and larger have been excavated in the southeast (Schroedl 1986:234; Shapiro and McEwan 1992:67), so they were clearly within the realm of possibility for aboriginal construction technology. However, they are usually singular examples of public architecture (see Schroedl 1986:219), referred to as townhouses, at late prehistoric and post-Contact period sites. Not only are the Town Creek examples earlier, but if they all were roofed buildings, Town Creek would have had at least four of these distinctive structures. Another reason to think that the exterior patterns do not represent the walls of roofed structures has to do with the inner patterns being poor candidates for roof supports. The postholes in the inner circular patterns at Town Creek are comparable to those of the outer patterns regarding their spacing and diameters. In contrast, the postholes at Town Creek that clearly held interior roof supports—all of which are found within rectilinear structures—consist of a few large, deep, widely spaced postholes. Additionally, the patterns of interior support posts within large, circular structures excavated elsewhere in the Southeast

are marked by regular spacing and massive size (Schroedl 1986:Figure 4.1; Shapiro and McEwan 1992:35). Also, the lack of post patterns between the inner and outer circles is not consistent with the fact that furniture, such as benches, was a common interior element of large, public buildings (Polhemus 1990:131; Rudolph 1984:33; Schroedl 1998:70). Therefore, in cases where concentric circular patterns exist, the interior pattern will be interpreted as the remains of a roofed building and the exterior pattern an unroofed enclosure.

A histogram of the area of all circular posthole patterns supports the idea that the exterior patterns in concentric sets are something distinctive (Figure 3.67). There is a break in the distribution at 1020 ft². All of the exterior patterns are in the group that is larger than 1020 ft². If the exterior patterns larger than 1020 ft² are removed from consideration, the resulting histogram shows a unimodal distribution (Figure 3.68). Thus, there seems to be two different types of circular construction at Town Creek based on size. One type is the Small Circular Structure that measures between about 500 and 950 ft² and the other is the Enclosed Circular Structure which consists of two concentric circles with the outermost being greater than 1020 ft². Interestingly, Structure 18 is approximately 1020 ft², suggesting that it may have been an unroofed enclosure surrounding Feature 58/Mg3. It is possible that the much smaller Structure 43 was a special-purpose building such as a corn-crib.

Excavated examples of Enclosed Circular Structures (Figure 3.69) include Structures 1 and 7. The interiors of these buildings contain large clusters of burials. Clear examples of unexcavated or partially excavated Enclosed Circular Structures include Structures 10 and 15b. These two buildings contain a number of large, unexcavated features that are likely burials. Structures 9b and 34 are possible unexcavated examples of Enclosed Circular Structures, although each is problematic because clear patterns of interior postholes could not

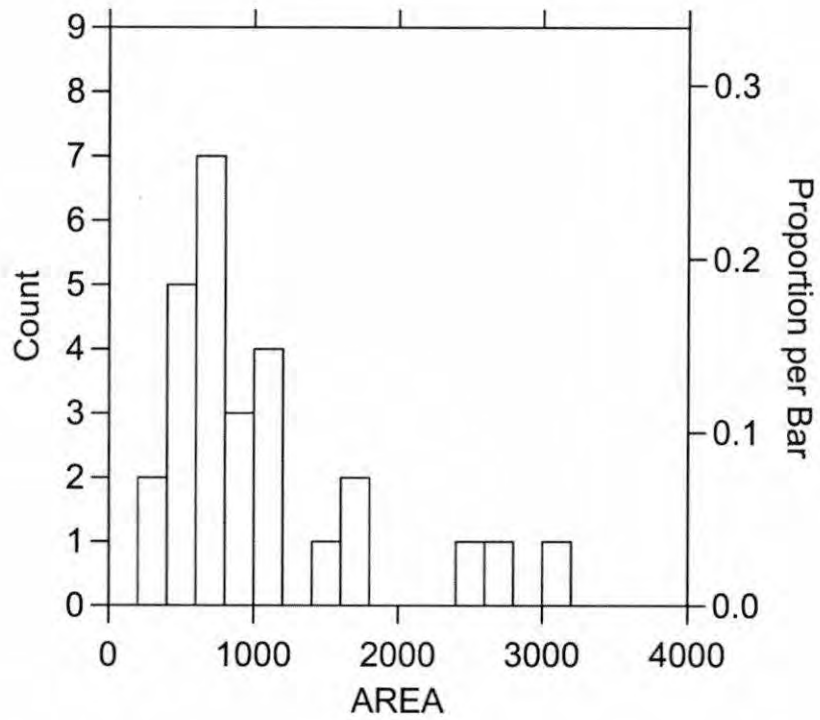


Figure 3.67. Histogram of area (ft²) of all circular structures.

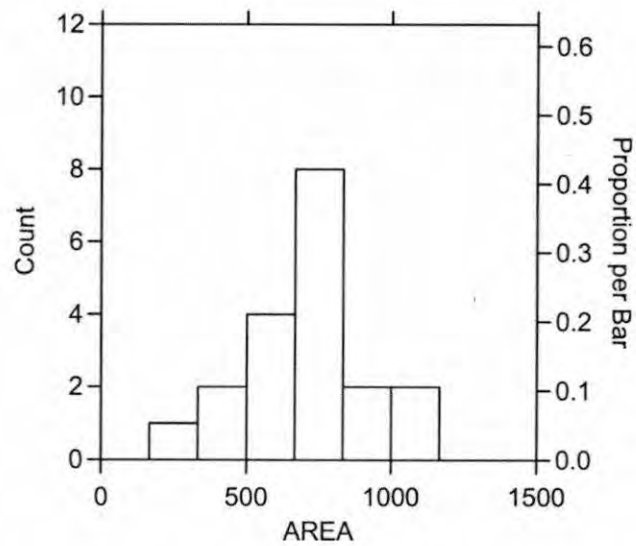


Figure 3.68. Histogram of area (ft²) of circular structures excluding exterior patterns in Enclosed Circular Structures.

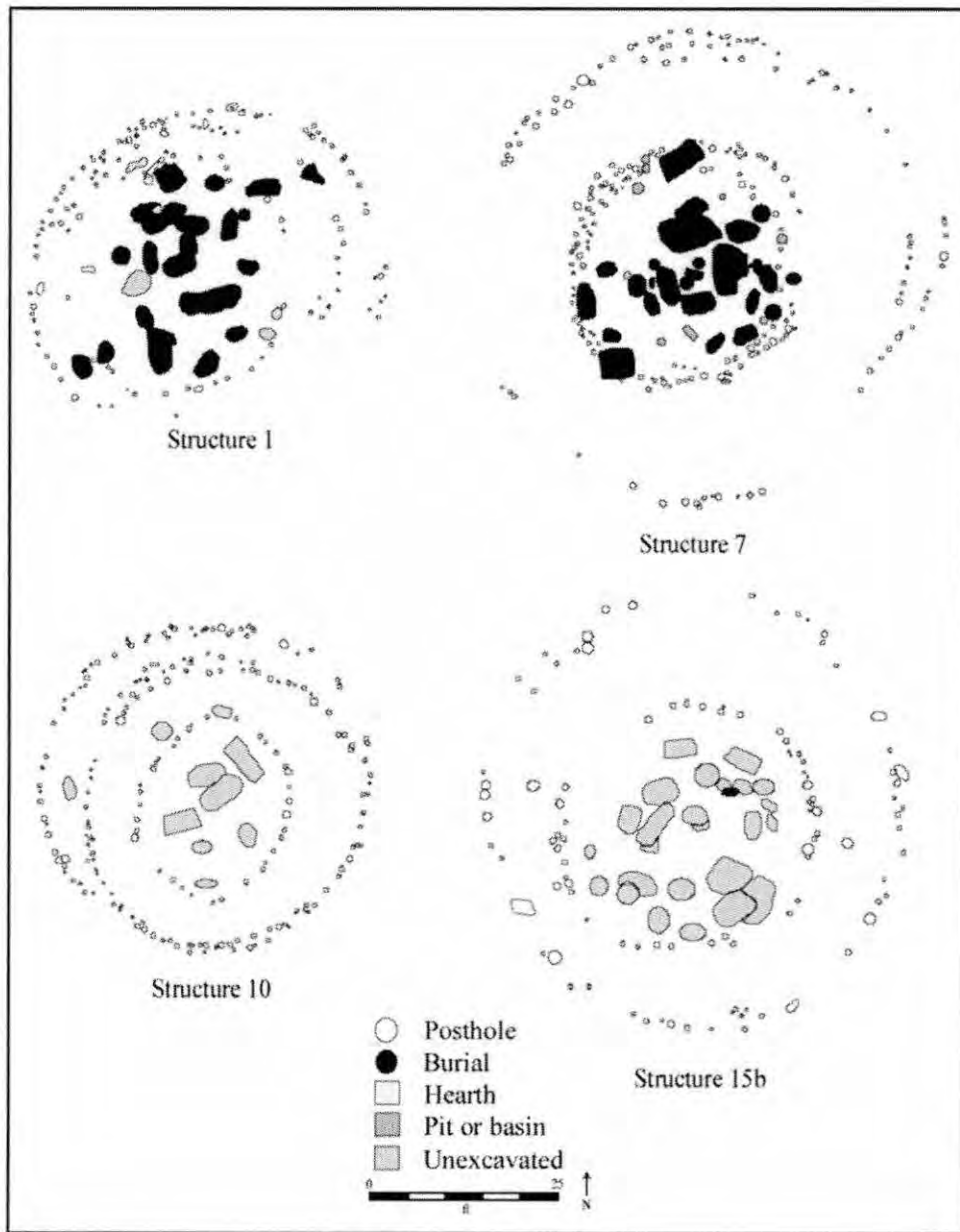


Figure 3.69. Enclosed Circular Structures.

be defined and there were no clear patterns to the large features within them. For these reasons, these structures will remain unclassified at this time.

Small Circular Structures measure between 25 and 34 ft in diameter and they do not appear to have had interior roof supports (Figure 3.70). They were likely flexed-pole constructions, consisting of posts that were individually set into the ground at one end while the other ends were lashed together to form a roof (Lacquement 2004:23; Lewis and Lewis 1995:60). These structures may have been similar to the circular, flexed-pole houses built by the Caddo of the trans-Mississippi Southeast (see Swanton 1996:148-154). The interiors of excavated Small Circular Structures at Town Creek contain clusters of features, most of which were burials. Excavated examples of the Small Circular type are Structures 2, 5a, 12, 14, and 49. In each of these cases, burials were placed in a square or circular arrangement around a central open space. Unexcavated examples of Small Circular Structures include Structures 8, 15a, 17, 31, and possibly 47, although none of these appear to have the same arrangement of internal features as the excavated Small Circular Structures. Structures 6 and 36 were only partially exposed, but their projected floor areas would place them within the range of Small Circular Structures.

A histogram of the number of burials associated with circular structures shows a break in the distribution around 20 individuals (Figure 3.71). Circular structures with fewer than 20 burials are all Small Circular while those with more than 20 are Enclosed Circular. This distinction in the number of burials and the architectural distinction of having a large, exterior, circular pattern is consistent with Small Circular and Enclosed Circular representing two types of circular constructions at Town Creek. It is unclear with Enclosed Circular Structures if the structure and enclosure were standing at the same time and would be

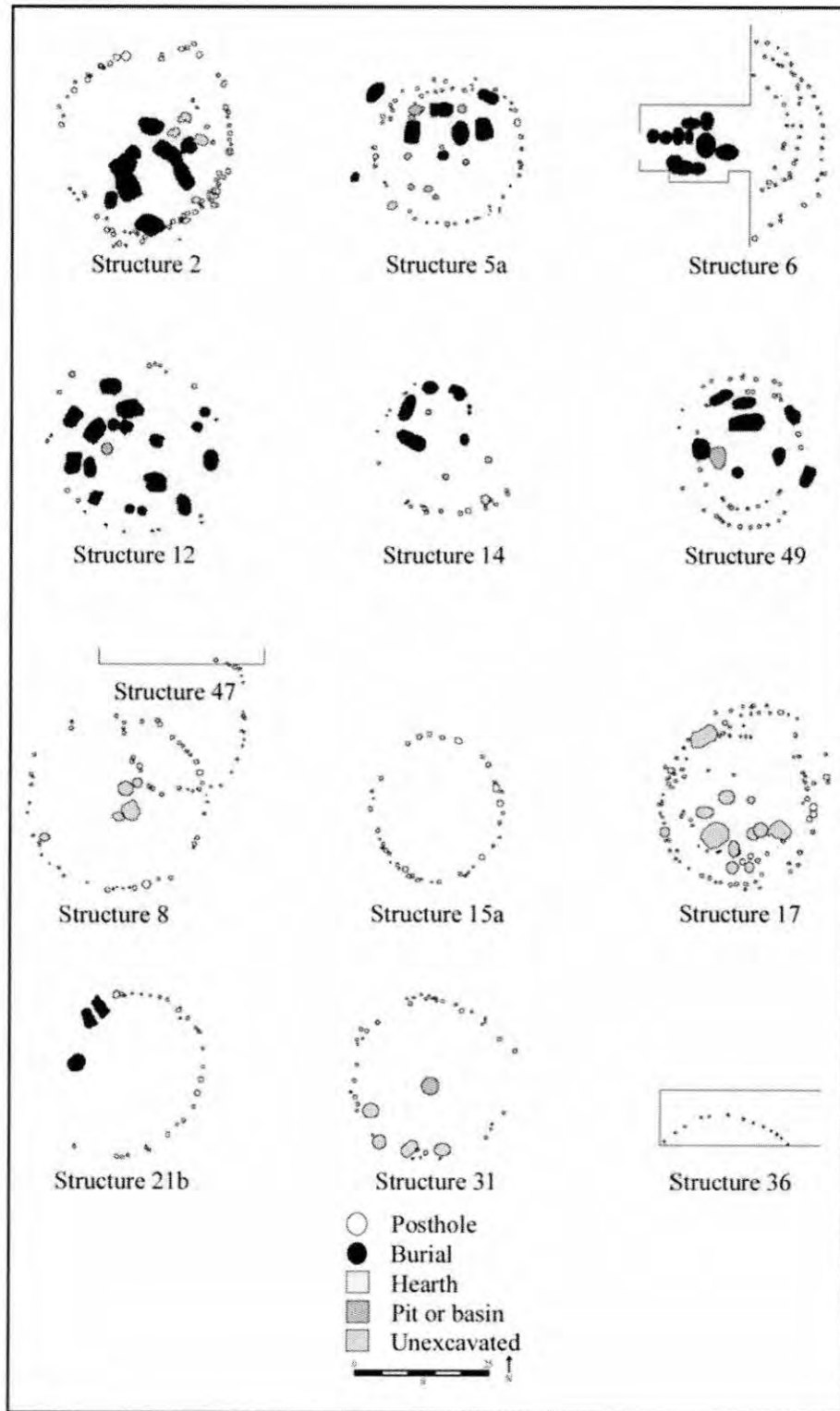


Figure 3.70. Small Circular Structures.

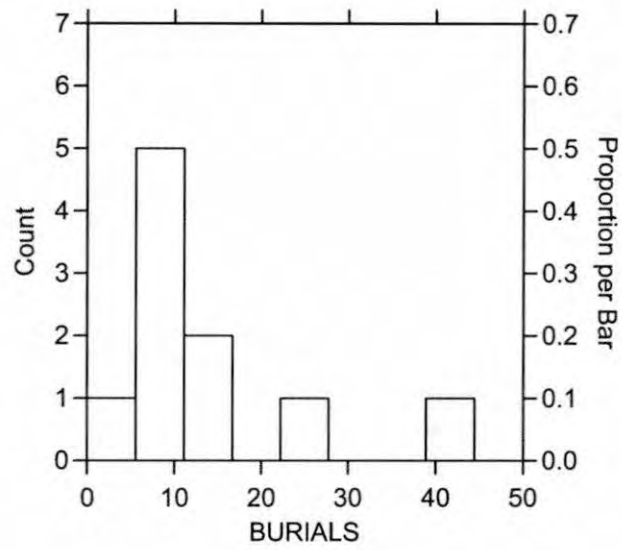


Figure 3.71. Histogram of the number of burials in circular structures.

considered a single architectural element or if one was built after the other. It seems likely that Enclosed Circular Structures 7 and 15 consisted of at least a partially contemporaneous structure and enclosure because the former is centered within and seemingly constructed in reference to the latter. In the case of Structure 1, however, the inner circular pattern is not centered within the exterior pattern. In this case, it seems that the exterior pattern enclosed the structure's space, but that a standing structure may not have been referenced.

Rectilinear Structures

A histogram showing the area of all rectilinear structures reveals several gaps in the distribution (Figure 3.72). Large Rectangular Structures are defined as those that had floor areas greater than 1000 ft² and a relatively low density of interior features (Figure 3.73). The low density of features was clear in Structures 27 and 30b, both of which were largely excavated and overlapped little with other structures. Structure 32, an unexcavated Large Rectangular Structure, contains a number of features densely clustered on its southern side; these were probably associated with an unrecognized circular structure. Structure 44 is poorly defined, but it is likely another Large Rectangular Structure, the exposed portions of which contain few large features.

Rectilinear structures that exhibit earth-embanked walls represent another structure type at Town Creek. While a partially preserved earth-embanked wall was directly observed in Structure 23a, earth-embanked walls are inferred in the case of Structure 4b, based on the field descriptions and photographs that indicate a mass of differently colored soil around and over the structure. The probability of earth-embanked walls are also inferred for Structures 22, 45a, and 46a based on the presence of entrance trenches (see Hally 1994:154). Earth-

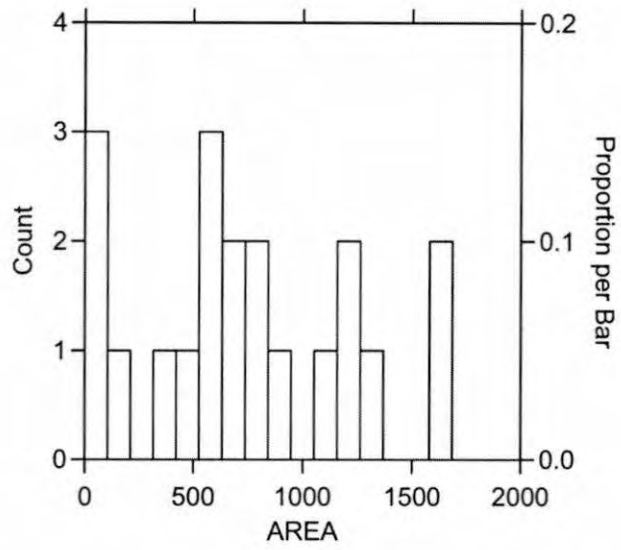


Figure 3.72. Histogram of area (ft²) of all rectangular structures.

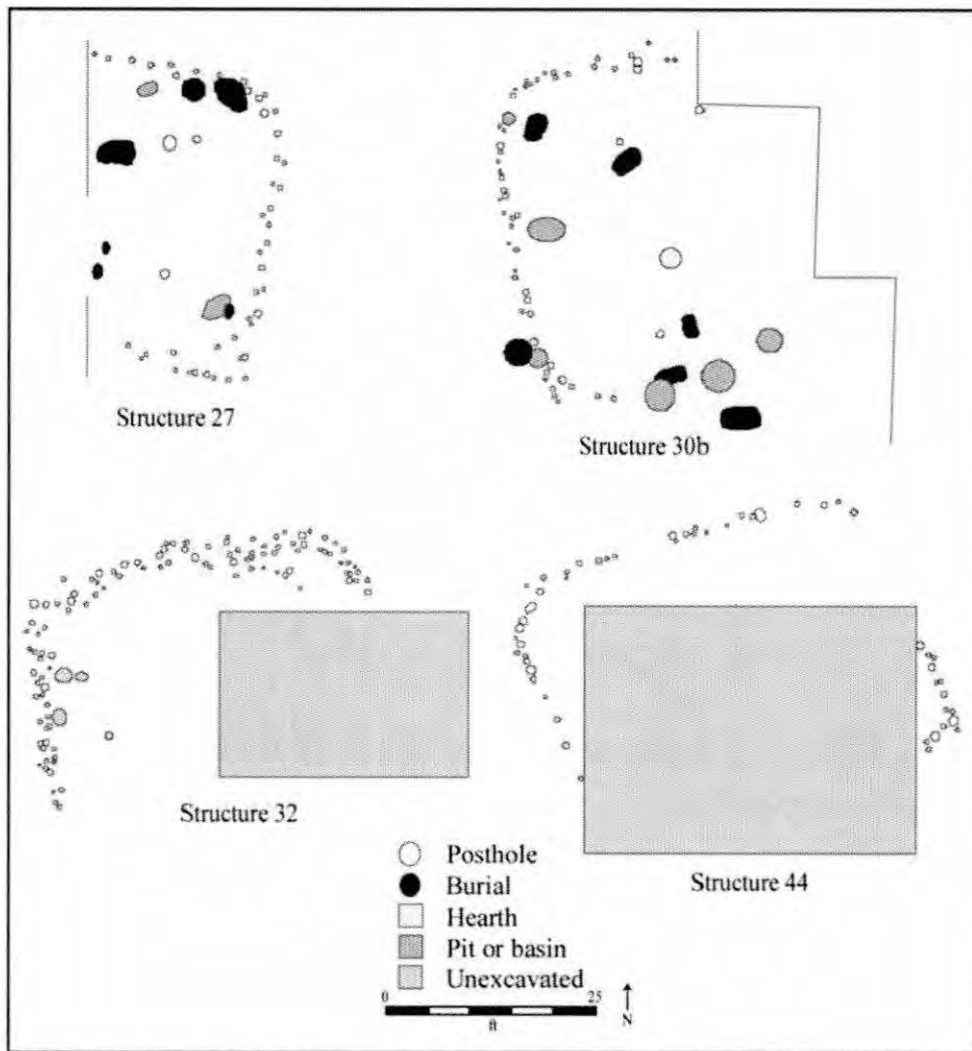


Figure 3.73. Large Rectangular Structures.

Embanked Structures had four large interior roof supports arranged in a square (Figure 3.74). Nearly all of these structures had a large hearth within the area defined by the roof supports. The one exception was Structure 22, the only Earth-Embanked structure that had been plowed. At least three of the Earth-Embanked Structures were paired with other structures.

Medium Rectangular Structures are almost square in appearance and their corners are oriented to the cardinal directions (Figure 3.75). Interior roof supports are represented by four deep pits arranged in a square. There are relatively few features inside Medium Rectangular Structures and those that are present are widely dispersed across the interior. Structure 28 is the only Medium Rectangular Structure that was fully excavated. Its interior contained four deep postholes (1.3 to 1.6 ft) and burials located in its northwest and northeast corners. Unexcavated examples of this type include Structures 16 and 21a, each of which had large features located in their northern corners. Structure 9a may represent the northwest corner of a Medium Rectangular Structure based on its orientation, but this structure is poorly defined at this time.

Four very small ($< 145 \text{ ft}^2$) rectangular buildings have been classified as Small Rectangular Structures (Figure 3.76). One of these, Structure 38, was first identified by Stanley South (1957b). Structures 38, 39, and 41 were not clearly associated with any internal features. Structure 5b was not associated with internal features either, but two burials appear to have been aligned with its walls.

Structures 4a, 24, and 51 are unique and have not been assigned to a structure type (Figure 3.77). The size and shape of Structure 4a places it within the definition of Large Rectangular Structures, but the possible presence of a portico and the central location of several burials makes it distinct. Structure 24 is unique because it is small, does not appear

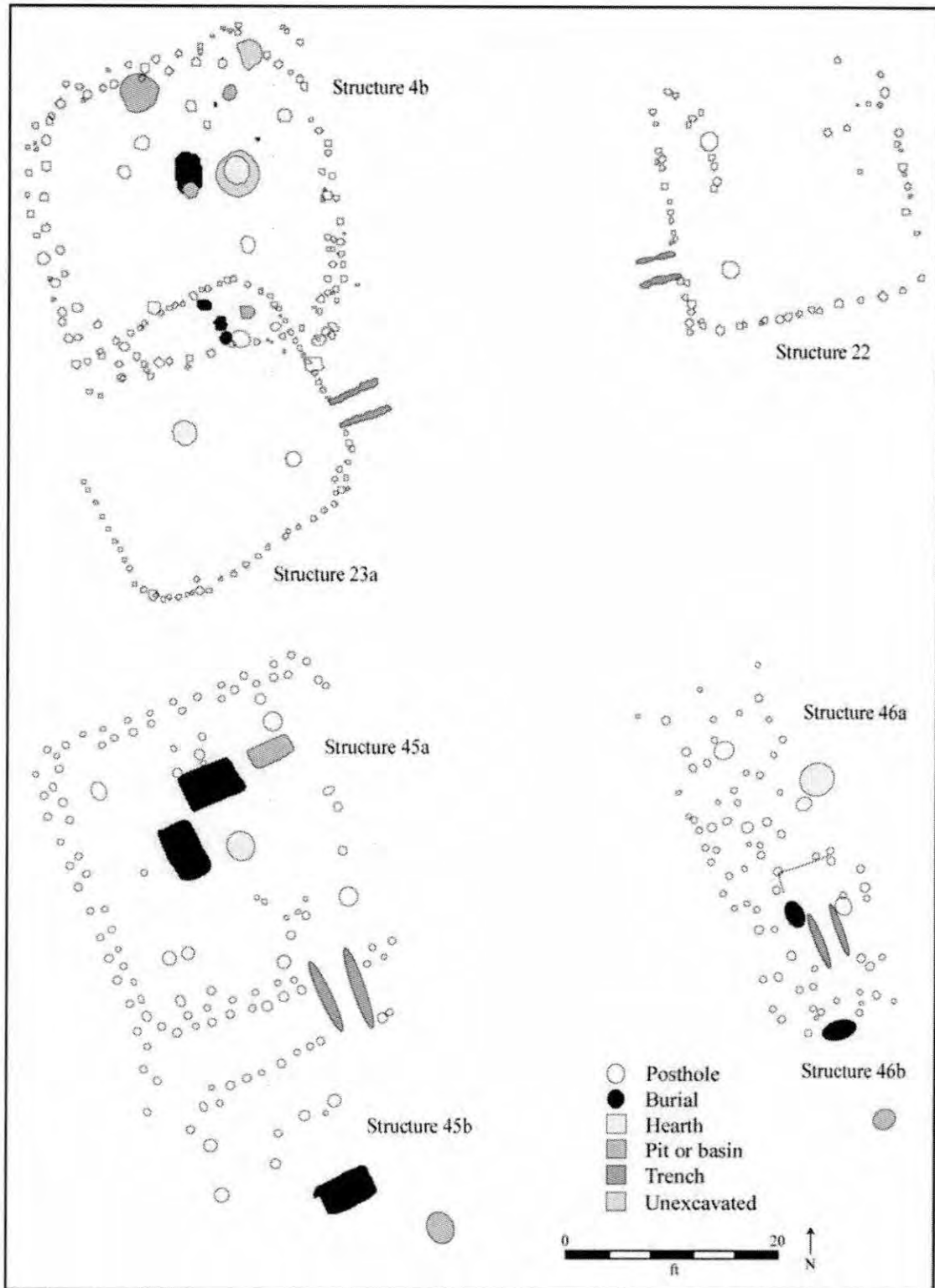


Figure 3.74. Earth-embanked Structures.

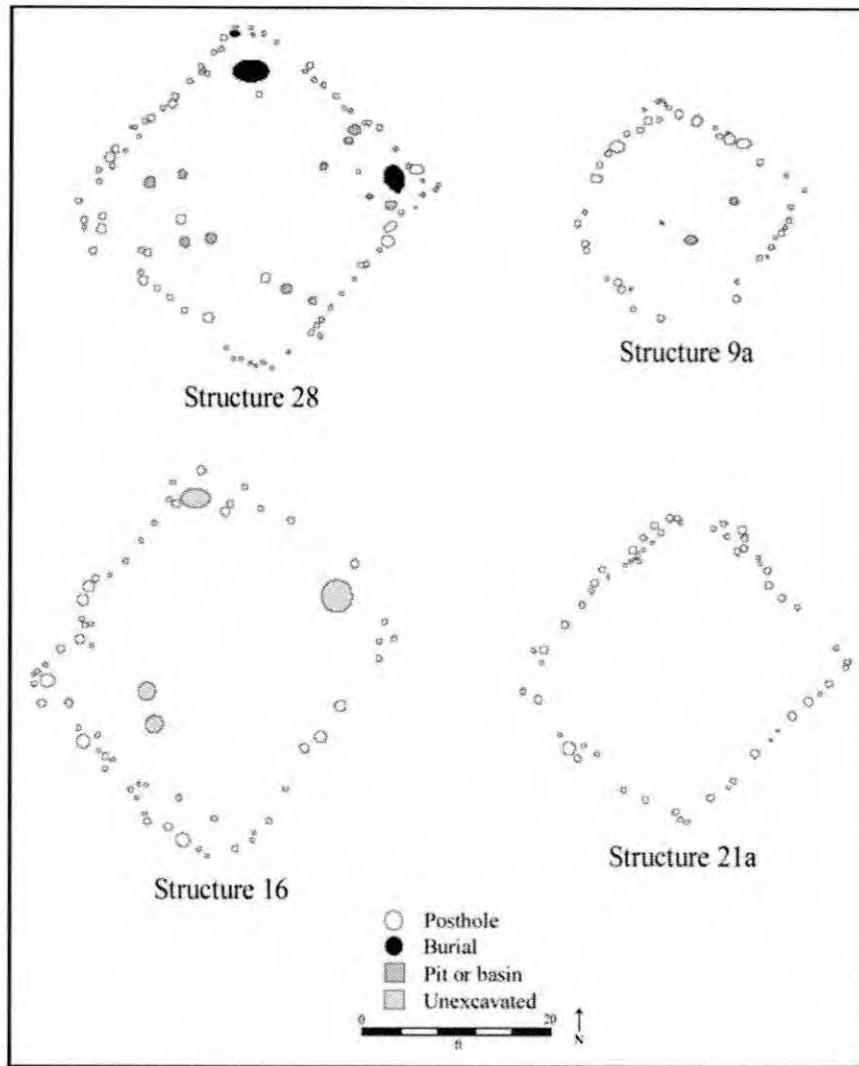


Figure 3.75. Medium Rectangular Structures.

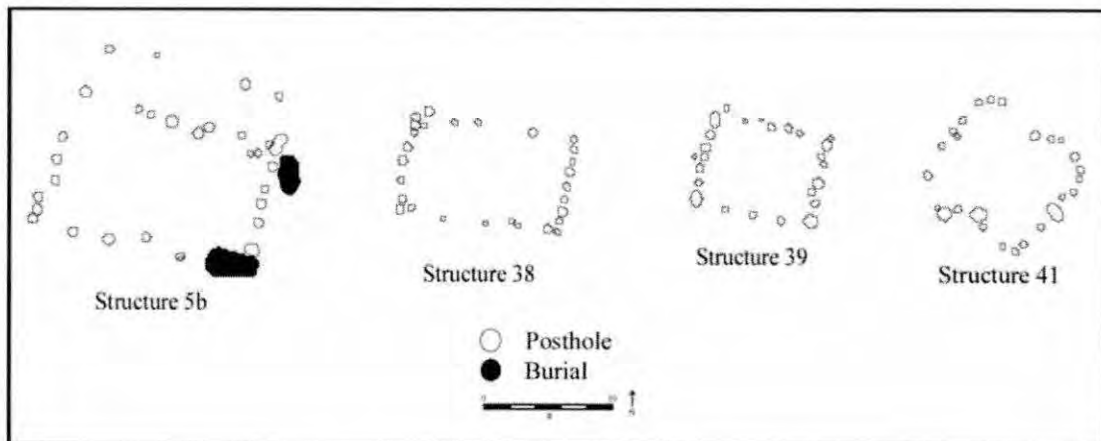


Figure 3.76. Small Rectangular Structures.

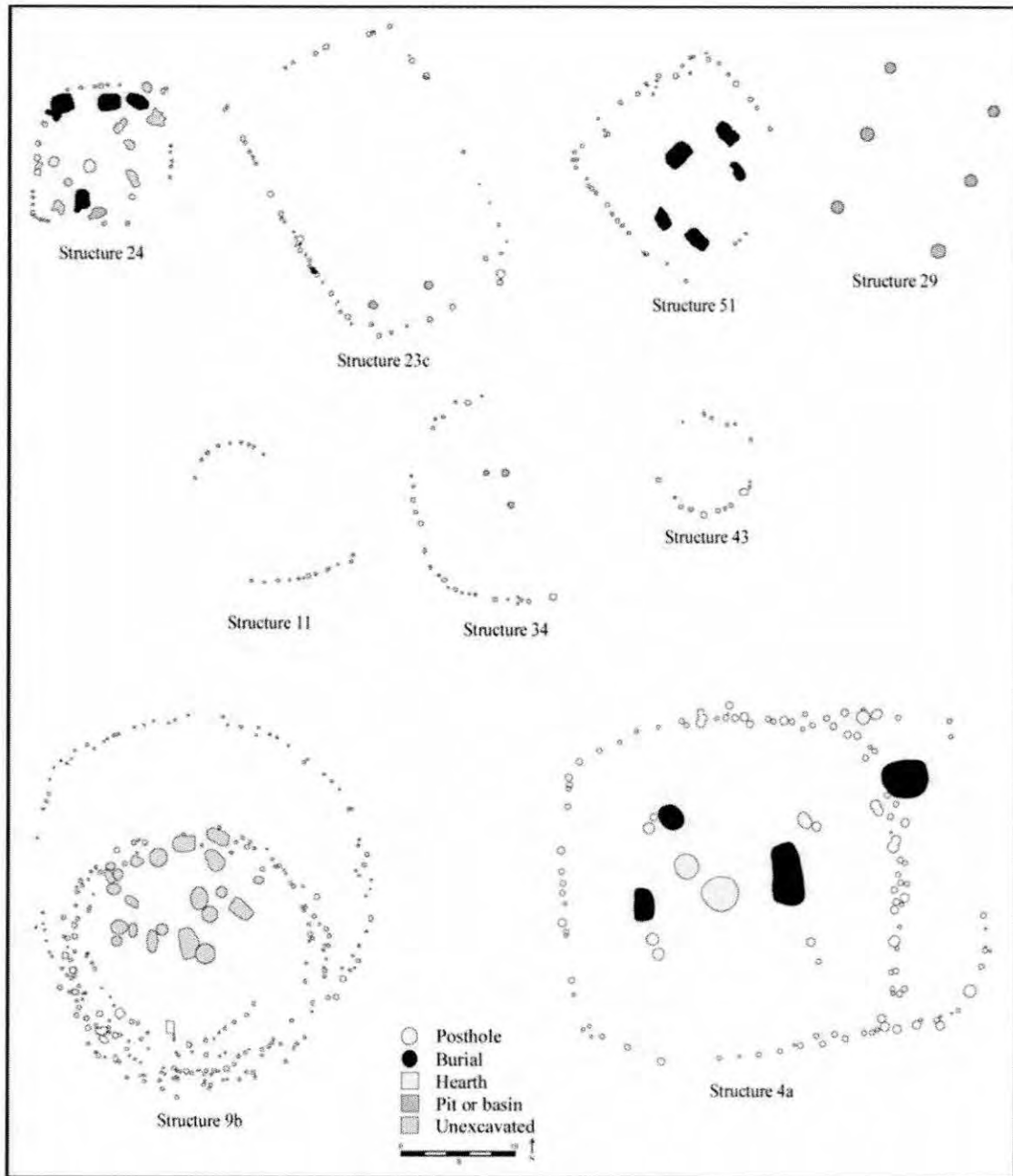


Figure 3.77. Unclassified structures.

to have had interior support posts, and has a line of burials along one wall. Although the orientation of Structure 51 is most similar to that of Medium Rectangular Structures, Structure 51 was not classified as such because it is larger and contains more burials.

Dating Structure Types

In this section, several methods are used to date structure types. One method is to examine the distribution of diagnostic pottery (e.g., surface treatments and rim modes) and dated features (Table 3.6). Another is to pool ceramic assemblages by structure type and compare them based on the ratio of plain to decorated rims.¹⁴ Diagnostic artifacts were used to date features which were in turn used to date the structure with which they were associated (Table 3.1). This can be extended even further to date the structure type represented by individual structures. Attributing individual structures and structure types to phases using diagnostic types is not a straightforward process at Town Creek. The density of posts and the degree to which architecture overlaps results in a situation in which pottery from many different phases was found in and around structures. Another way to date structures, and by extension structure types, is to evaluate stratigraphic and spatial relationships among individual structures. This will involve interpreting cases of overlap and superposition.

There are several indications that Small Circular Structures represent the earliest buildings at Town Creek. First, Structure 5a is clearly superimposed by the mound, indicating that it dates to the late Town Creek phase or earlier. A radiocarbon date of A.D. 1010 \pm 40 (cal. A.D. 1033-1153) associated with this building suggests it was used during the early Town Creek or Teal phases. Second, Structure 12 is the earliest one in the sequence of superimposed structures in the Eastern Area and it dates to the late Town Creek phase or

Table 3.6. Pottery by structure type.

Structure Type	Stamp Patterns											Rims										
	Non Pee Dee	Decorated	Plain	Unidentified	Arc Angle	Concentric Circles	Fillet	Herringbone	Line Block	Quartered Circles	Split Diamond	Non Pee Dee	Plain	Folded Punctated	Nodes	Pellets	Small Punctations	Lugs	Rosettes	Notched Strip	Punctated Strip	Thickened Exterior
Enclosed circular																						
1	24	64	21	2	-	4	1	-	-	-	1	29	-	-	-	-	2	-	2	-	-	
7	230	885	248	128	2	7	10	80	-	3	1	4	141	-	1	-	-	-	-	-	-	-
10	16	38	13	-	-	-	-	-	-	1	-	4	-	-	-	-	-	-	-	-	-	-
15b	104	419	141	20	-	-	1	-	-	1	1	4	38	1	-	1	2	-	1	-	-	-
21b	11	52	27	3	-	-	-	1	-	-	-	9	-	-	1	-	-	-	-	-	1	-
Sub-total	385	1458	450	153	2	11	12	81	-	5	2	10	221	1	1	2	2	2	1	2	1	-
Earth-embanked																						
4b	-	2	-	-	-	1	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
22	2	10	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
23a	-	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sub-total	2	20	4	1	-	1	2	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
Large rectangular																						
27	38	109	11	4	-	6	-	1	-	-	2	1	12	-	-	-	-	-	1	1	-	-
30b	49	255	104	8	-	-	1	-	-	-	-	2	42	1	-	3	1	-	2	-	1	1
32a	15	7	-	-	-	-	1	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
44	-	6	1	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Sub-total	102	377	116	13	-	6	2	1	-	-	2	3	60	1	-	3	1	-	3	1	1	1
Late Woodland																						
18	714	149	62	68	-	-	1	1	-	1	-	18	24	-	-	1	-	-	-	-	-	-
Medium rectangular																						
9a	9	19	5	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-
16	3	29	3	1	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
21a	1	11	5	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-
28	37	30	16	1	-	-	1	-	-	-	2	2	-	-	-	1	-	-	-	-	-	-
Sub-total	50	89	29	6	-	-	2	-	-	-	2	8	-	-	1	1	-	-	-	-	1	-
Small circular																						
2	24	85	38	2	-	-	1	-	-	1	-	2	21	-	-	1	1	-	1	-	-	-
5a	2	16	1	1	-	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
6	9	86	19	8	-	1	-	-	-	1	-	18	-	-	-	-	-	-	-	-	-	-
8	6	23	5	8	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
12	46	249	88	21	-	1	7	-	-	-	1	30	-	-	-	-	-	-	3	-	-	-
14	23	105	18	-	-	-	1	-	1	-	-	16	-	-	-	-	-	-	-	-	-	-
15a	14	33	14	1	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
17	7	62	18	19	-	1	-	-	1	-	-	8	-	-	-	-	-	-	-	-	-	-
31	26	94	36	-	3	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-
32b	7	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	42	106	24	3	-	1	1	-	-	-	1	14	-	1	-	-	-	-	-	-	-	-
Sub-total	206	864	261	63	-	7	10	2	-	4	-	4	135	-	1	1	1	-	4	-	-	-
Small rectangular																						
5b	-	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
38	2	14	4	1	-	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-	-	-
39	7	40	14	1	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
41	-	21	7	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
Sub-total	9	89	28	2	-	-	-	-	-	-	-	10	-	-	-	1	-	-	-	-	1	-
Total	1468	3046	950	306	2	25	27	87	1	10	4	37	459	2	2	7	7	2	8	3	4	1

Table 3.6 (cont.). Pottery by structure type.

Structure Type	Pee Dee Surface Treatments														Non Pee Dee Surface Treatments						Total								
	Brushed	Small Check St.	Large Check St.	Cob Impressed	Curv. Comp. St.	Wide Curv. Comp. St.	Rect. Comp. St.	Wide Rect. Comp. St.	Cordmarked	Fine Cordmarked	Fabric Marked	Net Impressed	Plain	Burnished Plain	Small Simple St.	Large Simple St.	Stamped	Textile Impressed	Unidentified	Brushed		Check Stamped	Cordmarked	Fabric Marked	Net Impressed	Plain	Simple Stamped	Unidentified	
Enclosed circular																													
1	-	-	-	-	18	-	4	-	-	-	-	-	10	2	-	-	2	-	1	-	1	2	1	-	-	-	-	191	
7	-	2	-	1	169	-	139	1	5	-	1	-	79	20	2	-	25	3	28	-	-	16	-	-	5	2	-	2239	
10	-	-	-	-	5	-	4	-	-	-	-	-	-	-	-	-	1	2	1	-	-	2	-	-	-	1	1	90	
15b	-	-	-	-	40	-	8	-	1	-	-	1	13	3	1	-	8	1	3	-	-	1	-	-	2	1	-	817	
21b	-	-	-	-	3	-	3	-	-	-	-	-	2	-	-	-	2	1	2	-	-	1	-	-	1	-	-	120	
Sub-total	-	2	-	1	235	-	158	1	6	-	1	1	104	25	3	-	38	7	35	-	1	22	1	-	8	4	1	3457	
Earth-embanked																													
4b	-	-	-	-	6	-	4	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	18	
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	
23a	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	
Sub-total	-	-	-	-	8	-	4	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	46	
Large rectangular																													
27	-	-	-	-	32	-	3	-	-	-	-	-	3	-	-	-	3	-	2	-	1	-	-	-	-	1	-	231	
30b	2	-	1	-	22	-	5	-	-	-	-	-	17	6	-	1	8	3	4	1	-	3	-	-	1	1	1	547	
32a	-	-	-	-	6	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	37	
44	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	12	
Sub-total	2	-	1	-	60	-	9	-	-	-	1	-	21	7	-	1	11	3	6	1	1	4	-	-	2	2	1	827	
Late Woodland																													
18	-	10	-	-	13	-	4	-	73	-	-	-	29	1	11	-	6	-	1	1	3	13	2	-	16	7	-	1229	
Medium rectangular																													
9a	-	-	-	-	4	3	2	-	-	-	-	-	1	1	-	-	-	-	2	-	-	-	-	-	-	-	-	52	
16	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	42	
21a	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	25	
28	-	-	-	-	4	-	5	-	-	1	-	-	8	1	-	-	-	-	2	-	-	2	-	-	1	-	-	114	
Sub-total	-	-	-	-	9	3	8	-	-	1	-	-	12	2	-	-	-	1	4	-	-	3	-	-	1	-	-	233	
Small circular																													
2	-	-	-	-	11	1	2	1	-	-	-	3	10	3	-	2	4	3	2	-	2	1	-	-	-	-	-	222	
5a	-	-	-	-	3	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	29	
6	-	-	-	-	14	-	6	-	1	-	-	-	3	-	-	-	3	1	5	-	-	-	-	-	-	-	-	175	
8	-	-	-	-	8	-	5	-	-	-	-	-	1	-	-	-	-	-	6	-	-	-	-	-	-	-	-	65	
12	-	1	-	-	31	-	17	-	-	-	-	-	7	4	-	-	11	4	6	-	-	1	-	-	2	-	-	530	
14	-	-	-	-	8	-	10	-	-	-	-	-	1	-	3	-	1	1	1	-	-	1	-	-	1	-	-	191	
15a	-	-	-	-	3	-	3	-	-	-	-	-	2	-	-	-	1	-	-	-	-	1	-	-	-	-	-	76	
17	-	-	-	-	5	-	1	-	-	-	-	-	1	1	-	-	3	-	-	1	-	-	-	-	-	2	-	130	
31	-	-	-	-	25	-	4	-	2	-	-	-	10	1	1	-	11	-	3	-	-	-	-	-	1	1	1	238	
32b	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	
49	-	-	-	-	20	-	10	-	-	-	-	-	11	4	-	-	3	2	7	-	2	-	1	-	-	1	-	254	
Sub-total	-	1	-	-	130	1	59	1	3	-	-	3	46	13	4	2	38	11	30	1	4	4	1	-	4	4	1	1924	
Small rectangular																													
5b	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-	-	2	-	1	-	-	-	-	-	-	-	-	25	
38	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	29	
39	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	70	
41	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	1	-	-	-	-	-	35	
Sub-total	-	-	-	-	2	-	1	-	-	-	-	-	5	1	-	-	4	1	4	-	-	1	-	-	-	-	-	159	
Total	2	13	1	1	457	4	243	2	82	1	2	4	218	49	18	3	98	23	80	3	9	47	4	0	31	17	3	7875	

earlier. Third, Structure 31 had a large early Town Creek-phase pit (Sq. 90L70-Pit 10/Mg3) located at its center. The diagnostic pottery associated with Small Circular Structures is largely consistent with an early or late Town Creek-phase designation. The one exception to this pattern is a burial associated with Structure 49 that contained an early Leak-phase rim treatment.

Enclosed Circular Structures are generally associated with pottery from the Leak phase. Structure 1 contained late Leak-phase burials. Structure 7 contained early Leak-phase burials.

It is clear from the stratigraphic sequence of submound and mound contexts that Earth-Embanked Structures span the period that immediately predates mound construction through the use of the first few mound stages. The Earth-Embanked Structure 23a was the last premound structure and Earth-Embanked Structures 46a and 46b were the upper of two superimposed pairs of summit structures. If the stratigraphic and chronological information from the Mg2 and Eastern areas are pooled, it seems that the ground-level Earth-Embanked Structures date to the late Town Creek phase or earlier. Rim treatments from the stratified deposits in the mound indicate that structures 45 and 46 date to the Leak phase or later. Also, a similarity in artifacts between mound-summit burials and Leak-phase burials within Enclosure 1 (see Chapter 5) in the Eastern Area suggests that the upper Earth-Embanked Structures on the mound summit could date to this phase or later.

The evidence is consistent with Large Rectangular Structures dating to the late Town Creek and/or early Leak phase or later. Structure 30b contained late Town Creek and early Leak-phase features in its interior and one of its walls was superimposed by a late Leak-phase feature. Structure 27 had a late Leak-phase posthole in one of its walls, suggesting that

this building may have been removed during this time or later. Two of the four Small Rectangular Structures also date to the Leak phase or later. Structure 5b superimposed a Leak-phase burial and Structure 38 had a Leak-phase posthole in its interior.

There are several indications that Medium Rectangular Structures represent the latest identified structures at Town Creek. First, Structure 28 has Leak-phase postholes in and around it, suggesting that the structure was removed or remodeled during this phase or later. Second, Structure 21a, although only partially excavated, had several Leak-phase pits in and around it. Third, Structure 9a, although poorly defined and only partially excavated, had several Leak-phase features in and around it.

Assemblages by Structure Type

The distribution of diagnostic artifacts and dated features suggests that: Small Circular Structures date to the earlier part of the Mississippian sequence; Earth-Embanked to both the early and middle parts; Large Rectangular and Small Rectangular Structures date to the middle; and Medium Rectangular Structures date to the later end of the sequence. This potential sequence of structure types at Town Creek can be evaluated through the chronologically sensitive ratio of plain to decorated rims discussed in Chapter 2. In order to use this ratio effectively, assemblages were pooled within each structure type because of the generally small sample sizes associated with individual structures. An arrangement of structure types in decreasing order based on this ratio (Figure 3.78) is consistent with the sequence of structure types based on diagnostic types and rim modes. If the rim ratio is an accurate measure of time, then the arrangement of structure types from earliest to latest for those with sufficient numbers of rims would be Late Woodland (Structure 18), Small

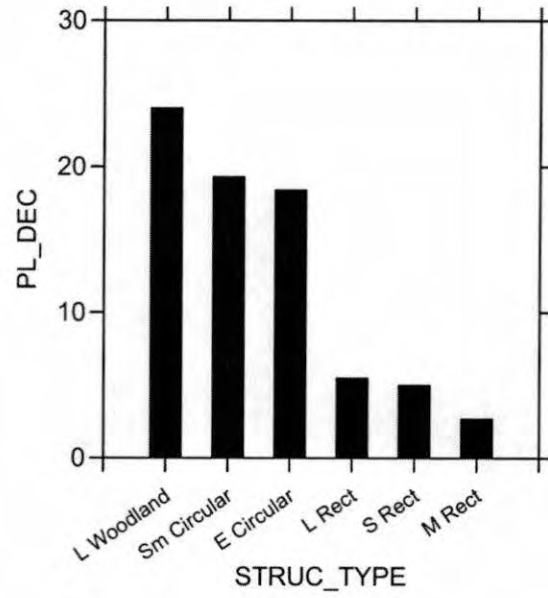


Figure 3.78. Bar chart of ratio of plain to decorated rims by structure type.

Circular, Enclosed Circular, Large Rectangular, Small Rectangular, and then Medium Rectangular.

CONCLUSION

The quantity and density of features at Town Creek resulted in a bewildering site plan that was not conducive to defining and investigating individual structures. An examination of the thousands of features at Town Creek aided by GIS has allowed the definition of numerous architectural elements, including structures, enclosures, palisades, and burial clusters. Patterns among structures in architectural attributes (e.g., shape, size, and burial density) suggest that there are several types of structures represented at Town Creek. Associated ceramics have allowed the arrangement of these structure types into a relative chronological sequence that spans Town Creek's Mississippian occupation. In subsequent chapters, the structures and structure types will provide the spatial and temporal basis for exploring variation and change in site structure and leadership at Town Creek.

Endnotes to Chapter 3

1. Fieldwork has taken place at Town Creek since 1983 to stabilize part of the site that is eroding adjacent to the Little River (Carnes-McNaughton n.d.). However, excavations during the summer of 1983 were the last ones under Coe's direction.
2. When Davis began this project, he was not aware of any maps of Mg3 features in the Town Creek collection other than the plot sheets for individual units. Maps showing larger contiguous portions of Mg3 were later discovered in Coe's personal papers, but it seems that these maps were also compilations of plot sheets from individual units.
3. The numbering scheme used for structures and burial clusters is an outgrowth of Driscoll's study of mortuary patterns at Town Creek (2001). Driscoll numbered both structures that had been identified in the field and dense clusters of posts she believed were structures. She also numbered clusters of burials that were not clearly associated with any structure. I have used her numbers in cases where the elements I identified corresponded to either the structures or the burial clusters she identified. I have assigned unique numbers in cases where correspondence is lacking. Any gaps in the sequence represent structures that I identified early in the process but reconsidered in subsequent analyses. There are several instances in which the same number with different letter designations was assigned to structures. This was done in cases where structures overlapped substantially because early in the process it was often unclear if these represented distinct structures or different parts of the same structure.
4. Although I analyzed the pottery from every subplowzone feature at Town Creek, only those data from features associated with architectural elements are presented here because of the space necessary to show all the data. All of the ceramic data produced for this research are on file at the RLA.
5. The ceramic assemblages associated with structures came from the fill of postholes that composed the structure's walls and the fill of burials and other features inside the structure. Few ceramics at Town Creek came from features within structures other than postholes and burials. Thus, these two types of features provided the bulk of the pottery that was used to date structures, and there are special considerations that must be kept in mind when using artifacts from these types of features. It has been argued that the fill of some types of large features (e.g., storage pits, large basins, etc.) represent discrete, coherent, short-term events (see Dickens 1985:42-43; Hayden and Cannon 1983:144). The logic behind this argument is that once these features had served their purpose, they would have been rapidly filled with household refuse because of the nuisance of having a large hole within one's living space and because of the convenience of having a trash receptacle at hand. Thus, the fill of pits and basins may closely date the use-life of the structure with which they are associated. In contrast, the fill of postholes and burials cannot be interpreted this way. The fill within postholes could have arrived there only after the post itself had been removed. Thus, the contents of a posthole can provide a *terminus post quem* for a structure's re-building or removal, meaning posthole inclusions can be used to estimate the end of a structure's use rather than the date of activities that occurred during its use. While burials are indeed large pits and represent short-term events, there was not a lot of time between the excavation and the filling of the pit. It seems likely that the dirt excavated for

the pit was placed right back in it after the interment had occurred. Thus, burial fill should contain primary refuse that represents sherds that were unintentionally lost in and around households (LaMotta and Schiffer 1999:21; Schiffer 1987:58). The multi-component nature of Town Creek and the fact that most burials were found within the ring of structures surrounding the plaza means that the fill of burials at the site could contain artifacts from a long segment of the site's occupation. While burials are presumably more representative of a structure's use than the fill of its postholes, the fact that the fill could contain artifacts from all earlier occupations of the site must be kept in mind. While artifacts in direct association with interred individuals can be thought of as events associated with the use of the structure, relatively few of the burials at Town Creek were directly associated with pots, so most of the dating of burials was based on sherds in burial fill.

6. It seems that the excavators were too liberal in what they defined as Level X. It is often the case that mound-flank deposits are limited to one part of the mound (Hally 1994:157; Smith and Williams 1994). In contrast, the excavators at Town Creek identified Level X in several parts of the mound. I do not think that all contexts identified as Level X by the excavators were part of the same layer. For the purposes of my research, I have considered as Level X only those contexts that were located on the south side of the mound, especially around its southern corner. This encompasses the midden first encountered by Coe in an exploratory trench in 1937 as well as contexts designated as Level X in contiguous excavation units.

7. The structures on the western part of the Dyar mound had prepared clay floors and were clean of refuse. The southwestern structure on the west side of the mound had an elaborate, modeled clay hearth. The northwestern structure also had a hearth, but it was not as well-defined as the prepared clay hearth in the southwestern structure (Smith 1994:Figure 14). The open shed on the eastern, lower part of the mound summit contained two, well-spaced hearths that were not as well-defined as the prepared clay hearth in the southwestern structure (Smith 1994:Figure 14).

8. The smaller structures at Toqua had earth-embanked walls and centrally located, prepared clay hearths (Polhemus 1987:268-285). The northern structure had an entrance trench that faced the east and an entrance trench that connected it to the southern structure (Polhemus 1987:Figures 5.20 and 5.27). Several of these smaller structures contained burials, but several others did not. The large, rectangular structures on the eastern side were described as open pavilions or porticos (Polhemus 1987:354-355). Burials of high-status individuals were located within one of these open structures (Polhemus 1987:354).

9. The grid points of the corners for this block of units was the Mg2 grid origin point at the southeast corner, 0L20 at the southwest corner, 100L20 at the northwest corner, and 100R0 at the northeast corner. The eastern row of units in this block consisted of those that began with the designation "BL" for baseline. The western row consisted of those that ended in "L10."

10. 820 ± 40 ; Beta 201468; corn cob; $\delta^{13}\text{C} = -11.2 \text{ ‰}$.

11. 940 ± 40 ; Beta 201469; corn cob; $\delta^{13}\text{C} = -11.3 \text{ ‰}$.

12. In some cases, burials were located near a structure but outside of it. For the sake of simplicity, I counted these in the burial density ratio.
13. Coe (1995:266 and 268) also faced the dilemma of deciding if the large, circular patterns at Town Creek represented structures with roofs or open enclosures, although he did not indicate his final thoughts on the matter.
14. In Chapter 2, the ratio of decorated to plain small sherds also was discussed as being chronologically sensitive. However, this ratio shows no differences among structure types. This could be the result of several things. It could be that the temporal differences among structure types are minimal. This probably was not the case, though, because a great deal of time is represented at Town Creek based on the range of radiocarbon dates, the degree of overlap and superposition among structures, and the density of features. Another reason for an essentially flat ratio across the structure types could be that the ratio is not a good measure of time. This also seems unlikely because the ceramic sequence discussed in Chapter 2 clearly shows an increase in plainwares through time. A third possibility—the one I think explains the lack of differences in the ratio of decorated to plain rims among structure types—is that because of the overlapping nature of the deposits at Town Creek, a preponderance of decorated pottery early in the site's history would not have been offset in mixed deposits by the deposition of proportionally more plain sherds later in time. Even though the proportion decreases through time, the differences are not that dramatic. For example, the ratio of decorated sherds to plain sherds for the Teal phase is only about four times larger than that for the Leak phase. In contrast, the ratio of plain to decorated rims is about nine times larger in the Teal phase than in the Leak phase. Thus, the decorated to plain sherd ratio should be useful with assemblages that represent a short-term deposition, but will be of less utility with mixed assemblages.

Chapter 4: Occupational History of Town Creek

Town Creek provides an opportunity to examine the changes that took place within a Mississippian community over a long period of time. Part of this study includes a diachronic comparison of the community before and after mound construction. Another aspect of this study is to explore synchronic intracommunity differences. In this chapter, a brief history of the late prehistoric through early historic-period community that existed at Town Creek is presented. Diachronic and synchronic aspects of Town Creek's architecture are addressed by attributing architectural elements to different periods in Town Creek's history. The history of Town Creek is discussed in terms of different occupations. While these occupations are based on the phases discussed in Chapter 2, the two cannot be equated because it does not appear that the site was occupied for the entire Town Creek or Leak phases as I have defined them.

The discussion of each occupation consists of the buildings, burial clusters, and other architectural elements that appear to date to the same period, at least in an archaeological sense. A number of excavated burials and other features, as well as some unexcavated structures, are not assigned to an occupation because it is unclear where they should be placed temporally. Contemporaneity is determined directly in some cases based on associated ceramics or patterns of overlap and superposition. In other cases, it is inferred based on architectural similarities (e.g., examples of a structure type date to the same phase). Also, spatial relationships among architectural elements and overall site structure are

considered. While each occupation is discussed as a discrete stage in Town Creek's history, the evolution of the site likely was a gradual process and the reader should keep in mind that each occupation is an arbitrary division—based on attributes of ceramics, architecture, and site structure—of a continuous history.

PUBLIC AND DOMESTIC ARCHITECTURE IN THE SOUTHEAST

Mississippian towns generally can be thought of as being divided into domestic and public spheres (Hally 1994:233; Holley 1999:28; Lewis et al. 1998; Polhemus 1990:134). The domestic sphere would have included the structures and facilities used and controlled by individual households to perform the production and consumption activities necessary for the household's maintenance (Wilk and Netting 1984). As the composite product of the entire community's daily activities, the domestic sphere constitutes the bulk of most archaeological collections. I assume that domestic structures were built by household or community groups that drew from a long tradition of efficient construction techniques (see McGuire and Schiffer 1983:278). Assuming also that these techniques would have been stable and subject to only gradual change, contemporary dwellings in the same community should be similar architecturally. Since each household would have performed its activities largely independently, the domestic structures across a community should be characterized by repetitive facilities and assemblages (Winter 1976:25). In the South Appalachian Mississippian region, houses have been identified based on their similarity in size and style as well as on the presence of artifacts and ecofacts that are consistent with domestic activities (Hally and Kelly 1998:53).

The public sphere cross-cut the domestic by drawing from individual families resources and people to fill public roles within the community (Dillehay 1990:230). The activities that took place within the public sphere included the community-level storage of resources, the performance of rituals, and the conducting of political affairs (Hally 1996:93-94). Forms of Mississippian public architecture included special-purpose buildings, delineated open spaces, monuments made from wooden poles, and earthen platform mounds (Knight 1985; Lewis et al. 1998).

Public structures, as focal points within the community, are distinct from domestic buildings for functional as well as ideological reasons (Marcus and Flannery 1996:87). Mississippian public buildings were often literally set apart, either vertically or horizontally, from the rest of the community. Public buildings were located in prominent places (e.g., mound summits, adjoining the plaza, in a central location, or on a natural elevation) (Holley 1999:30; Kelly 1990; Polhemus 1990:131; Schroedl 1998:78; Sullivan 1987:27). Mississippian public buildings often are distinguished from domestic structures by both external and internal construction characteristics. They are usually larger than contemporaneous houses (Blitz 1993a:84; Hally 1994:241; Hally and Kelly 1998:54; Holley 1999:30; Polhemus 1990:131; Rudolph 1984:33; Ryba 1997:44; Schnell et al. 1981:137; Schroedl 1998; Sullivan 1995). Unlike domestic buildings, some public structures were paired with smaller buildings (Blitz 1993a:70; Hally 1994:241; Polhemus 1990:131; Rudolph 1984:33; Schroedl 1998:70). Public buildings sometimes were oriented the same as other nondomestic buildings (Blitz 1993a:84). Some public buildings were constructed differently (e.g., with earth-embanked walls) (Rudolph 1984:33) or rebuilt more frequently (Blitz 1993a:82; Kelly 1990; Pauketat 1992:37) than domestic structures. Interiors of some public

structures were distinct because of unique furniture (e.g., prepared clay altars, benches, or hearths) (Kelly 1990; Polhemus 1990:131; Rudolph 1984:33; Schroedl 1998:70), more partitions (Hally and Kelly 1998:54; Holley 1999:30; Ryba 1997:35; Schroedl 1998:70; Shapiro and McEwan 1992:10), or more open space between the central support posts (Polhemus 1990:131). Additionally, many Mississippian public buildings contain associated burials considered to be unique because of their associated artifacts (e.g., large quantities and/or high quality) or age-sex composition (e.g., an overrepresentation of adult males) (Hally 1994:241-245; Polhemus 1990:131; Sullivan 1987:27, 1995:117-118).

Public and domestic structures are distinguished at Town Creek based on attributes of architecture that include size, location, and construction techniques, as well as the types and arrangements of associated features. The ensuing discussion considers the most common type of structure domestic while those that have unique architectural attributes (e.g., size, pairing, placement) are considered public. Public structures are recognized using certain attributes of their construction—primarily size, orientation, and construction methods. Public buildings also are identified based on aspects of their associated burial population, primarily burial density and age-sex profiles.

LATE WOODLAND-PERIOD OCCUPATION (CA. A.D. 800 TO 1000)

Pottery that predates the Pee Dee occupation is ubiquitous at Town Creek, which clearly indicates the presence of a Woodland-period occupation. Unfortunately, this component is typically manifested as a few Woodland sherds mixed with predominantly Mississippian materials (see Coe 1995:90). The only exceptions are Feature 58/Mg3 and several of the smaller features it superimposes. Thus, Structure 18 appears to be the only

clearly Woodland-period structure at Town Creek. The presence of a stone, bent-tube, winged pipe with incised geometric designs (Figure 3.60) in one of the burials (Burial 135/Mg3) in Structure 18 indicates that it is a Late Woodland construction (see Irwin et al. 1999:77).

Structure 18 consists of a large (36 ft diameter), circular arrangement of well-spaced postholes surrounding a broad, shallow circular feature (Feature 58/Mg3). The large area encompassed by the circular posthole pattern and the lack of interior support posts is consistent with it having been an enclosure rather than a roofed building. In Chapter 3, circular constructions approximately 1020 ft² or greater in area were interpreted as unroofed enclosures and Structure 18 is 1019 ft² in area. The excavators in the field interpreted the circular feature located within this enclosure as a single large feature that superimposed and was superimposed by a number of smaller ones.¹ Coe (1995:90) referred to this set of features as the Yadkin Hearth Circle, which was formed by “a chain of overlapping hearths contained in a circular ditch.” It seems likely that Feature 58/Mg3 represents a palimpsest of numerous features—including hearths, postholes, pits, and burials—that were serially placed in the same, circumscribed space. This would explain why Feature 58/Mg3 superimposed and was in turn superimposed by a number of smaller features. It would also explain why the burials within Structure 18 are all within or adjacent to Feature 58/Mg3 rather than being clustered near the building’s center as is the case with other constructions.

Structure 18 and Feature 58/Mg3 are similar to features that have been documented at several South Appalachian Mississippian sites. One of these is at Coweeta Creek in western North Carolina where a shallow, segmented, circular ditch feature (Feature 37-Ma34) with an opening to the southwest was excavated (Rodning 2004:107). Rodning (2004:353-354)

attributes this feature to a period prior to the Middle Qualla phase (A.D. 1500-1650) founding of the town at Coweeta Creek. Feature 37 at Coweeta Creek and Feature 58 at Town Creek are approximately the same size, with the former being about 40 ft in diameter (Rodning 2004:107) and the latter 36 ft. Interestingly, the circular ditch features at Town Creek and Coweeta Creek are also similar in that they both occupy the same location relative to each site's plaza and single mound. Both are located at the southwest corner of the plaza, just south and east of the mound (Rodning 2004:111). A similar ditch feature, which was associated with Woodland-period Napier-series pottery, was excavated at the Cullowhee Valley School site in western North Carolina (Rodning 2004:353). A similar feature also was found at the Townsend site in eastern Tennessee (Brett Riggs, personal communication 2004), where it has been interpreted as a Woodland mortuary structure. It was clear in the Townsend case that a series of superimposed features had formed a continuous, circular pattern similar to the one in Structure 18 at Town Creek. The repetitive placement of burials and other features in a circumscribed area delineated by an enclosure is consistent with Structure 18 having been used for mortuary ritual, an important part of Woodland period societies at various times and places in the Southeast (Steponaitis 1986:379)

Although Burial Cluster 40 partially superimposes it, Structure 18 was largely not superimposed to the same degree as other structures located around the plaza, even though it is the oldest identified structure at Town Creek. Based on this, it seems likely that its location was marked in some way, possibly by a low earthen mound.² In southeastern North Carolina, just to the east of Town Creek in the Sandhills region and southern Coastal Plain, a sand burial-mound tradition marks the Late Woodland period (A.D. 800-1000) (Irwin et al. 1999:79; Ward and Davis 1999:206-210). Most of these burial mounds are circular with a

diameter between 25 and 50 ft (Ward and Davis 1999:206). Structure 18 is 36 ft in diameter which fits comfortably within this range. There is a wide variation in the number of people interred in these mounds, from 10 to 300, and in the types of interments represented (e.g., primary and secondary) (Irwin et al. 1999:61; Ward and Davis 1999:207). The seven burials in Structure 18, all in a flexed position, approximate this range of variation. Additionally, stone pipes are frequently found with burials in these sand mounds (Irwin et al. 1999:73-78). Two stone pipes were found with Burial 135/Mg3 in Structure 18. One of these is a straight, stone smoking tube. The other is a winged, bent-tube pipe with incised geometric designs (Figure 3.60) that is similar to a pipe from the McLean mound (Irwin et al. 1999:Figure 11), a Late Woodland sand burial mound located near the Cape Fear River in Cumberland County (Ward and Davis 1999:207). The one radiocarbon sample from McLean produced a date of A.D. 970 \pm 110 (Irwin et al. 1999:62).

In summary, the Late Woodland community at Town Creek appears to have consisted of a single, circular structure that may have been used for mortuary rituals. For several reasons, it is possible that this building was covered with a low mound that was standing when the initial Mississippian community was founded and that it was incorporated into the spatial structure of this community. The sand burial mounds of the Coastal Plain were located away from habitation sites (Ward and Davis 1999:207) and are seen as vacant ritual centers that served dispersed populations (Irwin et al. 1999:80). The ubiquity of Woodland pottery at Town Creek but the dearth of Woodland features is consistent with the site having served initially as a vacant ritual center.

TEAL-PHASE OCCUPATION (CA. A.D. 1000 TO 1150)

There are several indications that Town Creek was occupied during the Teal phase, but the evidence is not definitive. First, ceramics diagnostic of the Teal phase (e.g., fine cordmarked and top-thickened rims) are present, although in relatively small numbers. Only 25 fine cordmarked sherds were identified among the 27,704 Pee Dee sherds analyzed for this research from Town Creek. Second, a date of A.D. 1010 \pm 40 (cal. A.D. 1033-1153)—which spans the Teal and early Town Creek phases—is associated with a feature within Structure 5a, a Small Circular Structure that was beneath the mound. Third, there are several architectural elements (e.g., Structure 29 and Palisade Group 1) that appear to date to the early end of Town Creek's Mississippian occupation but that do not fit within the spatial plan of the early Town Creek-phase occupation, suggesting that they predate this occupation (Figure 4.1). Based on this evidence, it is possible that a small-scale, intermittent, or as yet largely unexcavated occupation of Town Creek took place during the Teal phase.

EARLY TOWN CREEK-PHASE OCCUPATION (CA. A.D. 1150 TO 1250)

The earliest identifiable, intensive occupation of Town Creek occurred during the early Town Creek phase. This occupation consists of a ring of at least 10 Small Circular Structures surrounding the plaza (Figure 4.2). It is likely that these buildings were dwellings. The clustering of burials and postholes associated with Small Circular Structures suggests that these buildings were moved only slightly or were rebuilt in the same place during the early Town Creek phase. A gap in the western part of this ring of Small Circular Structures contains at least five superimposed rectilinear structures that were public buildings. The shifting and rebuilding of public structures contrasts with the fact that many Small Circular

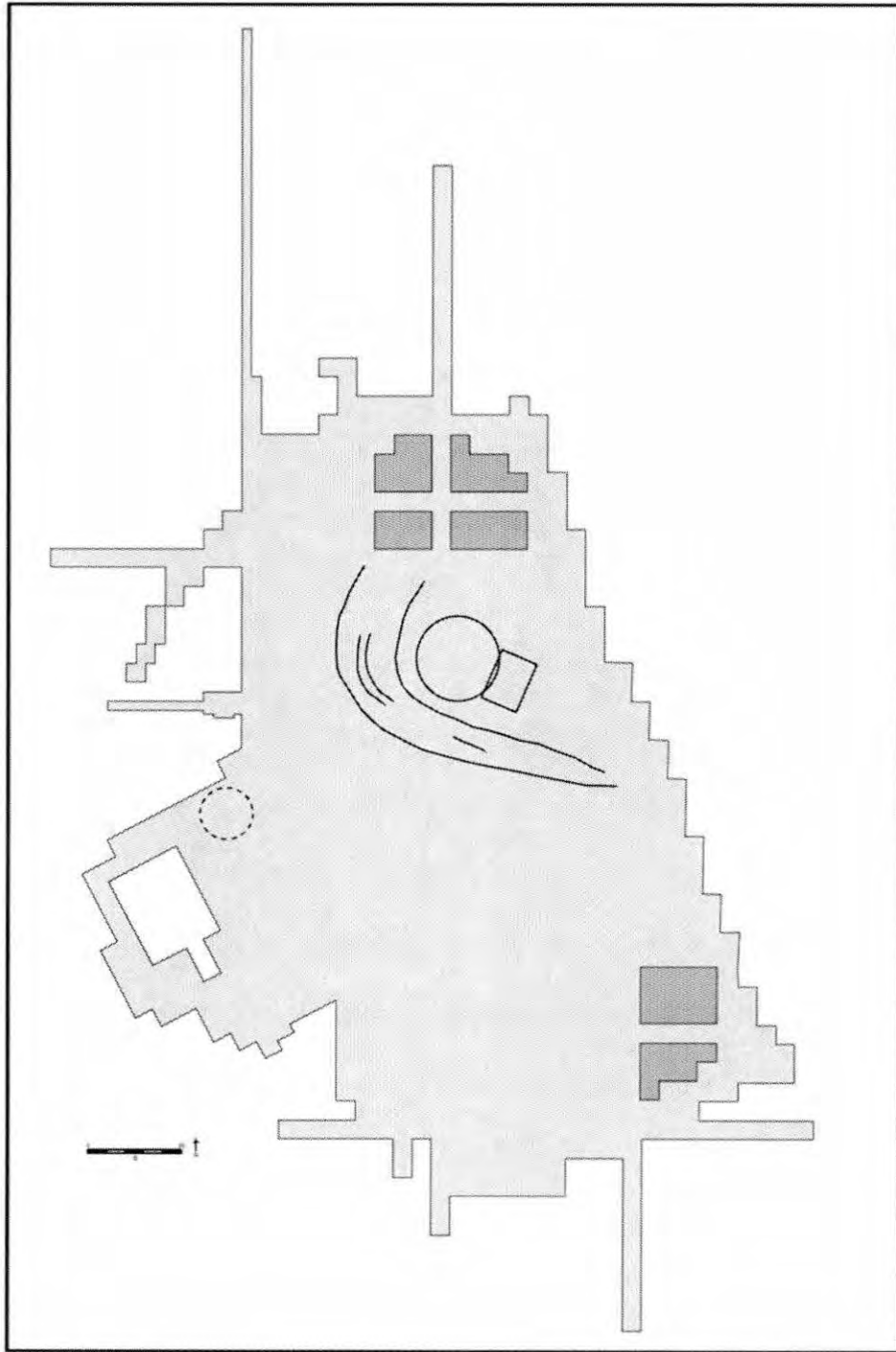


Figure 4.1. Schematic map of possible Teal-phase architectural elements (Note: dashed line indicates structure that may date to this occupation).

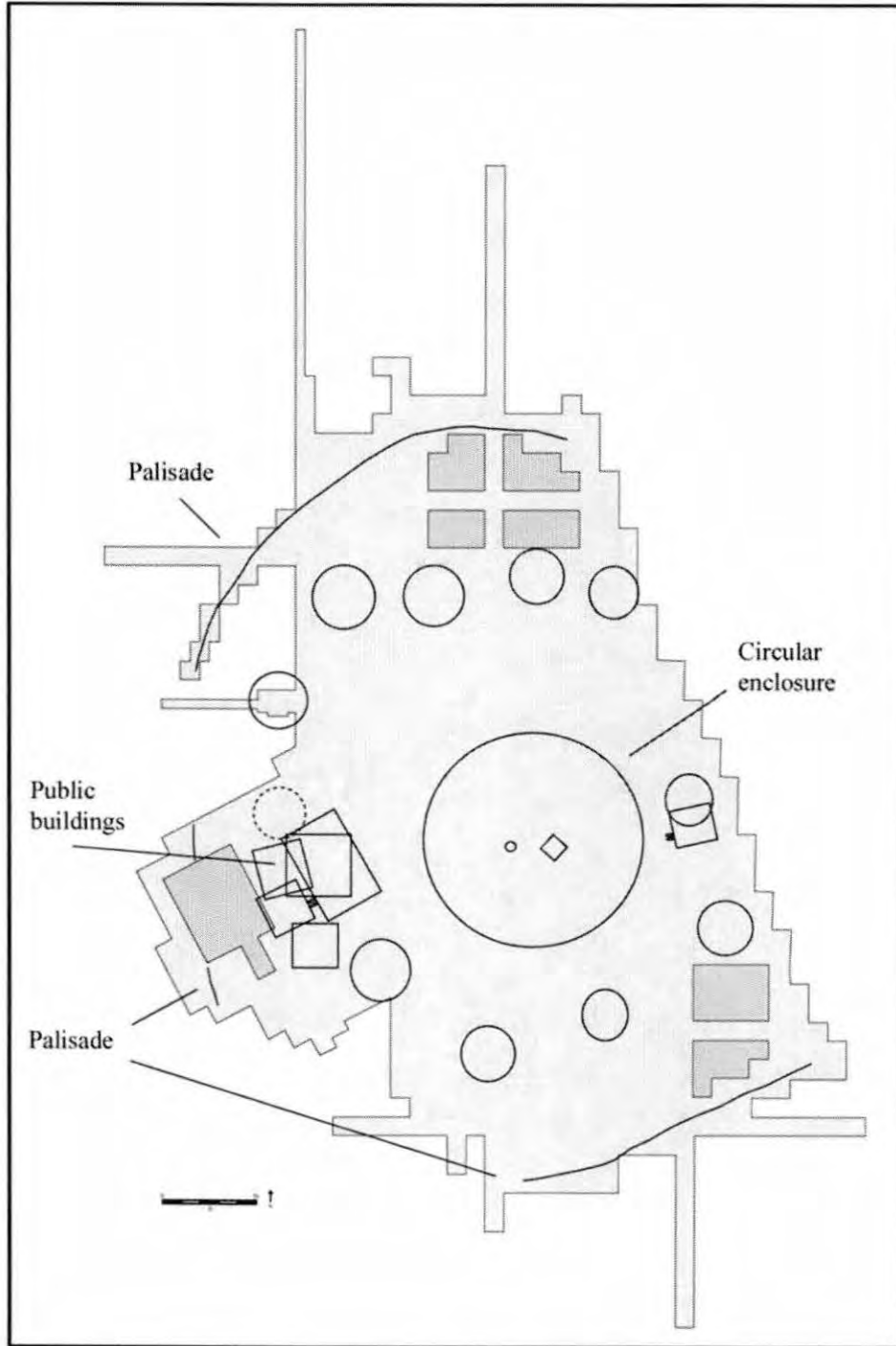


Figure 4.2. Schematic map of the early Town Creek-phase occupation (Note: dashed line indicates structure that may date to this occupation).

Structures were rebuilt in place. Structures 4a and 24 were the first public buildings (Figure 4.3). These were followed by the earth-embanked Structure 4b which was likely paired with a large, rectangular structure to its east. The paired Structures 23a and 23c—an earth-embanked structure and a large, rectangular building that was more ephemeral in construction—were last. It is possible that Structure 22—an earth-embanked building located across the plaza—was in use at the same time as Structure 23a. The two are identical in construction, approximately the same size, and oriented the same. If they were in use at the same time, the two earth-embanked buildings would have faced each other across the plaza with the large, circular enclosure being between them (Figure 4.4).

The most obvious architectural distinction during the early Town Creek-phase occupation is between circular and rectilinear structures. There are several reasons to believe that the rectilinear structures were public in nature. First, the facts that the circular structures are the most numerous and widely distributed suggests that they were dwellings. In contrast, the location of the rectilinear structures in only two parts of the site, locations that later in time would be covered by a platform mound and delineated by an enclosure, is consistent with their having been public buildings. Second, the relatively frequent rebuilding of rectilinear structures on the west side of the plaza and their reconfiguration through time are qualities shared with public buildings at other Mississippian sites (Blitz 1993a:82; Kelly 1990; Knight 1985:113-114; Pauketat 1992:37). Third, the idea that circular and rectilinear structures probably functioned differently during the early Town Creek-phase occupation is supported by a significant difference in burial density between the two (Figure 4.5). A histogram of burial density in structures shows a break in the distribution at 1 burial per 100 ft² (Figure 4.6). Structures with burial densities less than this are all rectilinear and located in

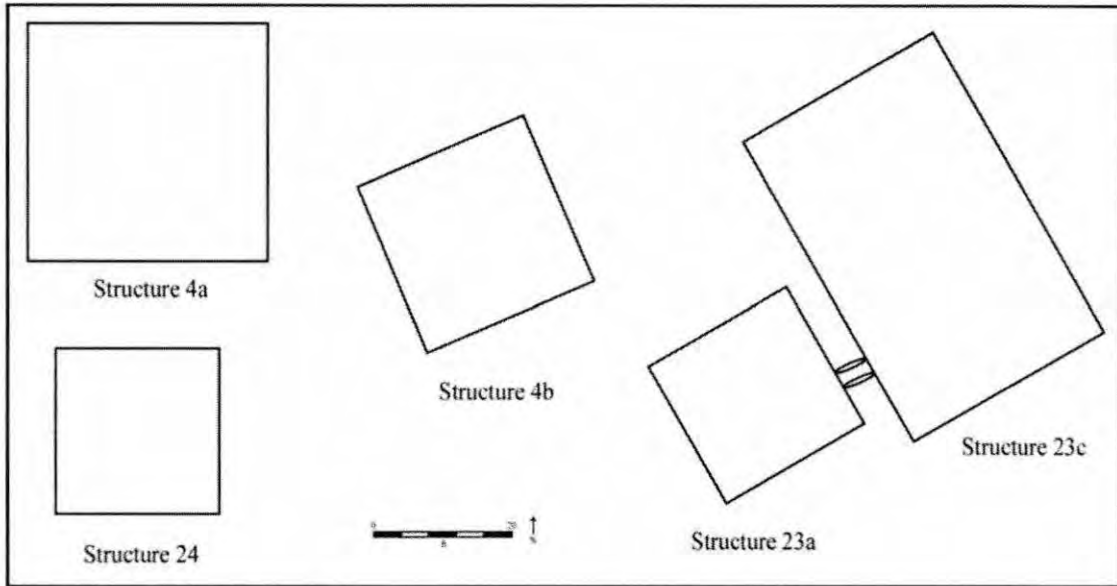


Figure 4.3. Schematic drawings of submound public buildings.

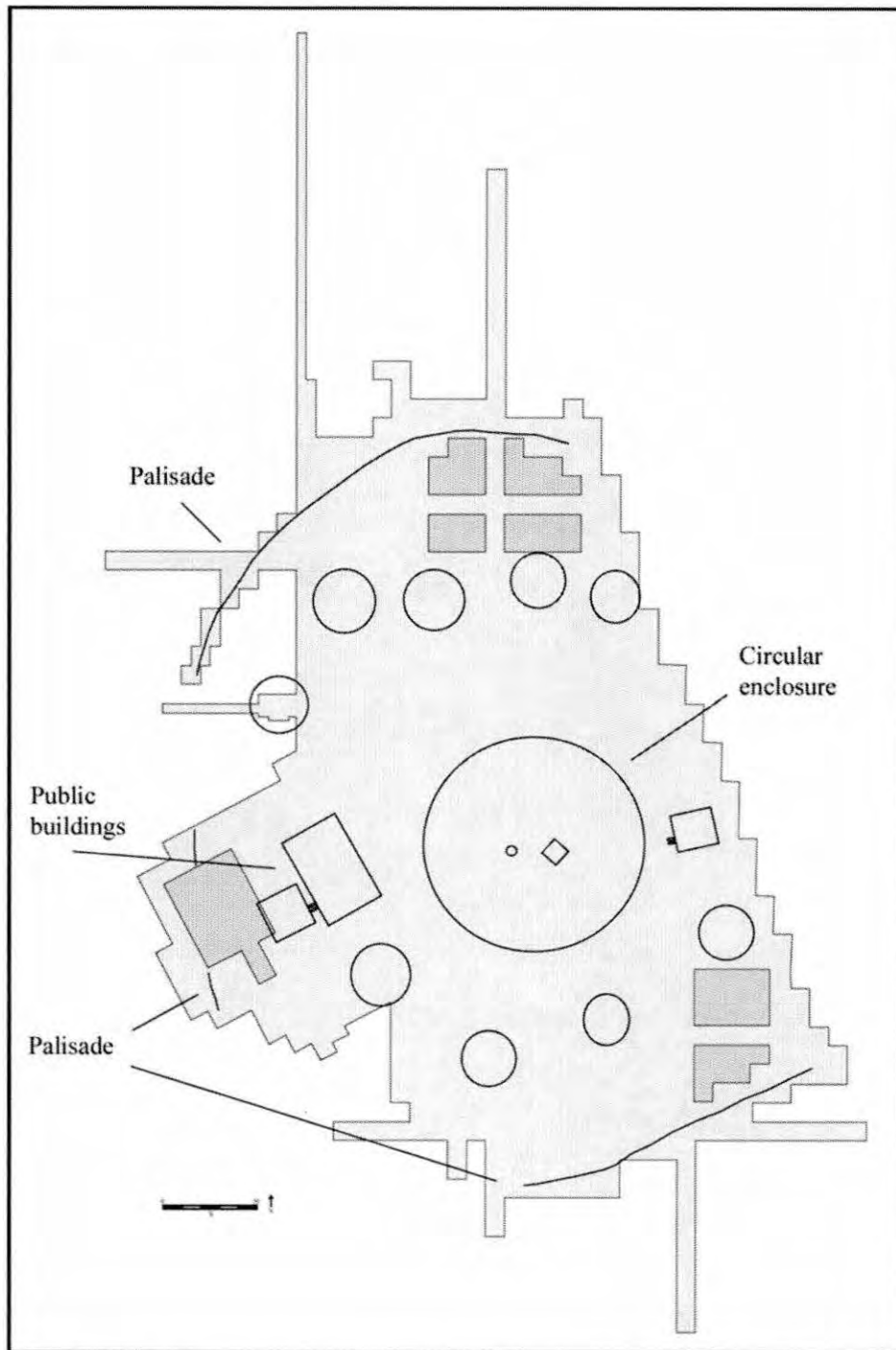


Figure 4.4. Schematic map of the terminal early Town Creek-phase occupation.

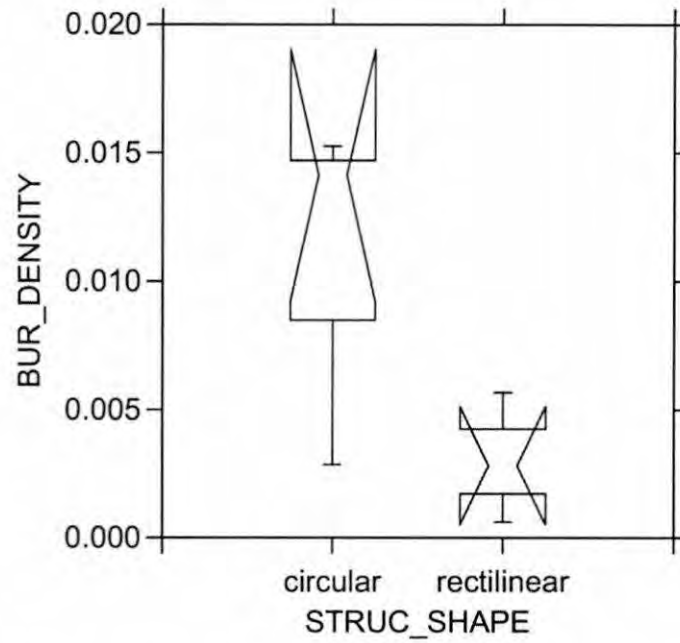


Figure 4.5. Boxplot comparing burial density (count/100 ft²) between early Town Creek-phase circular and rectilinear structures.

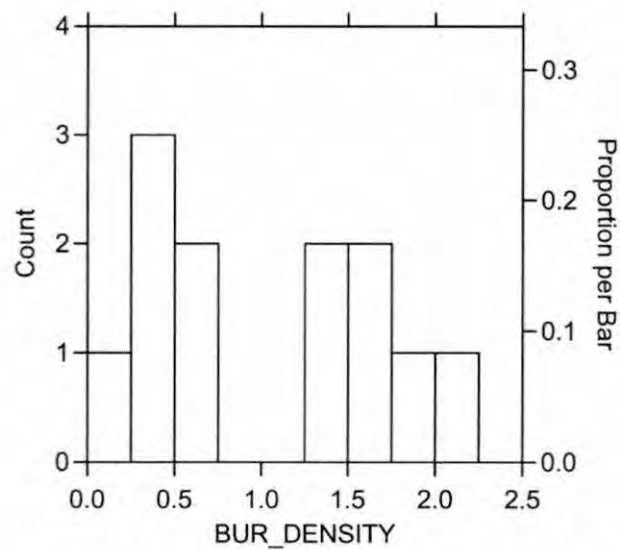


Figure 4.6. Histogram of burial density (count/100 ft²) in early Town Creek-phase structures.

submound contexts while those with densities greater than this are all Small Circular Structures found across the rest of the site. The fact that posthole densities, used as a proxy measure of duration of structure use, are significantly higher for rectilinear structures during this occupation³ (Figure 4.7) indicates that the differences in burial density are not the result of rectilinear structures being used for a shorter amount of time than circular ones. Instead, the lower burial densities for rectilinear structures suggests that different sets of criteria determined who could be buried within each type of structure, with those criteria used for circular structures being more inclusive than those used for rectilinear ones. Fourth, two of the rectilinear structures are distinguished by their large size, a common characteristic of Mississippian public buildings (Blitz 1993a:84; Hally 1994:241; Hally and Kelly 1998:54; Holley 1999:30; Polhemus 1990:131; Rudolph 1984:33; Ryba 1997:44; Schnell et al. 1981:137; Schroedl 1998; Sullivan 1995). A histogram of structure area for early Town Creek-phase structures shows a break in the distribution at 1000 ft² (Figure 4.8). The two structures that are larger than this are submound, rectilinear structures 4a and 23c. Both of these were sufficiently distinct to prevent me from assigning either of them to a structure type (see Chapter 3). Fifth, while three of the other rectilinear structures—Structures 4b, 22, and 23a—are within the same size range as circular, domestic structures, these rectilinear structures are distinct among early Town Creek-phase buildings because they had earth-embanked walls and at least two of them had entrance trenches. Earth-embanking is a common feature of public buildings in the South Appalachian Mississippian area (Hally 1994:154). Sixth, there are clear relationships among all of the rectilinear structures. Structure 22 faces Structure 23a across the plaza. Structures 23a and 23c were joined by an entrance trench. Although the exact spatial and chronological relationships are unclear,

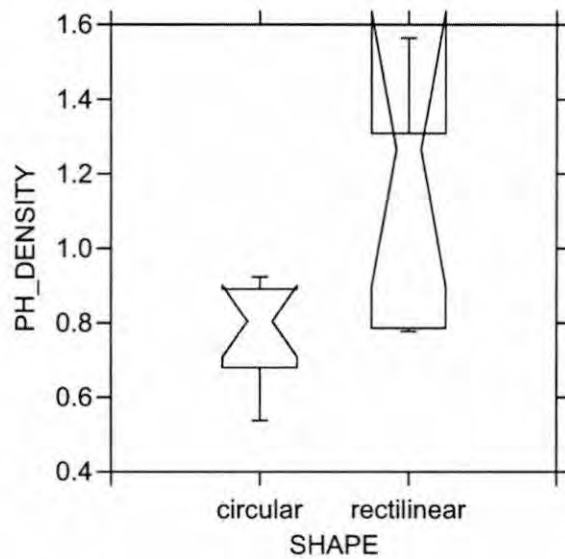


Figure 4.7. Boxplot comparing posthole density (count/perimeter) between excavated circular and rectilinear early Town Creek-phase structures.

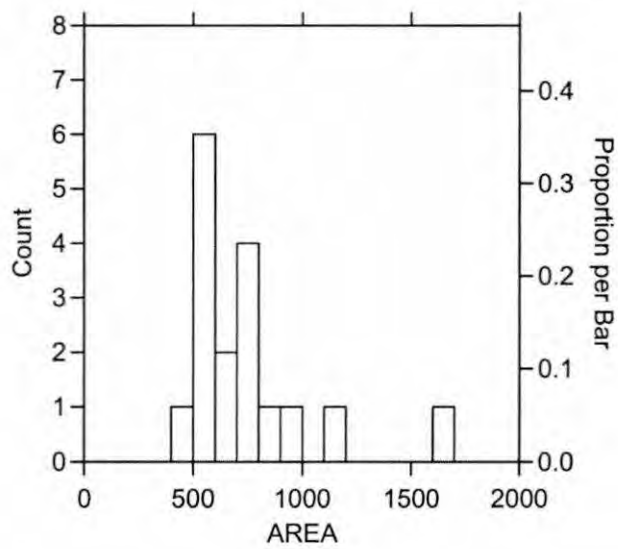


Figure 4.8. Histogram of early Town Creek-phase structures by area (ft²).

internal features of Structures 4a and 4b suggest that these structures were built in reference to each other. Also, Structure 24 is located close to and oriented the same as Structure 4b. The existence of paired structures—clearly the case with Structures 23a and 23c, possibly so with Structure 4a, and probably so with Structures 4b and 24—is a common element of Mississippian public architecture (Blitz 1993a:70; Hally 1994:241; Polhemus 1990:131; Rudolph 1984:33; Schroedl 1998:70).

The plaza was mostly open during the early Town Creek-phase occupation, but it did contain a very large monument consisting of individual posts arranged in a circular pattern. One or more large posts were in use within the western part of the circle's interior, as indicated by deep postholes with rocks in their fill. It is possible that a series of small buildings was located in the eastern part of the interior. The entire town was surrounded by a palisade that was rebuilt several times during the early Town Creek phase.

LATE TOWN CREEK AND LEAK PHASE OCCUPATIONS (A.D. 1250 TO 1350)⁴

The late Town Creek phase was marked by the presence of a platform mound on the western edge of the plaza, over the area that had been occupied by public buildings during the early Town Creek phase (Figure 4.9). Public buildings probably stood on the summit of the first construction stage, but excavations did not extend down to this surface. Based on the public buildings that were excavated immediately above and below and the configuration of mound summit buildings at other South Appalachian Mississippian sites (Hally 1994:157; Polhemus 1987:1213-1214, 1990:131; Smith 1994:38 and Figure 14), one can speculate that the late Town Creek-phase public buildings on the mound consisted of a large, ephemeral, rectangular building on the eastern side, closest to the plaza, and one or more small, square,

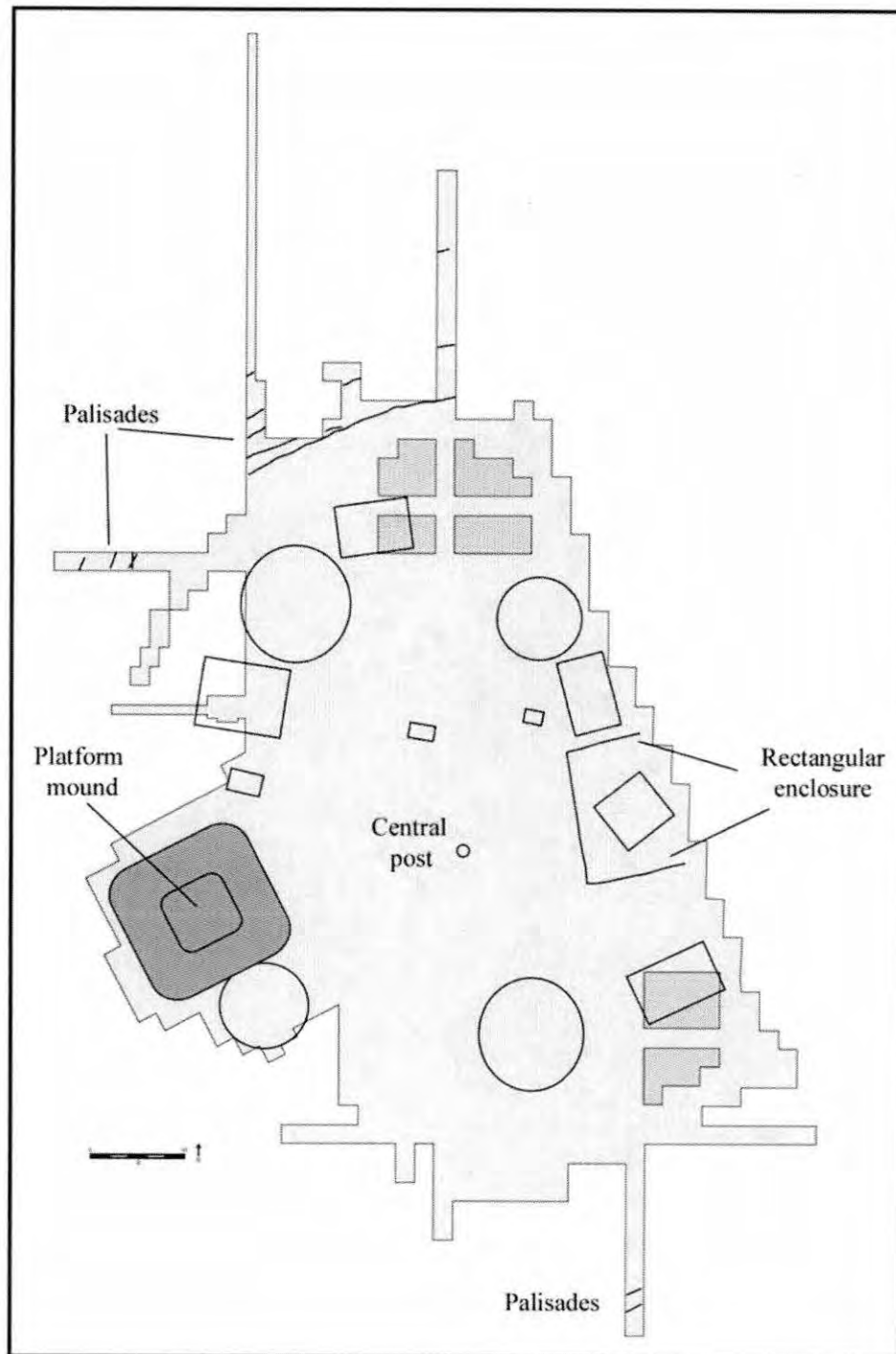


Figure 4.9. Schematic map of the late Town Creek-Leak-phase occupation.

earth-embanked buildings connected by entrance trenches on the western side, away from the plaza.

Public architecture during the early Leak phase included the addition of construction stages to the platform mound. Unlike the large construction stage of the late Town Creek phase, though, the layers added to the mound during the early Leak phase were much smaller. Portions of buildings were identified on the summits of the two mound-construction stages attributed to the early Leak phase. Unfortunately, most of these two surfaces had been destroyed when the eastern part of the mound was excavated by relic collectors. The buildings that remained were located on the western edge of the mound summit, on the side of the mound away from the plaza. The architecture that was preserved consisted of two rectilinear buildings joined by an entrance trench, suggesting that they were earth-embanked, on each construction stage. The location of these buildings on a mound summit as well as the fact that they were paired and probably earth-embanked are all attributes consistent with them having been public structures (Hally 1994:154). Although there is no way to know what the building on the plaza side of the mound was like, information from other mound sites (Hally 1994:157; Polhemus 1987:1213-1214, 1990:131; Smith 1994:38 and Figure 14) as well as the configuration of submound public buildings can be used to offer an informed speculation. It is plausible that the public buildings on the mound consisted of a large, ephemeral, rectangular building on the eastern side closest to the plaza and two or more small, square, earth-embanked buildings on the western side away from the plaza.

Enclosure 1 was built on the eastern side of the site at some point during the late Town Creek-Leak-phase occupation. The fact that this area may have been delineated by burials aligned with features of submound public buildings indicates that a plan existed early

in the site's history for incorporating the eastern edge of the plaza as a public area into the overall site structure. Although it is not clear if Structure 22 and Enclosure 1 were in use at the same time, the facts that they are located close to each other and have the same orientation indicate that they were related, even if only as diachronic forms of public architecture in the same area. Structure 51 was located within the space delineated by Enclosure 1. Structure 51 is unique because it has a very different orientation than all contemporaneous structures. The distinctive nature of Structure 51, its location within an enclosure and the uniqueness of its orientation, is consistent with it having been a public building. Burial clusters 11 and 13 were also located within Enclosure 1. Although the activities that took place within Enclosure 1 are unknown, it is clear that this area, presumably including some or all of the burials and structures that it contained, was set apart from the rest of the site.

The presence of the rectangular enclosure next to the river during the Leak phase means that the circular enclosure in the plaza could not have been standing at this time since the two overlap. While there is not direct evidence that the large posts near the center of the plaza were in use during the late Town Creek-Leak phases, they may date to this period because their erection may have been related to episodes of mound construction (David Hally, personal communication 2003). The three Small Rectangular Structures aligned across the north side of the plaza may date to the late Town Creek-Leak-phase occupation, although they could date to a later time. It seems likely that some of the outer palisade lines were also in use during this time, but there is no direct evidence for this.

It is hard to identify clearly domestic architecture during the late Town Creek-Leak phases. A histogram of all structures by area from this occupation can be divided into three

groups (Figure 4.10). The first of these, structures less than 500 ft², consists of the three Small Rectangular Structures and the innermost circular pattern of Enclosed Circular Structure 10. I believe that the inclusion of Structure 10 here is an anomaly, perhaps because it was not excavated and is therefore poorly defined. The fact that the Small Rectangular Structures are all approximately the same size, oriented the same way, and located in a line along the north side of the plaza strongly suggests that they were contemporary and served a similar function, although it is unclear exactly what that function was. South identified one of these buildings and it was interpreted as a shed analogous to structures used by historic Creeks during community rituals (Coe 1995:96). Whatever they were used for, there are several reasons to believe that Small Rectangular Structures were not dwellings. First, they are not like other structures at Town Creek that have been identified as houses. They are significantly smaller than Small Circular Structures and they contain few or no burials. Also, Small Rectangular Structures appear to have been more ephemeral than Small Circular Structures. One pair of opposing walls in each Small Rectangular structure consists of clearly defined postholes, but the other two walls do not. Second, the location of Small Rectangular Structures within the plaza and away from the zone of superimposed structures on the plaza's periphery indicates that Small Rectangular Structures may have been related more to plaza activities than to domestic ones.

The second group in the histogram consists of structures with areas between 500 and 1500 ft². These include nearly all Large Rectangular Structures and the innermost pattern in almost all Enclosed Circular Structures, whose exterior patterns constitute most of the third group of structures in the histogram (>1500 ft²). It is unclear what is represented by Enclosed Circular Structures. The two most plausible possibilities are that they represent

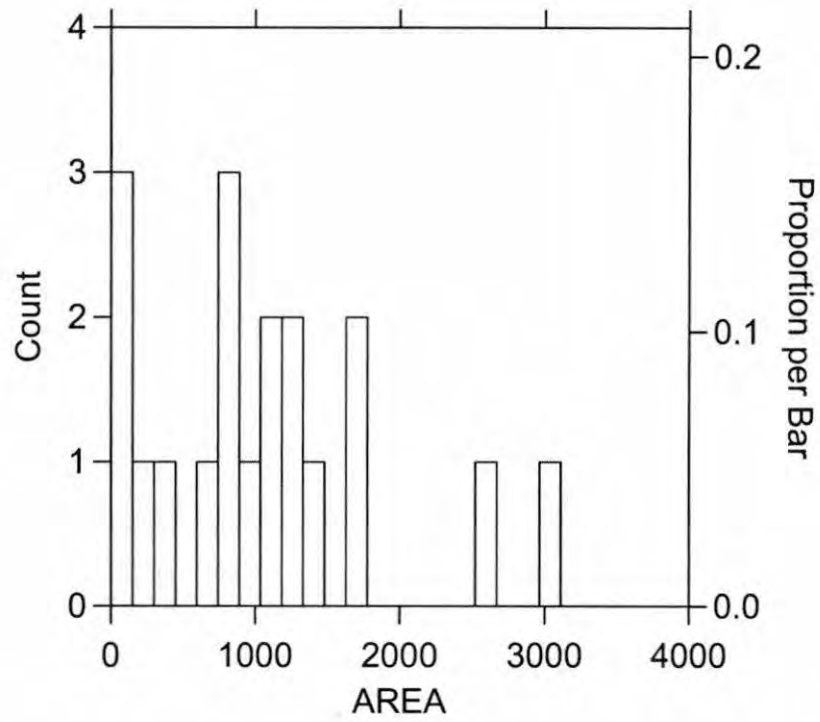


Figure 4.10. Histogram of all late Town Creek-Leak-phase structures by area (ft²).

a contemporaneous structure and enclosure or that the pattern is a palimpsest of an earlier structure and a later enclosure. Each possibility has different implications for interpreting the late Town Creek-Leak-phase occupations at Town Creek. If Enclosed Circular Structures represent a contemporaneous structure and enclosure, I would assume that the structure was domestic based on its size and the fact that I have identified as houses identical structures (i.e., Small Circular) during the early Town Creek phase. Obviously, though, Enclosed Circular Structures cannot be viewed simply as typical houses because the presence of an enclosure signals that these were special in some way, possibly as public buildings or the residences of important people within the community (Blitz 1993a:84; DePratter 1983:118; Holley 1999:29; Larson 1971:59; Payne 1994:223).

If the enclosures and structures date to different periods, I think that a plausible interpretation of Enclosed Circular Structures is that they represent an area recognized as a former house site that was delineated by an enclosure and used as a cemetery after the house itself was no longer in use. I suspect that Enclosed Circular Structures began as Small Circular Structures occupied during the early Town Creek and possibly initial late Town Creek phases but that were enclosed and used as cemeteries at some point during the latter phase. There are two cases in the eastern part of the site where structures of the Small Circular type overlap with Enclosed Circular Structures (Structures 15a and 15b, Structures 10 and 49), indicating that they could not have been standing at the same time. In both cases of overlap, one of the overlapping structures is the interior circular pattern of an Enclosed Circular structure (Structures 10 and 15b). It is clear that these overlapping circular structures could not have been in use at the same time. I assume that the Small Circular Structure was occupied first, during the early Town Creek phase, but that at some point this

structure was abandoned or moved slightly and the structure that formed the center of the Enclosed Circular Structure was occupied next. This assumption is based on the fact that the Small Circular Structures were clearly present during the early Town Creek phase and that several lines of evidence show Small Circular Structures to be the oldest Mississippian buildings at Town Creek (see Chapter 3).

The presence of late burials within Enclosed Circular Structures provides direct evidence that they were used as cemeteries in the later stages of their existence. While there is no direct evidence that these structures were also nondomestic at this time, to have a building set apart by an enclosure is a distinctive treatment within the Mississippian world (Blitz 1993a:84; DePratter 1983:118; Holley 1999:29; Larson 1971:59; Payne 1994:223) and it seems unlikely that at least four families living in the same relatively small community would have been so special.

The third group in the histogram of late Town Creek-Leak-phase structures consists of those larger than 1000 ft². This group consists solely of Large Rectangular Structures. The fact that these buildings are in a size class by themselves suggests that they were not domestic in nature. Also, they are comparable in size to Structures 23c and 4a, which are clearly examples of preeminent public architecture from the early Town Creek phase. Further support for the idea that Large Rectangular Structures were public buildings is that their rectilinear shape and low burial density is similar to other structures interpreted as public buildings at Town Creek.

A histogram of late Town Creek-Leak-phase structures by burial density shows a gap in the distribution at 1 burial/100 ft² (Figure 4.11), the same distinction that was noted with early Town Creek-phase structures. During the late Town Creek-Leak phases, all structures

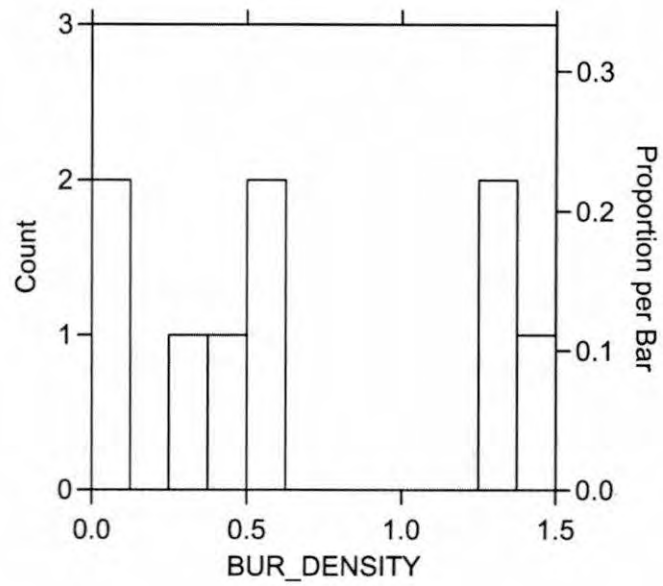


Figure 4.11. Histogram of late Town Creek-Leak-phase structures by burial density (count/100 ft²).

with densities less than 1 burial per 100 ft² were rectilinear. Some of these were located on the mound and within the area delineated by Enclosure 1. The others were Large Rectangular Structures which largely alternate with Enclosed Circular Structures around the plaza. Structures with a burial density greater than 1 burial per 100 ft² include Enclosed Circular Structures and a single Small Rectangular Structure.

There is an apparent absence of domestic architecture during the late Town Creek-Leak phases at Town Creek, at least in the exposed parts of the site adjacent to the plaza. During this time, the earlier houses that had surrounded the plaza were replaced by cemeteries and large, rectangular buildings. The cemeteries seem to have started as domestic structures during the early Town Creek phase that were later enclosed by a circular wall of wooden posts. The primary structure type in use at the same time as these enclosed cemeteries was a large, rectangular structure with a relatively low density of interior burials. It is likely that these enclosed cemeteries and large, rectangular buildings date to the same period because they both contain late Town Creek-Leak-phase diagnostics, they have comparable ratios of plain to decorated rims, and they have a complementary spatial distribution.

At this time, one can only speculate about the functions of Enclosed Circular and Large Rectangular Structures. It seems plausible that Enclosed Circular Structures began as houses—in the floors of which burials were placed—occupied by a family group. These house sites were later maintained by these groups—which may have been lineages or clans—as places where members could continue to be buried, even though people were no longer living there. Although the pattern is by no means clear, it may have been the case that Enclosed Circular and Large Rectangular Structures alternated around the plaza during the

late Town Creek-Leak phases and that one of each structure type together constituted a pair of structures that was itself a functional unit. One structure in this pair appears to have served as a cemetery in which most group members were buried while the other structure served as a place for the entire group to meet and as a place where a select portion of the group could be buried.

If it was the case at Town Creek that during the late Town Creek-Leak phase-occupation there was a pattern in which clan houses and cemeteries alternated around the site, where does that leave us with an interpretation of the mound and the rectangular enclosure directly across the plaza? The mound may have been analogous to Large Rectangular Structures in that it served as a focal point for the group and as a place in which a subset of the group could be buried. Unlike Large Rectangular Structures, though, the mound would have served as a focal point for the entire community. This could have been the case even if leaders were consistently drawn from a single clan or lineage and the mound as well as Enclosure 1 were associated with a particular corporate group (see Blitz 1993a:12; Knight 1990:17) because these people still would have been perceived as community leaders. Within such a scenario, the rectangular enclosure, including the square structure and burial clusters that it contained, would have been analogous to the enclosed cemeteries of the village. The possible relationship at Town Creek between the mound and the rectangular enclosure, where the former may have served as a public building while the latter may have been primarily mortuary in purpose, is one that has been proposed for public architecture at several other Mississippian sites (Blitz 1993:96; Knight 1998:52; Schnell et al. 1981:Figures 2.3 and 2.6).

LATE LEAK-PHASE OCCUPATION (CA. A.D. 1350 TO CA. 1450)

The presence of late rim treatments in the top layers of the mound indicates that it was used during the late Leak phase. While the upper mound contexts were disturbed and no summit architecture could be identified, one can assume that a building was located on the mound summit during the late Leak phase. Based on the depth of the layers that were preserved, mound construction was minimal during this time and did not add significantly to the mound's volume. There is no direct evidence for the existence of plaza architecture or a palisade surrounding the site during the late Leak-phase occupation, although there is no direct evidence that these features did not exist.

At least three Medium Rectangular Structures date to this occupation, one along the north side of the plaza and two along the south side (Figure 4.12). Two of these structures are aligned along a northeast-southwest axis on the south side of the plaza while a third is across the plaza along a northwest-southeast axis. It seems likely that there are more structures located along these axes that are either unexposed or exposed but undefined at this time. A possible Medium Rectangular Structure on the northeastern side of the plaza may represent a fourth building that dates to this occupation.

The site structure that existed during the late Leak-phase occupation was distinctive in some ways. The corners of Medium Rectangular Structures are oriented to the cardinal directions which is unique among rectilinear structures. This orientation clearly deviates from the orientation of the mound, which still would have been the most prominent feature at the site. Also, the apparent arrangement of Medium Rectangular Structures into southwest-northeast trending rows would have reorganized the plaza and reoriented the spatial structure of the entire site.

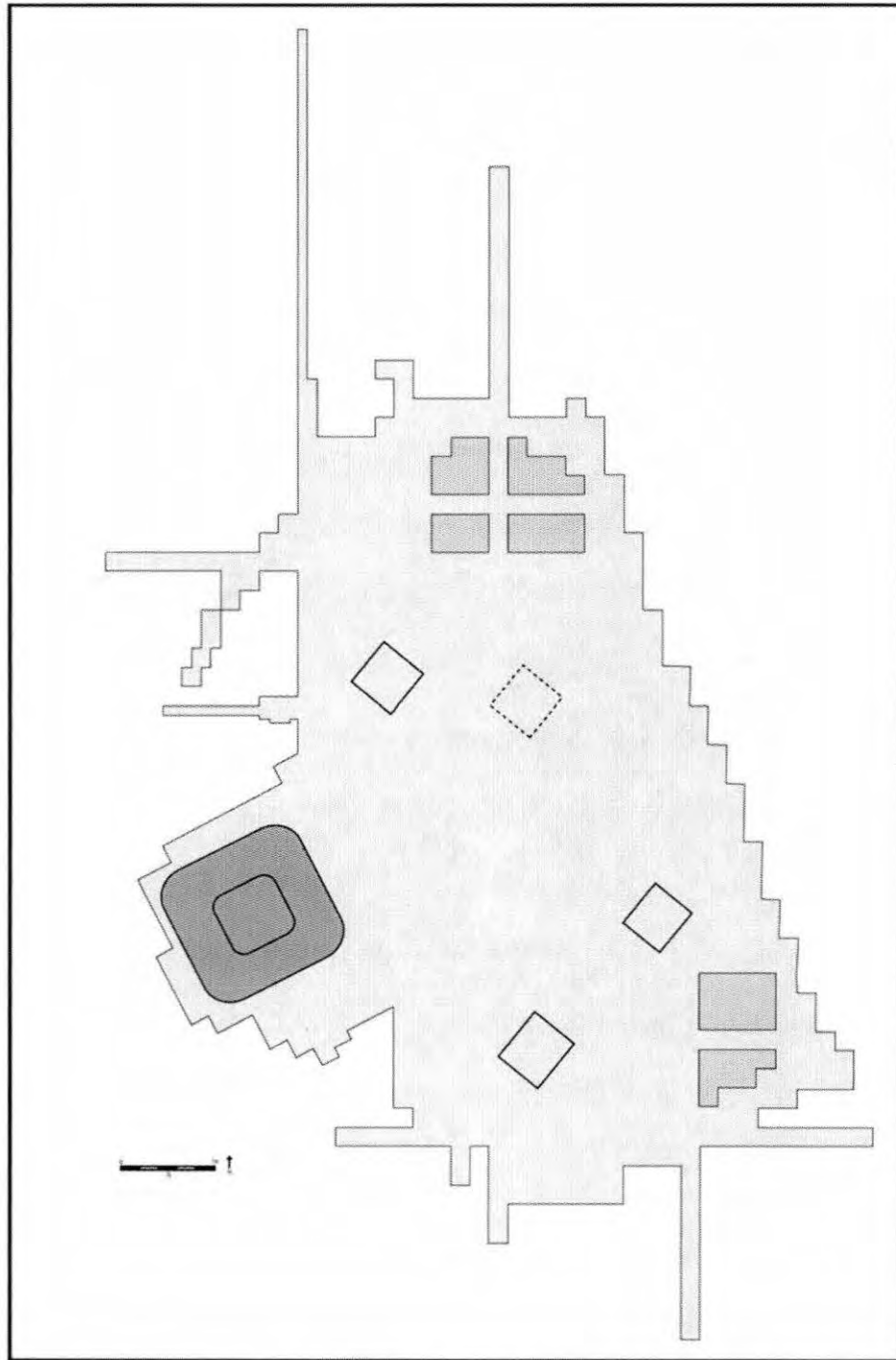


Figure 4.12. Schematic map of the late Leak-phase occupation (Note: dashed line indicates possible structure).

The site structure of the late Leak-phase occupation also shows continuity with earlier occupations. As was the case throughout the Town Creek phase, the plaza was maintained during the late Leak phase with structures being placed along its periphery. Also, at least two earlier or partially contemporaneous structures had their corners oriented to the cardinal directions. Structure 51 is oriented this way. The enclosure associated with Structure 7 is somewhat rectilinear with its corners oriented to the cardinal directions. Furthermore, it is oriented the same as and adjoins with Structure 28, a Medium Rectangular Structure in the Northwestern Area, suggesting that their use coincided or that the construction of the latter at least acknowledged the location of the former.

CARAWAY-PHASE OCCUPATION (CA. A.D. 1550 TO 1700)

Little can be said about the Protohistoric occupation of Town Creek. The presence of glass beads in the upper layers of the mound indicates that it was used during the Caraway phase (A.D. 1500-1700), the Protohistoric phase for the southern Piedmont which shows a great deal of affinity with Lamar phases to the south and west (Hally 1994; Ward and Davis 1999:134-137). The mound layers attributable to this occupation were disturbed, so Protohistoric activities and architecture could not be identified. Away from the mound, two Protohistoric cemeteries were located in the southeastern part of the site near the Little River (Figure 4.13). One of the Protohistoric burials contained a circular brass gorget with a small central hole, a type that postdates A.D. 1630 (Waselkov 1989:123).

Over 3000 glass beads were recovered at Town Creek and the dates of these beads span the time from A.D. 1500 to 1800 (Deagan 1987:Table 4). Almost 90 percent of the beads from Town Creek came from the Mg2 area with nearly all of these coming from the

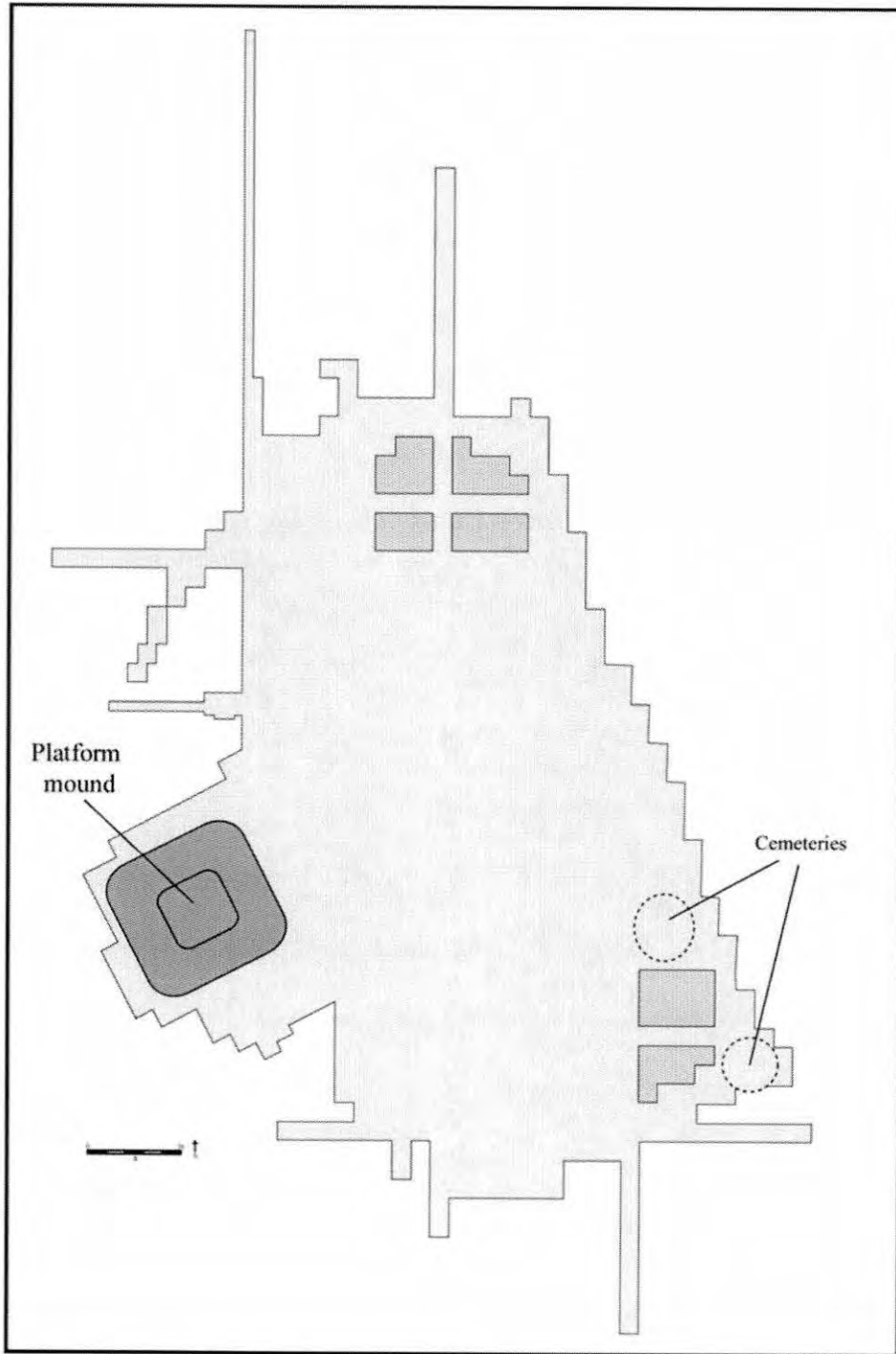


Figure 4.13. Schematic map of the Caraway-phase occupation.

upper layers of the mound (Table 4.1). The presence of these beads is important because it indicates that the mound summit continued to be used into the Contact period. Most of the types represented were used for hundreds of years, so they can tell us little about a more specific period of use. The one exception is an unfaçeted chevron bead from the mound, Kidd and Kidd (1970) type IVK4, which has a more specific date range of A.D. 1550 to 1650 (Deagan 1987:Table 4). The low number of glass beads away from the mound, which suggests that the beads were acquired prior to regular contact with Europeans (see Ward and Davis 1999:254), is consistent with the early seventeenth-century date suggested by the unfaçeted chevron bead. Two other Piedmont phases in which European goods are present but in low numbers are Jenrette (A.D. 1600-1680) and Middle Saratown (A.D. 1620-1670) (Ward and Davis 1999:237 and 247), both of which date to the seventeenth century. Also, the absence of wire-wound beads at Town Creek is consistent with the Caraway-phase occupation predating the late seventeenth or early eighteenth centuries (Brain 1979:115; Deagan 1987:175).

CONTINUITY IN SITE STRUCTURE AND PUBLIC ARCHITECTURE

Throughout the history of Town Creek, there is an overall continuity in the use of space that implies that the residents of the community were not only aware of preceding activities and constructions, but that they also acknowledged these earlier events. A large-scale example of this is the maintenance of the integrity of the plaza by the placement of buildings on its periphery. The plaza appears to have been used for nondomestic purposes throughout the history of the site and it contained only a few special-purpose structures. In contrast, the periphery of the plaza contained a palimpsest of structures from every stage of

Table 4.1. Glass beads.

Context	Bead Type														Total
	IIA7	IIA13	IIA14	IIA13/14	IIA27	IIA40	IIA41	IIA44	IIA55	IIA56	IIA57	IIA61	IIIB5	IVK4	
Mg2	-	3	69	2942	1	41	210	1	2	185	-	1	14	1	3470
Mg3															
Bu. 124a	-	-	80	-	-	-	101	-	-	2	-	-	-	-	183
Bu. 51	2	-	1	-	-	-	-	-	-	21	-	-	-	-	24
Bu. 52	-	-	-	6	-	-	12	-	-	1	-	-	-	-	19
Bu. 55	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
General	-	-	-	-	-	1	-	-	1	-	-	-	-	-	2
Sub-total	2	-	81	6	-	1	113	-	1	24	1	-	-	-	229
Total	2	3	150	2948	1	42	323	1	3	209	1	1	14	1	3699

the community's history. Thus, it was acknowledged throughout the occupation of the site that structures were to be built in a zone surrounding the plaza while the plaza itself was to remain open. Coe (1995:265) noted that even the post-Pee Dee people respected this tradition and placed their dead around the outer limits of the plaza. Another example of continuity is that the Late Woodland mortuary structure largely was not superimposed by later structures, even though it was built early in the site's history. It is possible that this structure was marked in some way, perhaps by being covered with a low mound. Not only was this structure not superimposed, but it also seems to have been incorporated into the site structure of the subsequent Mississippian community. The overall map of Town Creek shows this structure as one of many circular structures located along the plaza.

The Enclosed Circular Structure type provides another clear example of continuity, but this time within the framework of an overall functional change. These structures seem to have started as houses, but evolved at some point into enclosed cemeteries. Thus, there was continuity in the occupation of a space, which may have been associated with a particular kin group, while the way in which that space was used seems to have changed significantly. The changes in the orientation of buildings and the overall site structure that occurred later during the late Leak-phase occupation are striking within this overall pattern of continuity, although the maintenance of the plaza during this period and references to earlier structures represents some continuity.

Several points of continuity were present within Town Creek's public architecture as well. A public axis appears to have existed within the site structure of the community at Town Creek throughout the Mississippian period. This axis includes: (1) the western part of the site, which was always used for public architecture; (2) the plaza, which included a large

circular monument and massive central posts; and (3) the space defined by Enclosure 1, which included two burial clusters and at least two rectilinear structures. Another point of continuity within public architecture is that some of the buildings beneath and on the mound appear to have been laid out in reference to earlier public buildings. In the submound contexts, the two earth-embanked structures appear to have been aligned with features of buildings that they superimposed. On the mound summit, the structures located on superimposed mound-construction stages clearly have the same floor plan. Other points of continuity within the mound-related public buildings are the presence of paired public buildings during several periods in the site's history.

CONCLUSION

The analysis of architectural patterns, the distribution of diagnostic ceramics, and the ranges of radiocarbon dates from Town Creek all suggest that the site was occupied for hundreds of years during the late prehistoric and early historic periods. Intermittent occupation began in the tenth century during the Late Woodland period and may have continued through the middle of the twelfth century at the end of the Teal phase. Intensive occupation began around this time during the early Town Creek phase and continued for 200 to 300 years. The occupation of Town Creek became less visible and probably more episodic in nature during the fifteenth century, a pattern that continued through the seventeenth century.

The Mississippian occupation of Town Creek has been interpreted as the remains of an intrusive culture that occupied the Piedmont of North Carolina for a relatively short amount of time (Coe 1952:308, 1995:89-90; Oliver 1992:240). Continuity between the Late

Woodland and Mississippian occupations of Town Creek does not support the idea of an intrusive culture. Also, radiocarbon dates from submound contexts relate Town Creek to a growing body of evidence for the widespread presence of Early Mississippian culture—also represented at the Payne (Mountjoy 1989) and Teal (Oliver 1992) sites—in southern North Carolina. While the Mississippian culture represented at Town Creek is remarkably different from the small-scale societies documented to the north and east (Ward and Davis 1999), the ceramics and site structure of Town Creek are very similar to those documented to the south and west (Anderson 1989; Cable 2000; DePratter and Judge 1990; Hally 1994; Ward and Davis 1999). It seems plausible that Town Creek's existence can be accounted for through the adoption of Mississippian ways by a local Late Woodland group rather than the migration of people into the area.

Whether its development was the result of diffusion, migration, or a combination of the two processes, Town Creek was located on the northeastern edge of the Mississippian world. Earlier interpretations presented Town Creek as a briefly occupied frontier community that was surrounded by hostile neighbors. The occupational history presented in this chapter does not support this interpretation. During the late prehistoric period, Town Creek was occupied at least intermittently for about 700 years. The site was intensively occupied as a formal town with a consistent site structure for between 200 and 300 years beginning around A.D. 1150. Although located on the periphery of the Mississippian culture area, the community at Town Creek evolved and thrived for centuries, demonstrating a history whose development parallels and longevity rivals sites located nearer the core of the Mississippian world (see Anderson 1994:219; Cable 2000).

Endnotes to Chapter 4

1. Feature 58 was excavated and interpreted over the course of several years by David Phelps, Jack Wilson, and Gary Petherick. They recorded their observations on feature forms that are curated by the RLA.
2. My thinking on this matter has been influenced a great deal by discussions with Brett H. Riggs of the RLA.
3. Posthole densities were calculated by dividing the number of postholes comprising the walls of a structure by the structure's perimeter. GIS software was used to obtain both values. First, a polygon was drawn to approximate the outline of each structure. The perimeter of this polygon was used as the value for the structure's perimeter. Second, a 1-ft buffer (i.e., 1 ft on the interior and 1 ft on the exterior) was created around the polygon and the number of postholes within this buffer was used to calculate posthole density.
4. With the exception of the stratified deposits in the mound, the spatial distribution of diagnostic ceramic artifacts was such that I was unable to consistently segregate deposits from the early Leak phase. Therefore, the late Town Creek-phase and the early portion of the Leak-phase have been combined into a single occupation. Combining these two subphases into a single occupation is supported by the fact that doing so allowed the development of a relatively coherent site structure for this occupation.

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Chapter 5: Mortuary Analysis

In preceding chapters, spatial and temporal units have been defined within the archaeological record of Town Creek through the refinement of the area's ceramic chronology, the definition of structure types, and the development of an occupational history for the site. In this chapter, these spatial and temporal units are used to explore variation and change within the community at Town Creek through an analysis of mortuary patterns. This analysis is based on the assumption that differences in the treatment of individuals at death (e.g., location, associations, position) reflect distinctions that existed in life (see Binford 1971). While many aspects of social life are considered in this analysis, an emphasis is placed on recognizing the manifestation of leadership status. The demographic profiles of public buildings are used to see who may have been political leaders and how this may have changed through time. Leadership also is explored through the distribution of associated artifacts and the placement of burials in the community based on the assumption that distinctive social and political roles were marked by an association with atypical objects or locations. Since social and political statuses can be manifested in numerous ways in the mortuary record, additional burial attributes—such as position (e.g., flexed or extended) and type (e.g., primary, bundle, disarticulated)—also will be considered.

ROLES AND STATUSES IN THE MORTUARY RECORD OF TOWN CREEK

A great deal of variability exists at Town Creek in the ways individuals were treated at death. The dimensions on which this variability is expressed include the position of the body within the grave (e.g., flexed or extended), evidence for postmortem processing of the body (e.g., secondary bundle burial), the location of the burial (e.g., in public or domestic contexts), and the kinds and quantities of associated artifacts. My analysis and interpretations are based on the assumption that the spaces in which individuals were buried, the position in which they were placed, and the items that were interred with them reflect the statuses the individuals held in life and the social roles they played within their community (see Binford 1971:13-15). The ethnohistoric record of the Southeast supports the idea that an individual's social status had a great deal of influence on their treatment at death (Brown 1971:104-105). Ethnohistoric and ethnographic observations indicate that native Southeastern Indian communities contained individuals who fulfilled numerous social and political roles. These included various grades or types of warriors, priests, and community leaders (Hudson 1990:61-67; Lefler 1967:210; Scarry 1992; Swanton 1979:641-665; Waselkov and Braund 1995:118; Worth 1998:92). Based on cross-cultural studies (Binford 1971) and the documentary record from the Southeast in particular, I assume that social and political factors can explain much of the variation in the mortuary record at Town Creek. While the mortuary rituals of some societies actually obfuscate distinctions that existed in life, the consideration in this research of nonmortuary contexts from across the site should allow the recognition of any stark disjuncture between the daily expression of social and political differences and their manifestation in death (see Hodder 1982:152-153).

In this chapter, mortuary data are used to explore leadership roles and how they may have changed through time at Town Creek. Leadership is a status that is marked within many small-scale societies world-wide through the differential treatment of individuals at death (Feinman and Neitzel 1984:57; Flannery 1999; Marcus and Flannery 1996; Whalen and Minnis 2000:172). Artifact distributions can be useful in this regard. If objects signified particular statuses held in life, then burials of community leaders—as individuals who hold the most diverse number of roles in small-scale and middle-range societies—should contain a greater diversity (i.e., high richness) of associated objects (Howell 1995:129, 1996:63; Kintigh 2000:104). Therefore, one of the ways in which Town Creek burials are compared is the number of artifact types (NAT) included as grave goods¹ (see Bennett 1984:36). Also, the presence of artifacts that are distinctive within the context of a particular community (e.g., copper plates and axes, stone celts, the remains of litters, conch shells) have been recognized as symbols of particular leadership statuses in some Mississippian cases (Blitz 1993a:104; Brown 1971:101; Peebles and Kus 1977:439; Scarry 1992:179). Another way to recognize leaders is that they may be set apart physically from others, for example being buried in special places within the community such as public spaces (DePratter 1983:189; Sullivan 1995:117). Also, the remains of leaders may have been processed in distinctive ways. The ideas of special burial location and extra processing were combined in the practice among Mississippian groups of venerating past chiefs through the storage of their cleaned and bundled skeletal remains in mound-top temples (Brown 1997:475). Additionally, leaders may have been set apart by the arrangement of their body within the grave (e.g. orientation, seated vs. prone, extended vs. flexed, etc.) (Marcus and Flannery 1996:84-85) as well as by the form of the grave itself (Sullivan 1995:118-119).

The interpretations presented here are based on contrasting the individuals and artifacts associated with public buildings with those found in domestic structures. Public buildings in historic Southeastern native towns were architecturally, socially, and politically the most prominent buildings in the community. They were the loci of daily meetings concerning intracommunity and intercommunity decision-making (Braund 1999:144; Lefler 1967:42-43; Waselkov and Braund 1995:62 and 102; Worth 1998:93). They also often were the locations of important social events such as the entertaining and housing of significant guests and community-wide ceremonies (Lefler 1967:43-47; Waselkov and Braund 1995:85; Worth 1998:93). It is clear in the ethnohistoric and ethnographic record that there were social proscriptions regarding who could access public buildings. In some cases, access was always limited to a certain social group (Kenton 1927:427; McWilliams 1988:92; Sattler 1995:220; Waselkov and Braund 1995:102 and 149; Worth 1998:88). In others, access may have been more limited in some situations and more inclusive in others (Speck 1979:120). Based on the few funerals in public buildings documented in the historic record, it is clear that the person being interred in the public building in death was also one who could access the building during life (Swanton 1911:138-157). I assume that the public buildings at Town Creek were similar to those documented in the ethnohistoric record in regard to function and social proscriptions determining access. The activities that took place within public buildings at Town Creek probably involved primarily community-level decision-making and the hosting of intracommunity social events. I also assume that the people buried in public buildings were individuals who frequented those buildings in life.

The social groups living in the domestic structures that constituted the Mississippian community at Town Creek were likely kin-based entities such as lineages and clans. Among

historic native groups in the Southeast, regional tribal units were subdivided into a small number of clans (Knight 1990). For example, the Cherokees were divided into seven clans (Gearing 1958:1150) and the Choctaws into six to eight (Swanton 1993:79). Clan membership was matrilineal with each person becoming a member of their mother's clan at birth (Hudson 1976:185). Clans were manifested at the local level as matrilineages which often consisted of a single household or group of closely related households organized around a matriarch (Hudson 1976:189; Knight 1990:6). Historic native communities were composed of multiple matrilineages that represented several different clans (Hudson 1976:190; Knight 1990:6). While clans were only weakly corporate groups, members of matrilineages met often and it was matrilineages that controlled access to particular economic resources such as agricultural land (Hudson 1976:193; Knight 1990:5-6).

DATA AND METHODS

The Town Creek burial population includes 239 individuals of which 218 derive from Mississippian contexts, seven from the Late Woodland Structure 18, and 14 from two Protohistoric burial clusters (Appendix I). Age and sex information comes primarily from Patricia Lambert's analysis of the human skeletal remains for the site's NAGPRA inventory (Davis et al. 1996). Age and sex determinations for an additional 29 individuals not included in Lambert's analysis came from Elizabeth Driscoll's (2001) dissertation. Lambert and Driscoll's age determinations were used to assign each individual to an age class. The classes are children (5 years of age and younger), adolescents (6 to 14 years), young adults (15 to 24 years), mature adults (25 to 34 years), and older adults (35 years and older).² Burial position, orientation, and grave morphology were obtained from the Town Creek

burial forms and field notes that are curated by the RLA. Artifact identifications and counts are based largely on my own analysis. The exceptions are items that were not collected in the field or had been collected and subsequently lost. In those cases, identifications and counts are based on the field notes.

THE TOWN CREEK MORTUARY RECORD

Burials were attributed to either the Late Woodland, Mississippian, or Protohistoric cultural periods based on their artifactual and architectural associations (see Chapters 3 and 4). In this section, an overview is provided of the Town Creek mortuary record. This discussion includes burial attributes such as age, sex, burial position, burial type, and associated artifacts. For the Mississippian period, the overview is organized primarily by structure type. In the next section, some of the diachronic changes and synchronic variation in the mortuary data regarding Town Creek's social and political structure are discussed.

Late Woodland Period

The only Late Woodland burials identified at Town Creek are those that were placed in and around Feature 58/Mg3 within Structure 18 (Figure 5.1). Structure 18 contained seven burials, five adults and two adolescents. Six of these were flexed and one was of indeterminate position. Structure 18 is unique at Town Creek because all of the adults buried within it were males. It seems that sex was the determining factor for burial within Structure 18 because all age classes except for infants were represented.

Only two of the burials within Structure 18 were associated with artifacts. One (Burial 128/Mg3) contained a cache of flakes. The other (Burial 135/Mg3) was a mature

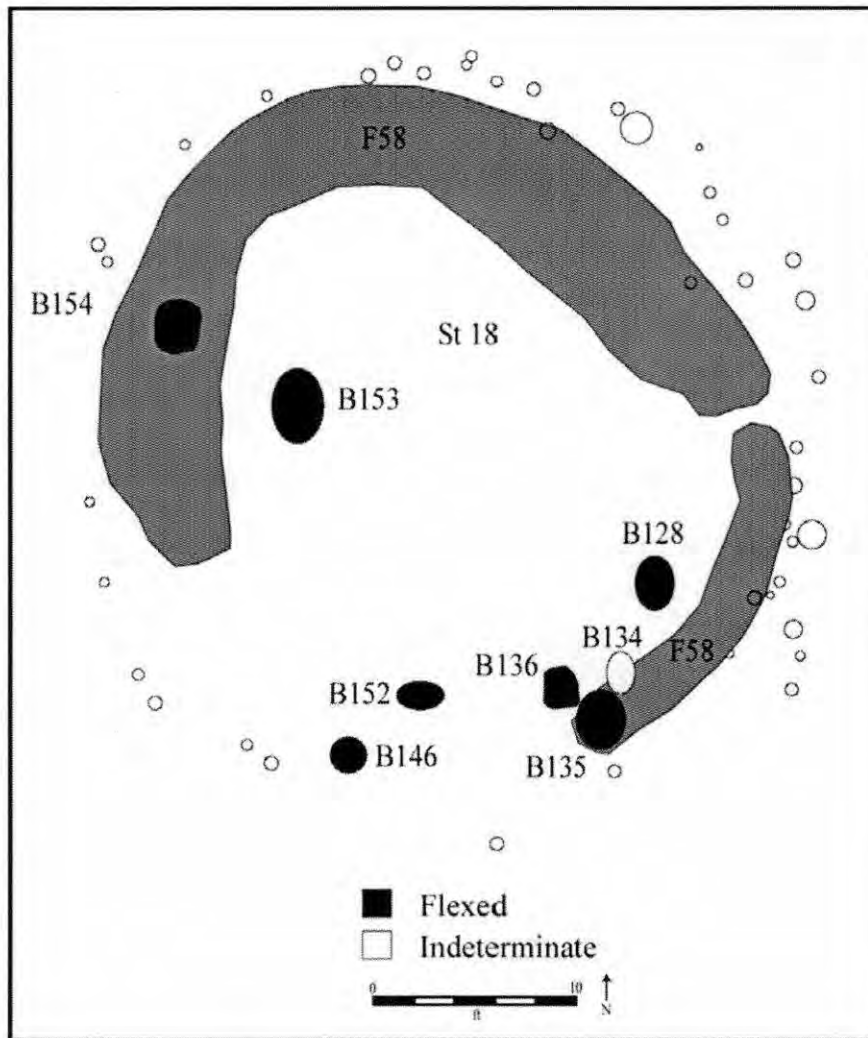


Figure 5.1. Burials associated with Structure 18.

adult male associated with three unique stone artifacts (Figures 5.2 and 5.3). One of these was a stone smoking tube. Another was a bent-tube, winged style stone pipe (Irwin et al. 1999:75) with geometric designs carved on it. Coe identified this burial as being "Siouan" (1995:223), but pipes of this type are more consistent with Late Woodland or Mississippian contexts in eastern North Carolina (Irwin et al. 1999:77). The third artifact associated with Burial 135/Mg3 was a human face carved from stone (Coe 1995:Figures 11.6a and 11.7). The back of this artifact was hollowed out and three holes were drilled into its bottom.

Early Town Creek Phase

As defined in Chapter 4, the early Town Creek phase community consisted of a series of submound public buildings and an adjacent village consisting of at least 10 Small Circular Structures.³ In this section, the mortuary record associated with these two parts of the community is discussed. Early Town Creek-phase burials largely or wholly predate mound construction.

Public Structures

Three sets of public buildings were located beneath the mound at Town Creek. The first set consisted of a larger, rectangular structure (Structure 4a) and a smaller, square one (Structure 24) (Figure 5.4). Structure 4a contained at least four burials. One of these is the burial of a child (Burials 44/Mg2) and the three others are of adult females (Burials 7, 36, and 41/Mg2). Interestingly, there were no adult men buried in this public building. Three of the burials were associated with artifacts which included marine shell fragments and beads, stone beads, and a ceramic pot. As discussed in Chapter 3, burials appear to have been

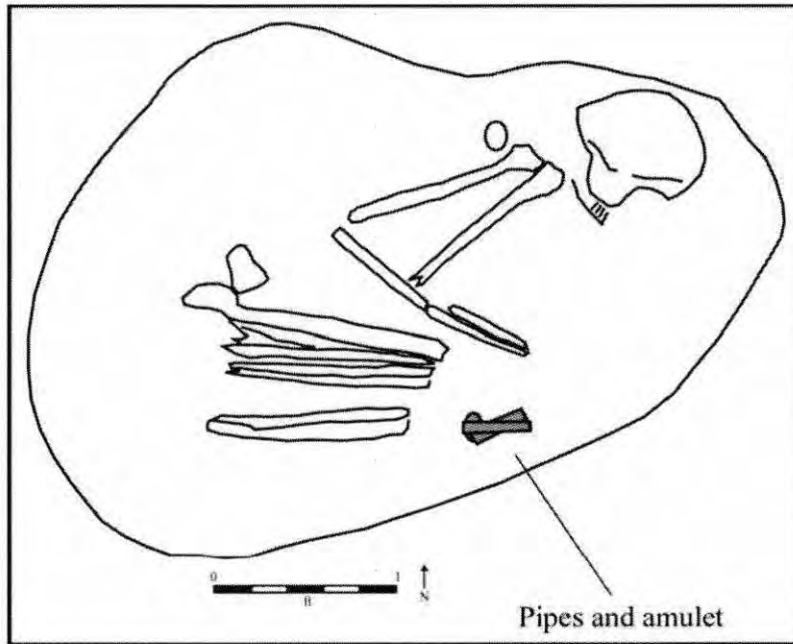


Figure 5.2. Burial 135/Mg3.

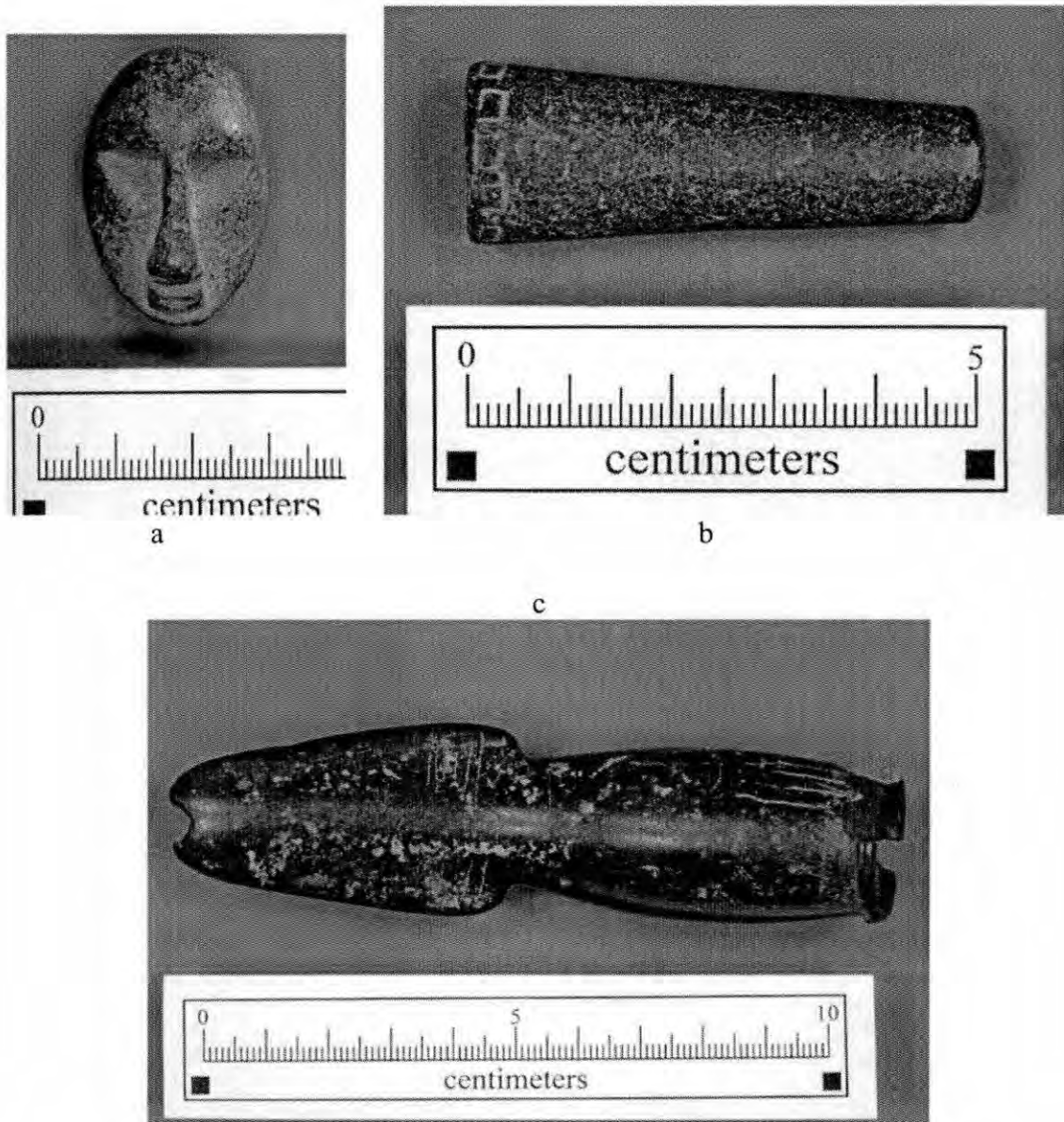


Figure 5.3. Objects associated with Burial 135/Mg3: (a) carved stone human face (b) stone tube pipe (c) stone bent-tube, winged pipe (Photographs by R. P. Stephen Davis, Jr.).

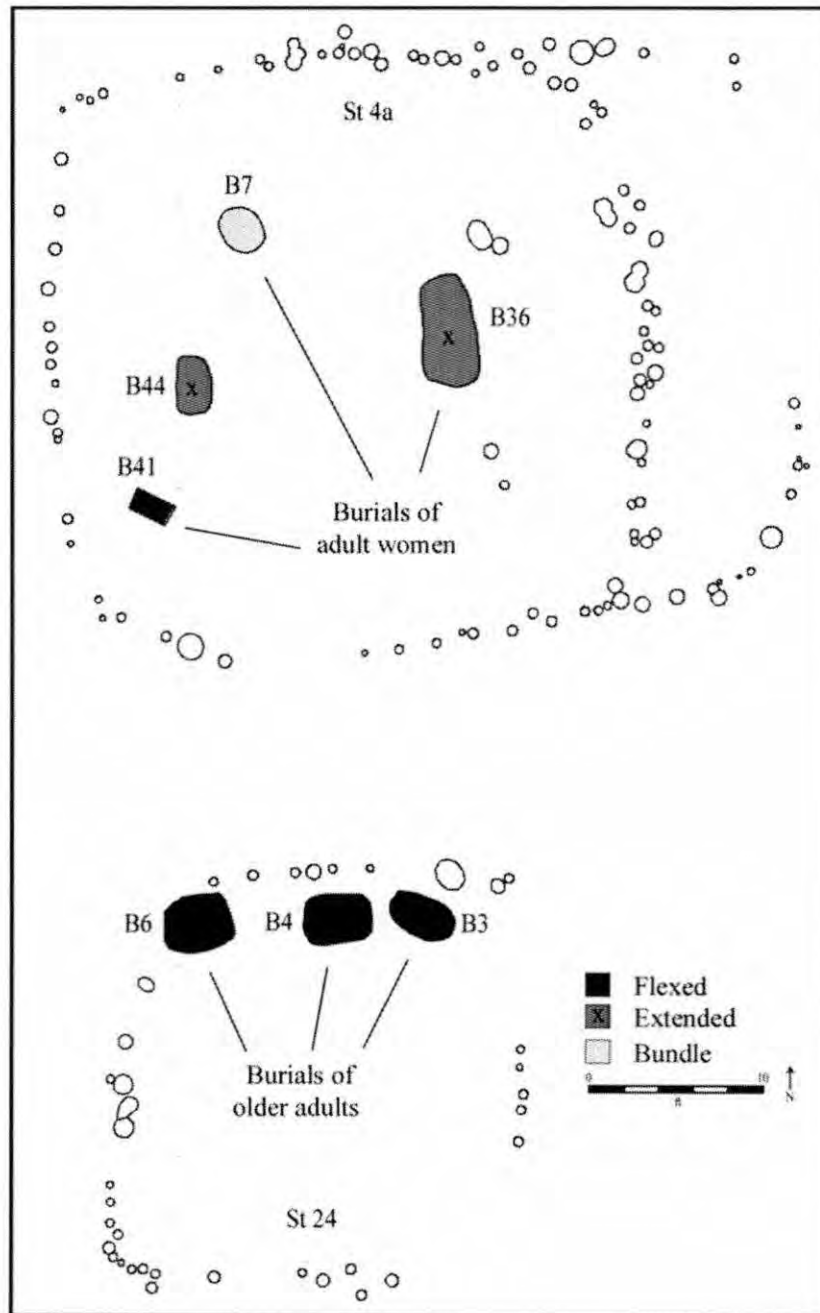


Figure 5.4. Burials associated with Structures 4a and 24.

placed within Structure 4a along one of two axes (Figure 3.20). One of these is an east-west axis that bisects the structure. Two extended burials, of an adult (Burial 36/Mg2) and a child (Burial 44/Mg2), and two hearths were located on this axis. Two other burials were aligned with Burial 44/Mg2 along a northeast-southwest axis. Burial 7/Mg2 is an adult female bundle burial and Burial 41/Mg2 is the flexed burial of an adult female that was located beneath the northeast corner of Structure 23c.

Structure 24 contained three flexed burials on its north side and a possible fourth burial (Feature 8/Mg2) that only contained a few human bones on its south side. The three definite burials were all older adults which were at least 35 years old at the time of death. Two of these individuals were males (Burials 4 and 6/Mg2) and the third was possibly a female (Burial 3/Mg2). One of the males (Burial 6/Mg2) was buried with a number of small, columella beads and six needle-like bone artifacts. These six items were found side-by-side and likely together composed a single tool (Figure 5.5). This artifact has been interpreted as a ceremonial skin scratcher like those used by historic native groups (Coe 1995:240). These were items used by ritual practitioners for blood-letting in curing rituals (Hudson 1976:415-416; Swanton 1979:564). They are perhaps best known from James Mooney's (1890:121-122) documentation of their use among the Cherokees prior to stick ball games (see also Culin 1975:580-581 and Plate 14; Hudson 1976:415-417). The archaeological specimen from Town Creek is similar to ethnographically documented scratchers (Hudson 1976:Figure 98; Speck 1979:Figure 40). That the archaeological specimen served the same function as the ethnographic ones seems plausible based on their similarity of form.

The second early Town Creek-phase public building was the earth-embanked Structure 4b (Figure 5.6). The two burials within this structure were located along the same

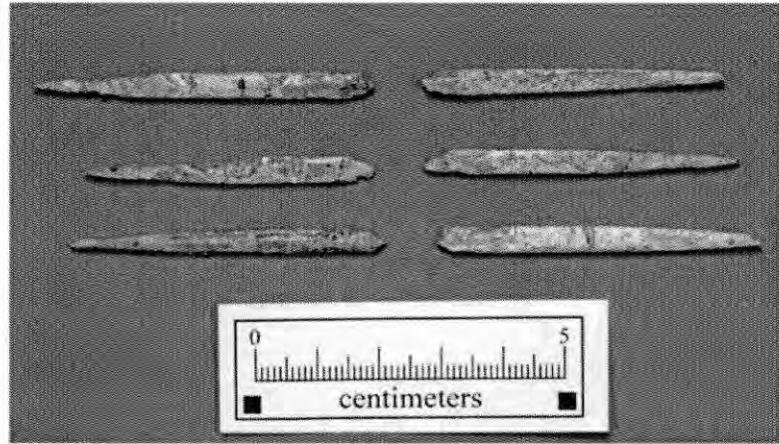


Figure 5.5. Bone scratchers associated with Burial 6/Mg2 (Photograph by R. P. Stephen Davis, Jr.).

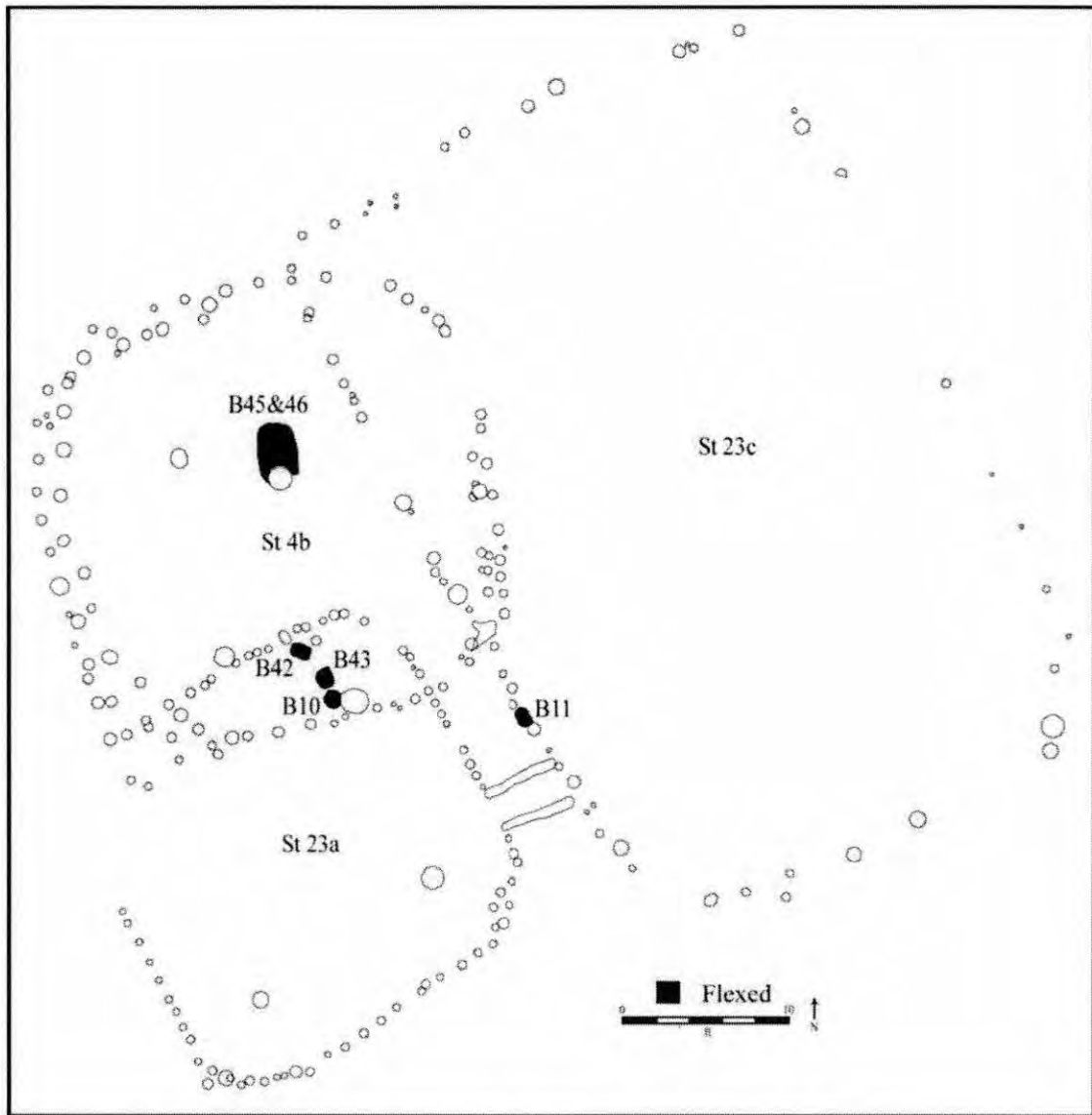


Figure 5.6. Burials associated with Structures 4b, 23a, and 23c.

east-west axis that bisected Structure 4a, so it is unclear with which structure these burials were associated. One of these interments was the extended burial of an adult female (Burial 45/Mg2) and the other was a child (Burial 46/Mg2) who was buried with six shell pendants.

The third cohort of early Town Creek phase-public buildings consisted of Structures 23a and 23c (Figure 5.6). These were the public buildings in use immediately prior to mound construction. Structures 23a and 23c were paired structures consisting of a square earth-embanked building connected to a large, relatively lightly constructed rectangular building. The burials of four infants were located in these structures, but they did not contain any adult burials. Three of the infant burials (Burials 10, 42, and 43/Mg2) were located in the northeast corner of Structure 23c, adjacent to an interior roof support and a line of postholes forming a wall. The fourth (Burial 11/Mg2) was located in the line of postholes forming the west wall of Structure 23a. The fact that they may have been the only burials, coupled with their location within the buildings—adjacent to a roof support post and, in one case, in a line of wall posts—suggests that these burials may represent ritual interments, possibly related to the construction of these structures. The association of infant sacrifices with Mississippian public buildings has been documented in the archaeological and ethnohistoric record (Blitz 1993a:88-89; Butler 1934:41; Kenton 1927:341 and 431; McWilliams 1988:90, 93-95; Peebles and Kus 1977:439-440). The situation at Town Creek is not as clear cut as these examples, though, and is open to alternative interpretations.

Small Circular Structures

Seventy-two individuals were buried within Small Circular Structures at Town Creek. The general pattern is that burials were placed in a cluster near the center of each structure

(Figure 5.7). All age-sex categories are represented in Small Circular Structures, which is consistent with them having been used by an entire family group. The representative demographic profile of Small Circular Structures, coupled with their size and ubiquity, indicates that these were domestic structures.

Most individuals within Small Circular Structures were buried in a flexed position (n=48). The exceptions were several urn (n=8) and extended (n=4) burials. Urn burials are interments in which infants were placed in large complicated-stamped or textile-impressed jars that were buried in pits in structure floors (Figure 5.8) (see Coe 1952:309; Ferguson 1971:206). In at least one case, a ceramic bowl had been inverted over the mouth of the jar and used as a cover. It is likely that more, possibly all, urn burials also included an inverted bowl as a lid but that these were not preserved in plowed contexts. Urn burials were found in three of the excavated Small Circular Structures (Structures 2, 12, and 49).

In four of the six excavated Small Circular Structures (Structures 2, 6, 14, and 49), the extended burial of an adult was located within the cluster of flexed burials. Thus, it seems clear that one adult in each domestic structure was distinguished at the time of death with a unique burial position. One exception to this pattern is Structure 5a, but position was not recorded in the field for the central burial in this structure, so it could well have contained an extended burial. The other exception is Structure 12, a Small Circular Structure located next to the river. This structure was superimposed by at least two other structures and a large, shallow pit, so it is possible that it also contained an extended burial but that it was destroyed by subsequent activities.

Artifacts were associated with 22 of the burials in Small Circular Structures. Columella beads were the most ubiquitous. Noteworthy occurrences include several copper

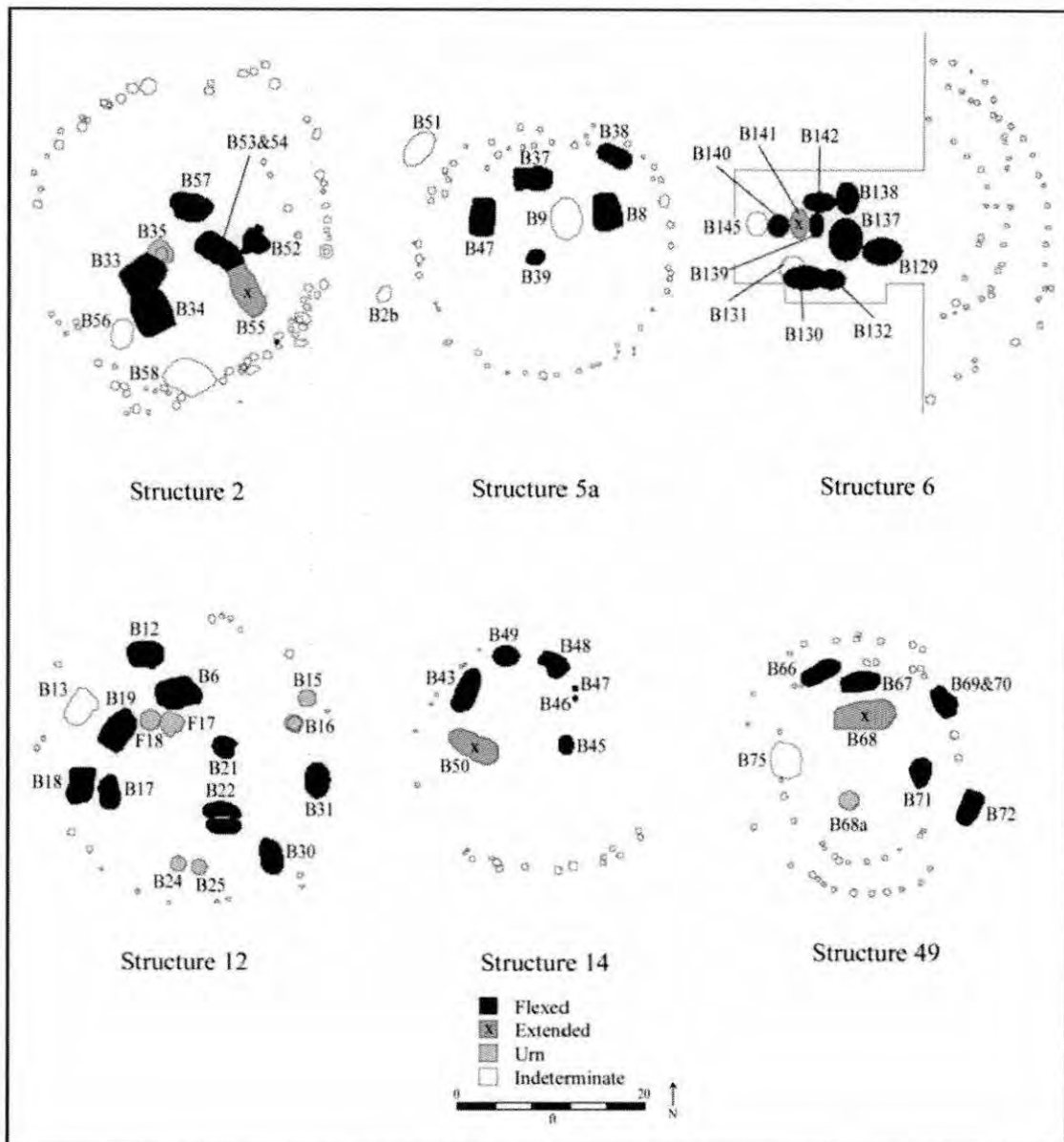


Figure 5.7. Burials in Small Circular Structures.

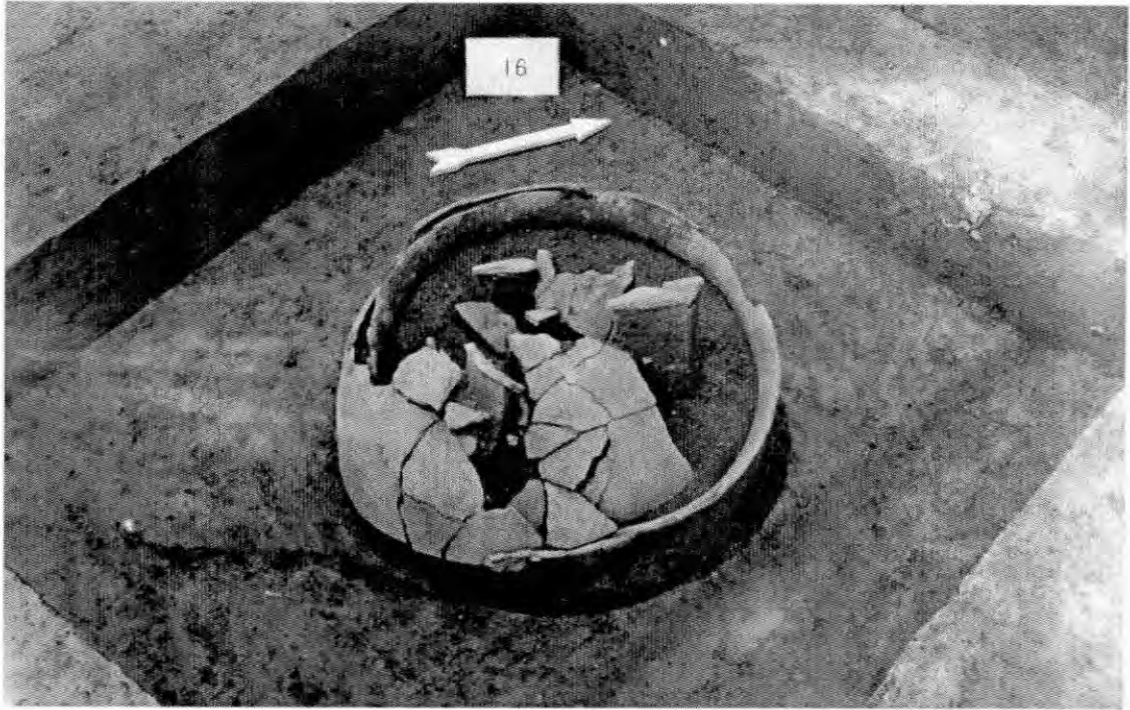


Figure 5.8. Urn burial *in situ*, 1937 (RLA image 84).

fragments with Burial 47/Mg2 in Structure 5a and a Pine Island style gorget (see Brain and Phillips 1996:28-30) with Burial 43/Mg3 in Structure 14 (Figure 5.9). The most distinctive artifact associated with a burial in a Small Circular Structure was a copper axe found (Figure 5.10) with Burial 50/Mg2, an extended burial located within Structure 14 (Figure 5.11). Five of the infants in urn burials were associated with artifacts other than the urns themselves. Most of these were columella beads. The one urn burial with more than shell beads was Burial 68a/Mg3 within Structure 49 that included a Pine Island style shell gorget and a quartz crystal (Figure 5.12).

Late Town Creek-Leak Phase

The late Town Creek-Leak-phase community consisted of public buildings on the mound summit, a special area next to the Little River that was set apart by a rectangular enclosure, and a plaza that was surrounded by Enclosed Circular, Large Rectangular, and Small Rectangular Structures. The burials from this phase largely or wholly postdate mound construction.

Summit Structures

Two sets of buildings located on two different mound summits were excavated. Each set consisted of two small, square structures joined by an entrance trench. As discussed in chapters 3 and 4, it is likely that these two buildings were located behind a large, arbor-like, rectangular structure located on the plaza side of the summit. The northern building (Structure 45a) in the earlier set of structures contained two flexed burials that were located next to a central hearth (Figure 5.13). An additional grave-shaped pit (Feature 29/Mg2) was



Figure 5.9. Pine Island style shell gorget associated with Burial 43/Mg3 (Photograph by R. P. Stephen Davis, Jr.).

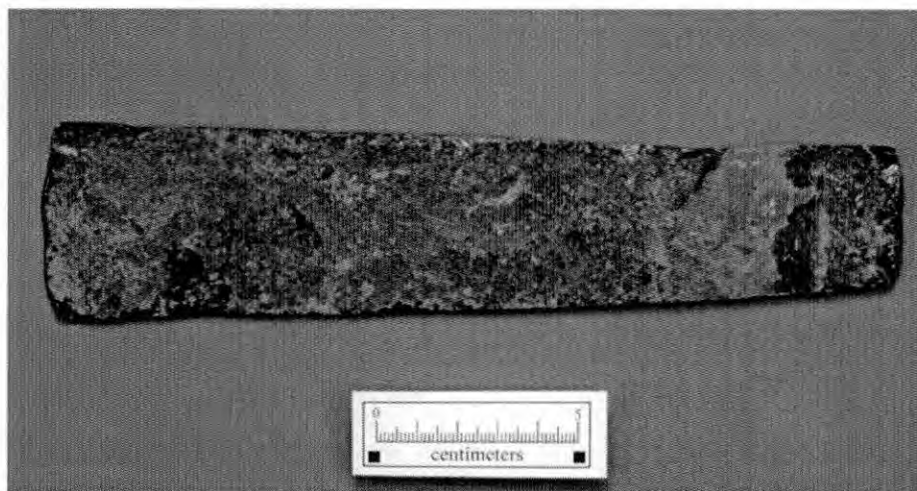


Figure 5.10. Copper axe associated with Burial 50/Mg3 (Photograph by R. P. Stephen Davis, Jr.).

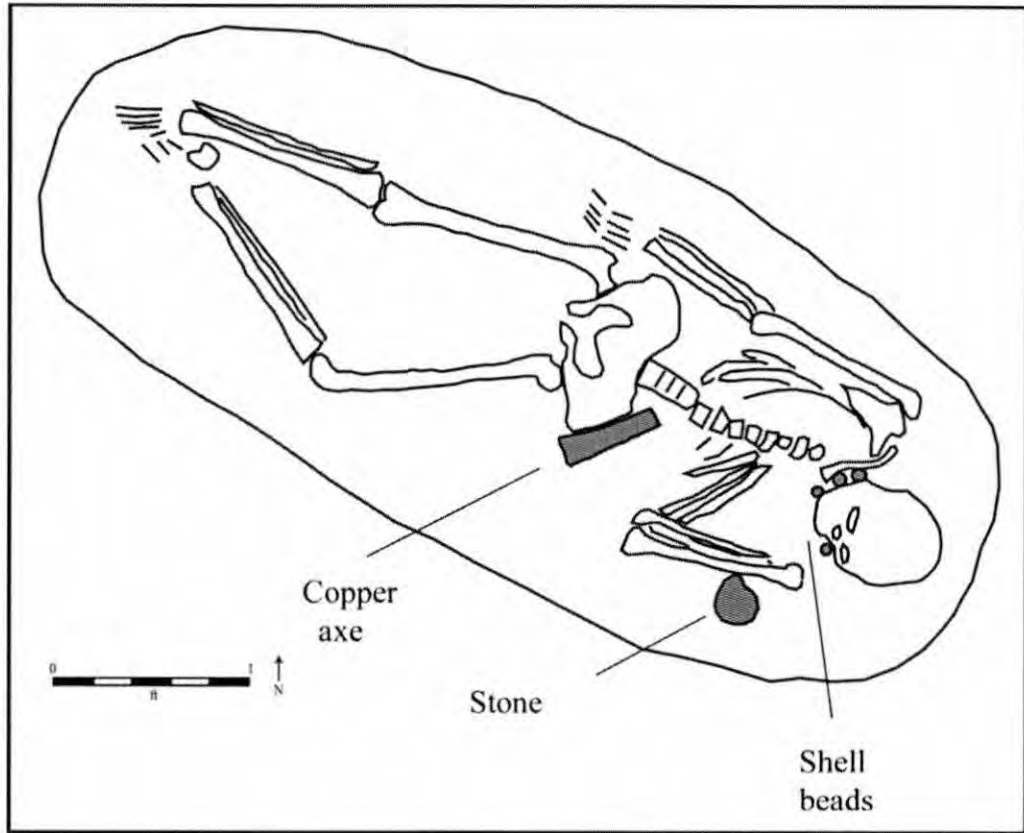
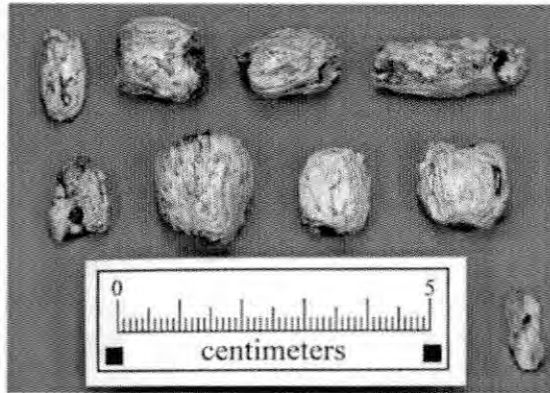
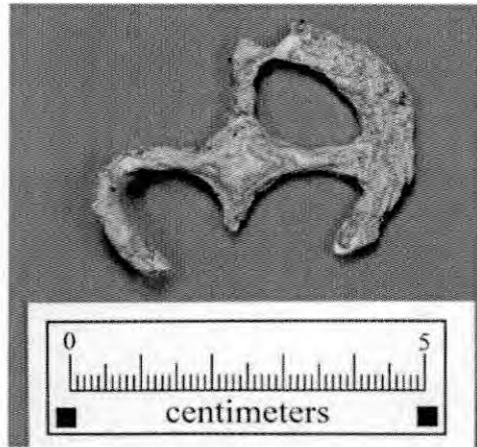


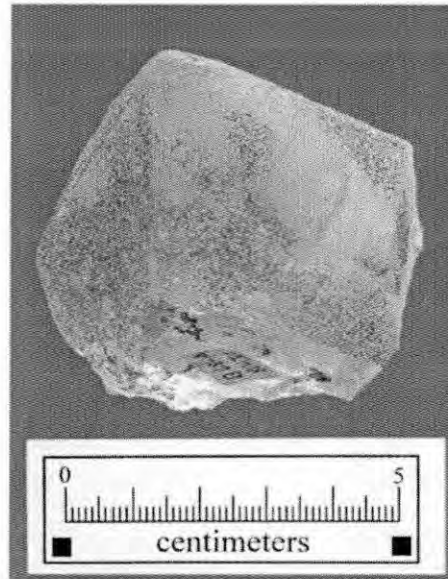
Figure 5.11. Burial 50/Mg3.



a



b



c

Figure 5.12. Objects associated with Burial 68a/Mg3: (a) shell beads (b) Pine Island style shell gorget (c) quartz (Photographs a and b by R. P. Stephen Davis, Jr.).

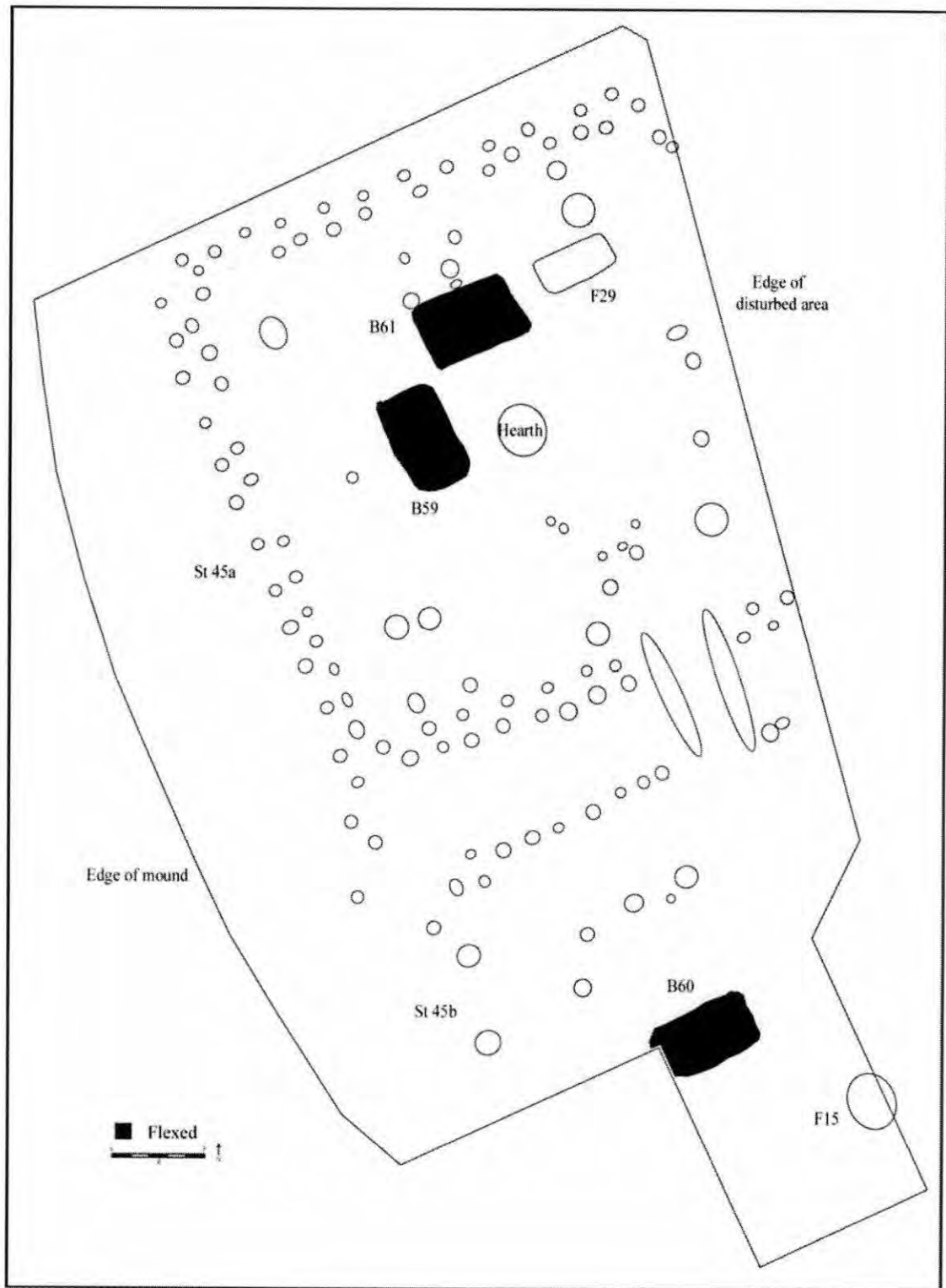


Figure 5.13. Burials associated with Structures 45a and 45b on the mound summit.

located nearby, but it did not contain any bone. Both of the individuals in Structure 45a were young adults. Sex could not be determined for one of them (Burial 61/Mg2). This person was buried with two pieces of quartz crystal. The other was a male (Burial 59/Mg2) who was buried with six different types of artifacts (Figure 5.14). These included a piece of red ochre, two projectile points, and a number of columella beads, several of which were made of large, relatively unmodified portions of shell. This individual was also buried with three circular mica ornaments that were in the form of an excised cross (Figure 5.15). Two piles of small pebbles located in the grave were interpreted as the remains of rattles. The southern building (Structure 45b) in the earlier set of summit structures contained one flexed burial (Burial 60/Mg2) and an empty circular pit (Feature 15/Mg2). The burial was an adult for which age and sex could not be determined. This person was associated with fragments of mica and a pile of pebbles that indicated the presence of a rattle (Figure 5.16).

Only two burials were associated with the two structures on the later summit (Figure 5.17). The northern structure (Structure 46a) contained several large and small empty pits as well as a bundle burial (Burial 48/Mg2) located near the entrance. This person was a young adult female who was buried with a marine shell pin (Figure 5.18). The only feature that was not a posthole identified within the southern structure (Structure 46b) was the bundle burial (Burial 49/Mg2) of a young adult for which sex could not be determined. This person was not buried with any artifacts.

Public Structures Next to the River

Several superimposed structures, a number of burials, and a rectangular enclosure were located in the area next to the Little River across from the mound (Figure 5.19).

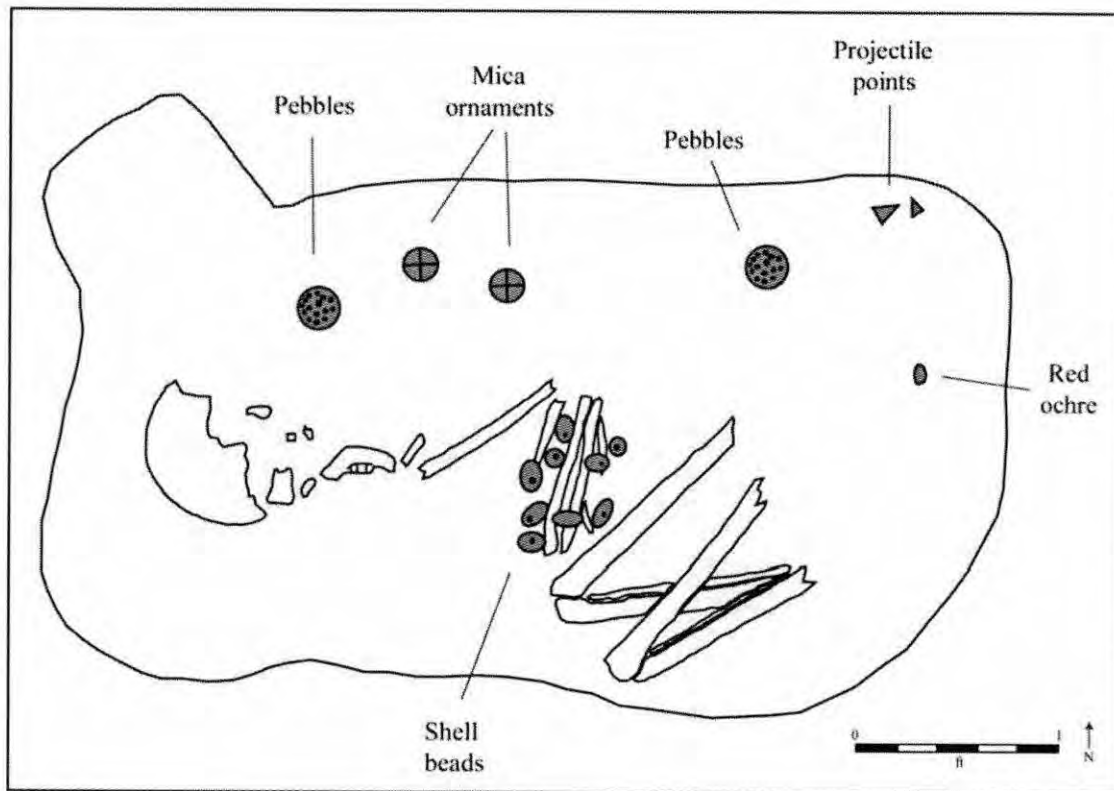
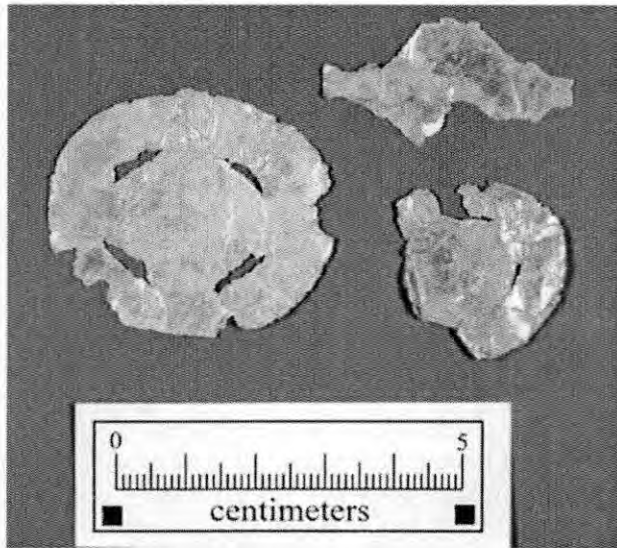
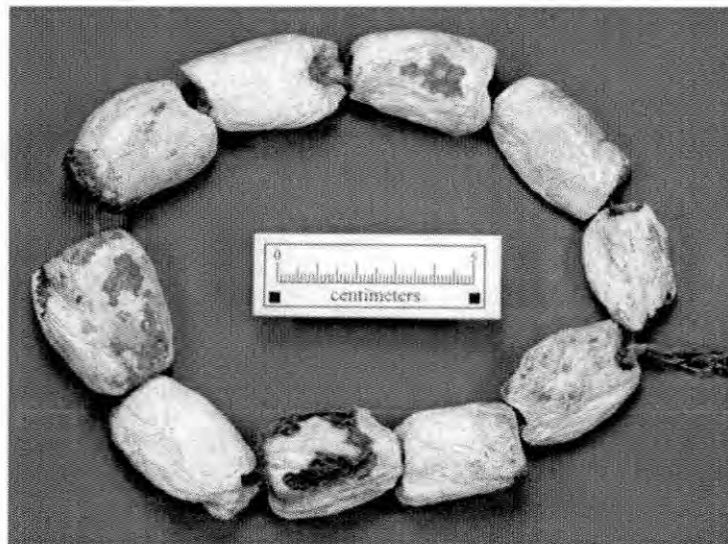


Figure 5.14. Burial 59/Mg2.



a



b

Figure 5.15. Objects associated with Burial 59/Mg2: (a) mica ornaments (b) large shell beads (Photographs by R. P. Stephen Davis, Jr.).

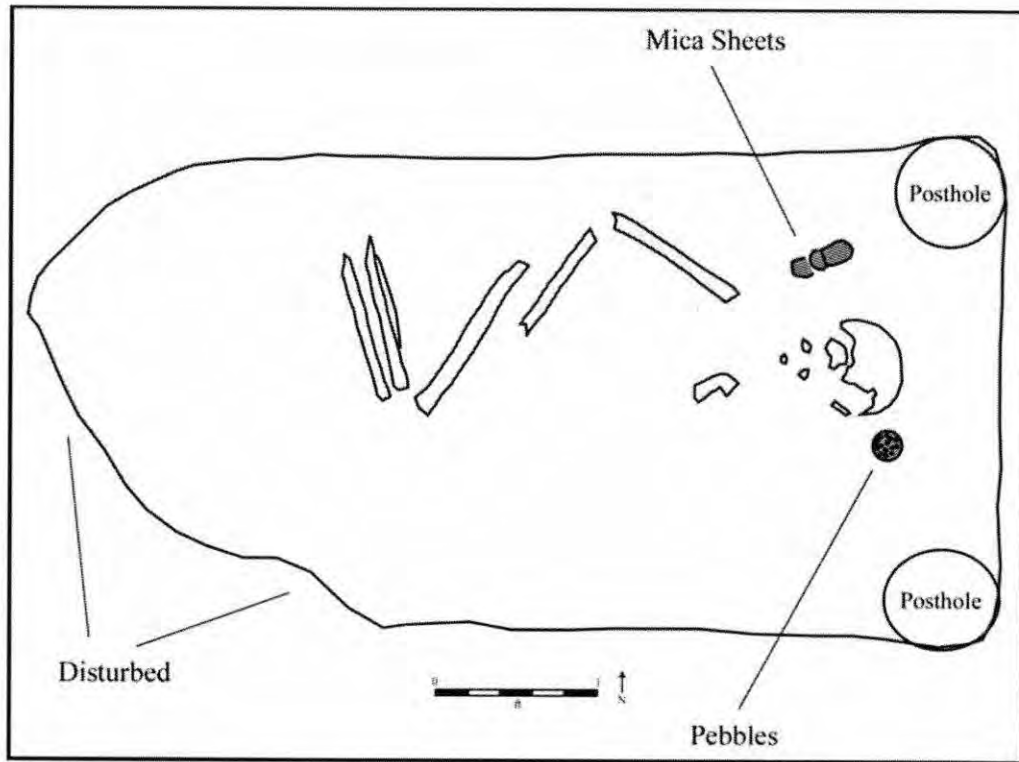


Figure 5.16. Burial 60/Mg2.

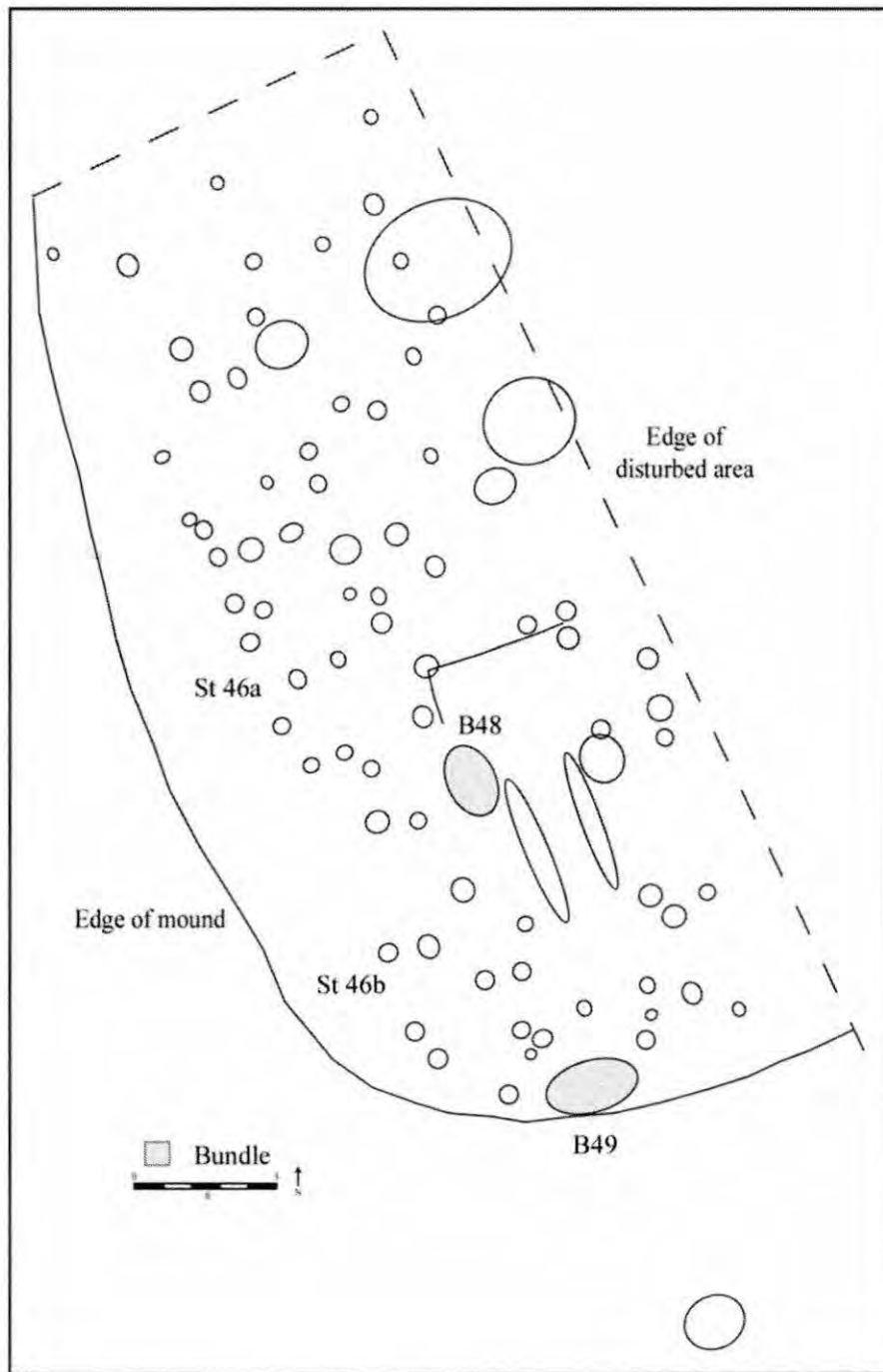


Figure 5.17. Burials associated with Structures 46a and 46b on the mound summit.

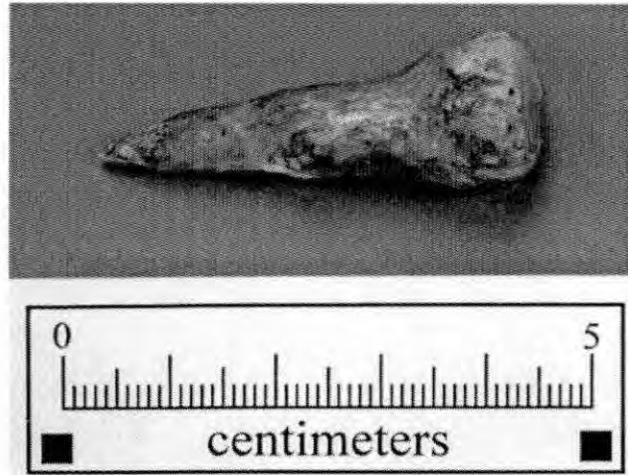


Figure 5.18. Marine shell pin from Burial 48/Mg2 (Photograph by R. P. Stephen Davis, Jr.).

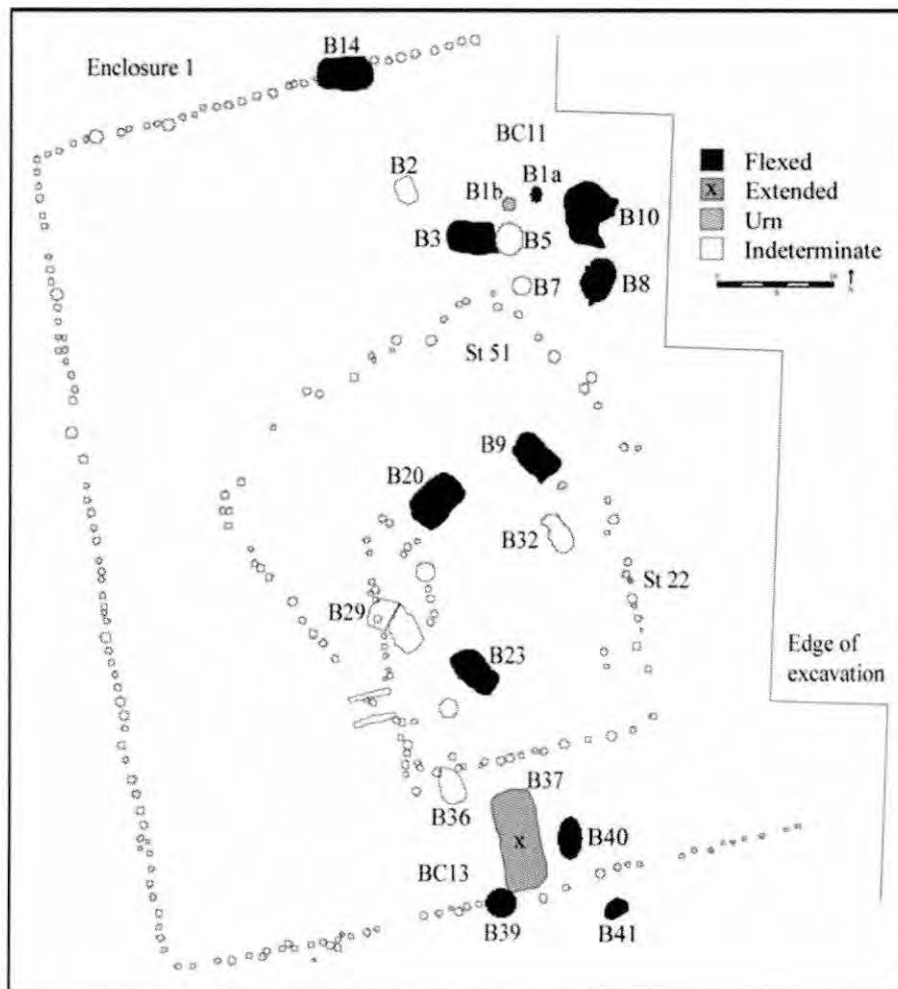


Figure 5.19. Burials associated with Enclosure 1 and Structure 51.

Enclosure 1 encompasses Structure 51 as well as two burial clusters. Burial Cluster 11 is located on its north side and Burial Cluster 13 on its south side. Burial clusters 11 and 13 at least approximately date to the same period as Enclosure 1. Burial clusters 11 and 13 included 16 human burials. Interestingly, Burial Cluster 11 also contained the urn burial of a dog (Figure 3.48). Each cluster consists of several burials around the central burial of an adult woman associated with unique artifacts (Burials 5 and 37/Mg3). All age classes are represented in the burial clusters within Enclosure 1. The adults for which sex could be determined were female (n=6), with the one exception being an older adult male in Burial Cluster 11. Except for Burial 37/Mg3, the individuals in these two clusters were buried in a flexed position (n=10).

Seven of the 17 individuals in Burial Clusters 11 and 13 were associated with artifacts. These include some of the most distinctive artifacts found at Town Creek. The central interment in Burial Cluster 11 is the flexed burial of a young adult woman (Burial 5/Mg3) who was associated with three projectile points and a rattle (Figure 5.20). This woman was also buried with four conch-shoulder gorgets⁴ (Figure 5.21). The remains of an infant (Burial 3/Mg3) were located near the feet of Burial 5/Mg3 and a skull (Burial 4/Mg3) was near her head. It is not known if these additional individuals were associated with Burial 5/Mg3 or if they are unrelated burials that were disturbed by Burial 5/Mg3. The flexed burial of another young adult female (Burial 1a/Mg3) in Burial Cluster 11 was associated with fragments of marine shell and a section of a large, complicated-stamped jar. The central interment in Burial Cluster 13 is the extended burial of a mature adult woman (Burial 37/Mg3) who was interred next to the south wall of Enclosure 1 and oriented perpendicular to it (Figure 5.22). In addition to her unique location and burial position, this woman was

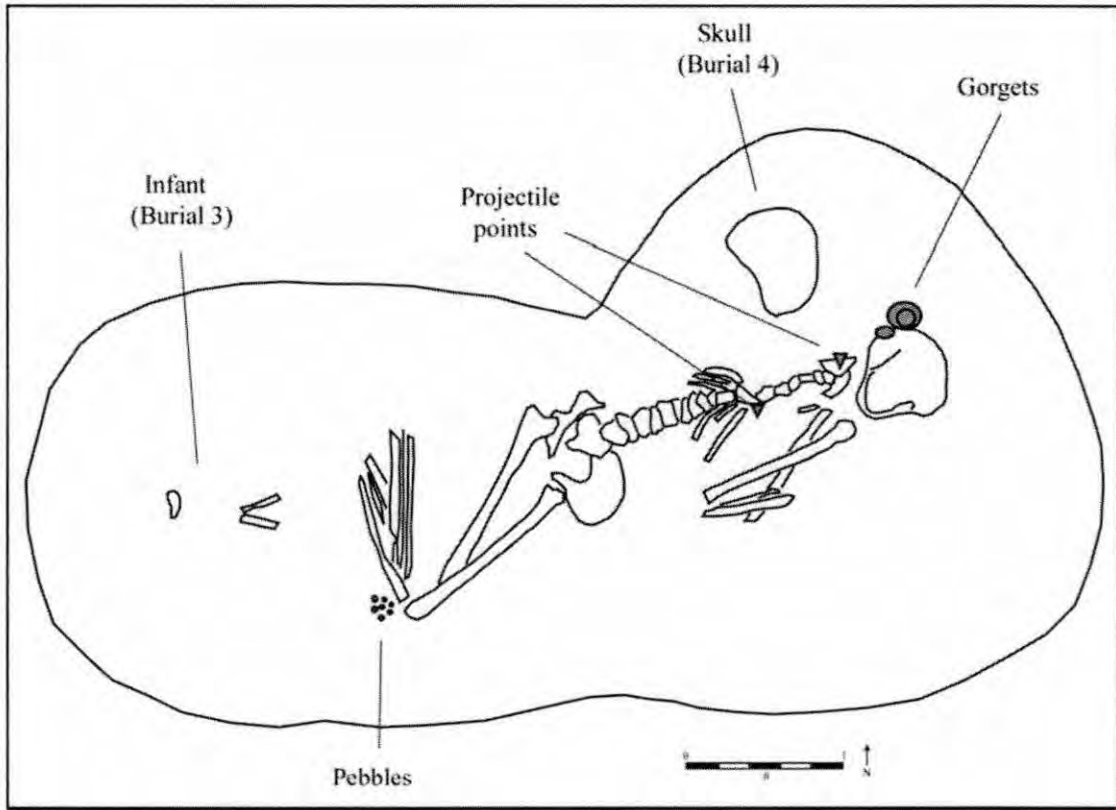
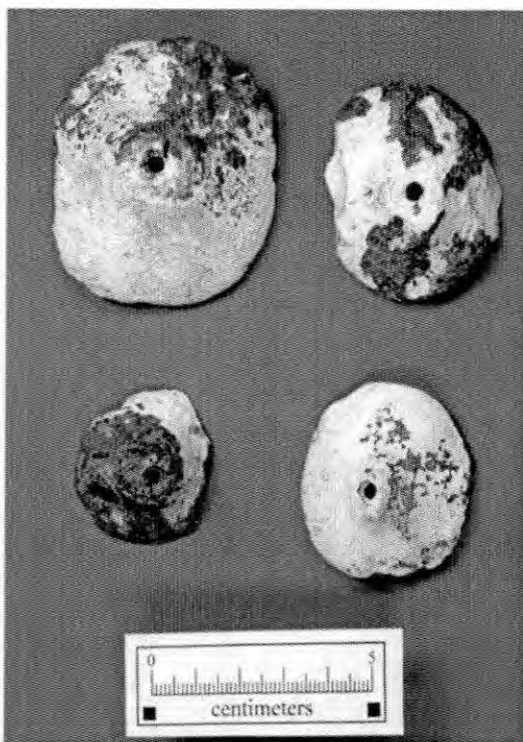
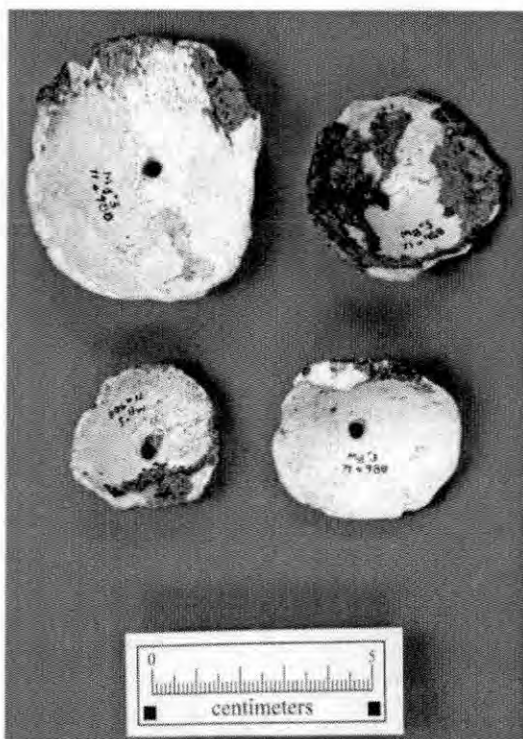


Figure 5.20. Burial 5/Mg3.



Front



Back

Figure 5.21. Conch-shoulder gorgets from Burial 5/Mg3 (Photographs by R. P. Stephen Davis, Jr.).

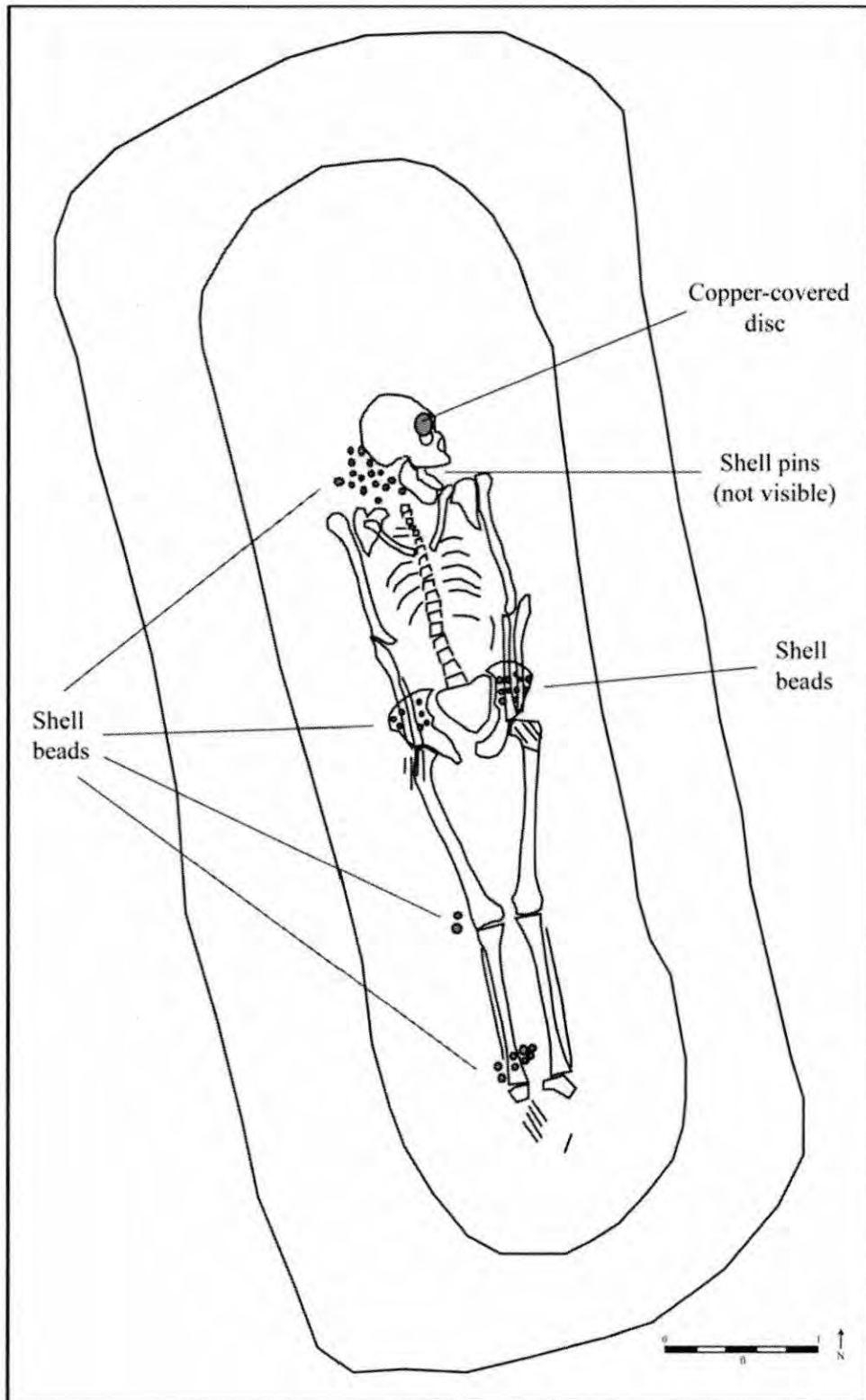
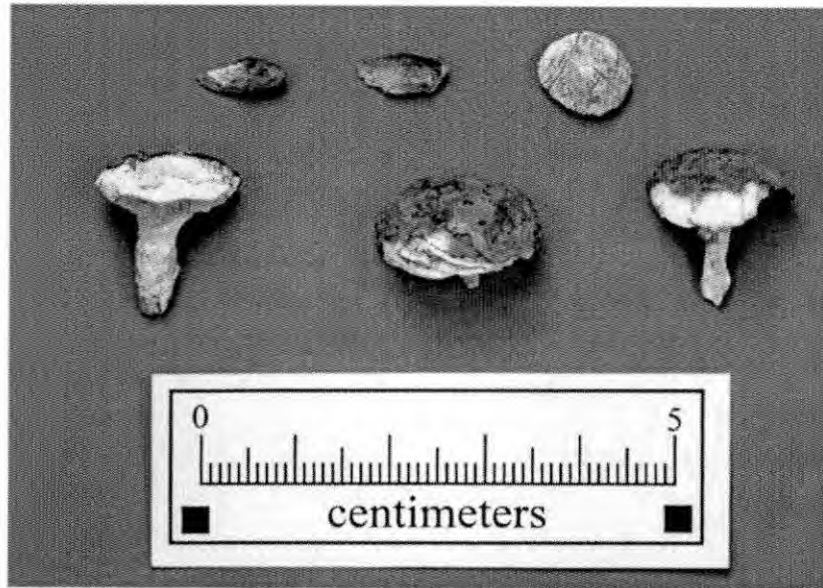


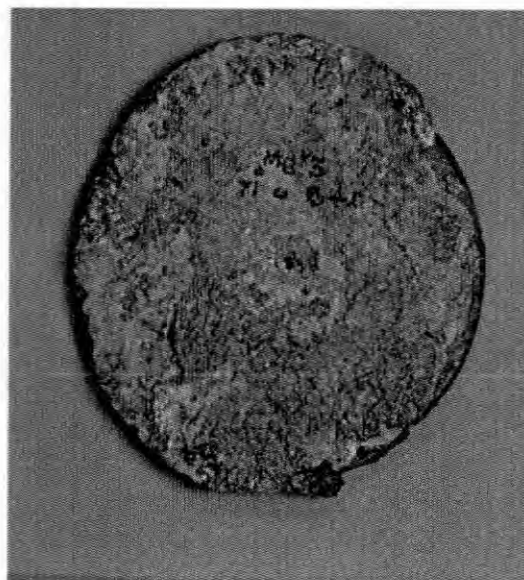
Figure 5.22. Burial 37/Mg3.

associated with 98 columella beads, four bracket-style marine shell ear pins (see Brain and Phillips 1996:362), and a copper-covered wooden ear spool (Figure 5.23). Another individual in Burial Cluster 13 with a unique artifact is the flexed burial of a young adult woman (Burial 33/Mg3) who was interred with two disks made of polished, nonlocal stone that may have been ear ornaments (Figure 5.24). A child burial (Burial 36/Mg3) was associated with two ceramic disks, a polished stone disk, two copper-covered wooden ear spools, and a rattle (Figure 5.25).

Five individuals were buried inside of Structure 51. Burials were aligned to the wall of the structure and they were arranged in a square near its center. The burials for which position could be determined were flexed and those for which age could be determined were young adults. Sex could be determined for only one individual, an adult male. Three of the burials were associated with artifacts. The flexed burial of a young adult (Burial 9/Mg3) located on the east side of the structure contained a large columella bead and a large stone had been placed near the person's head. The flexed burial of a young adult (Burial 23/Mg3) located on the west side of the structure was associated with 16 relatively unmodified columella beads and fragments of mica (Figure 5.26). The flexed burial of an adult male⁵ (Burial 20/Mg3) was located near the center of Structure 51 and exactly at the center of Enclosure 1 (Figure 5.27). In addition to being clearly buried in relation to prominent public structures, this person was associated with one of the most diverse and unusual burial assemblages at Town Creek. This man's burial included one columella bead, four projectile points, mica fragments, a pottery pipe, a rattle, and a raccoon skull (Figure 5.28).



a



b

Figure 5.23. Objects associated with Burial 37/Mg3: (a) shell pins (b) copper-covered wooden ear spool (Photographs by R. P. Stephen Davis, Jr.).

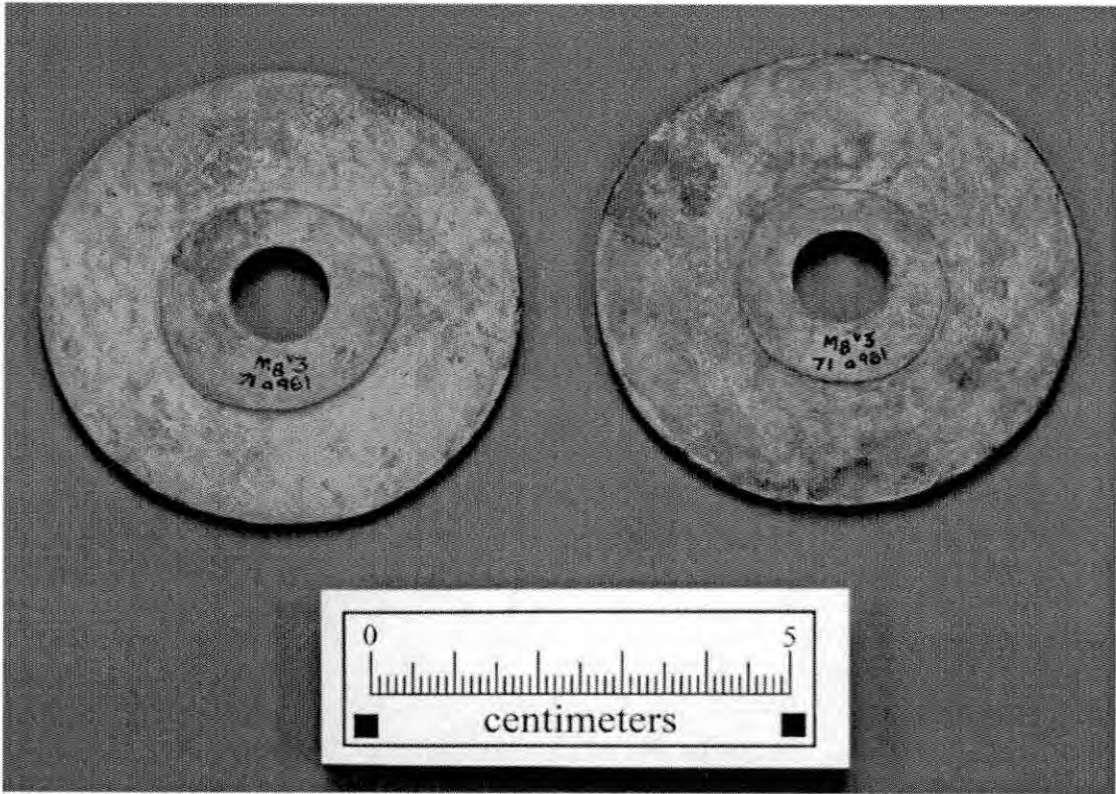


Figure 5.24. Polished stone discs with Burial 33/Mg3 (Photograph by R. P. Stephen Davis, Jr.).

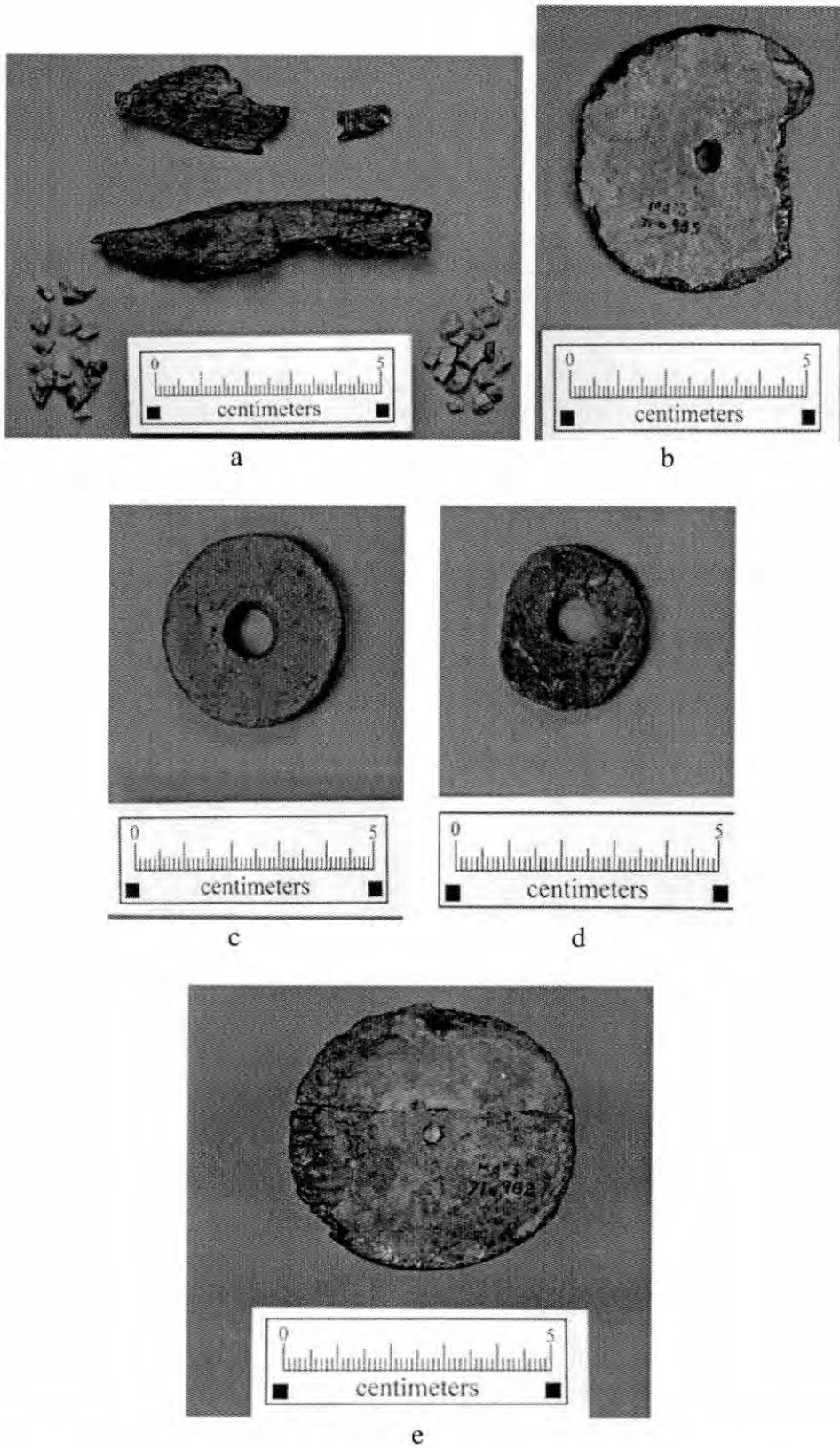


Figure 5.25. Objects associated with Burial 36/Mg3: (a) rattle (b and e) copper-covered wooden ear spools (c) stone disk (d) ceramic disk (Photographs by R. P. Stephen Davis, Jr.).

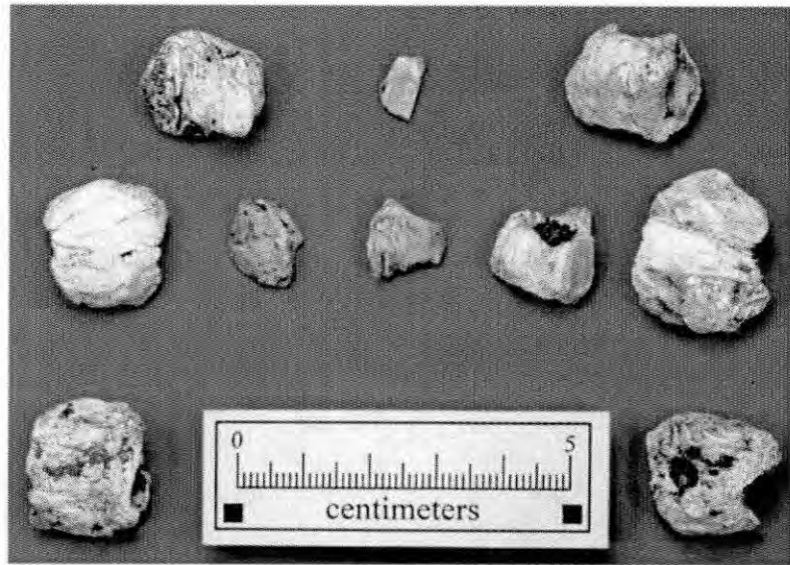


Figure 5.26. Columella beads associated with Burial 23/Mg3 (Photograph by R. P. Stephen Davis, Jr.).

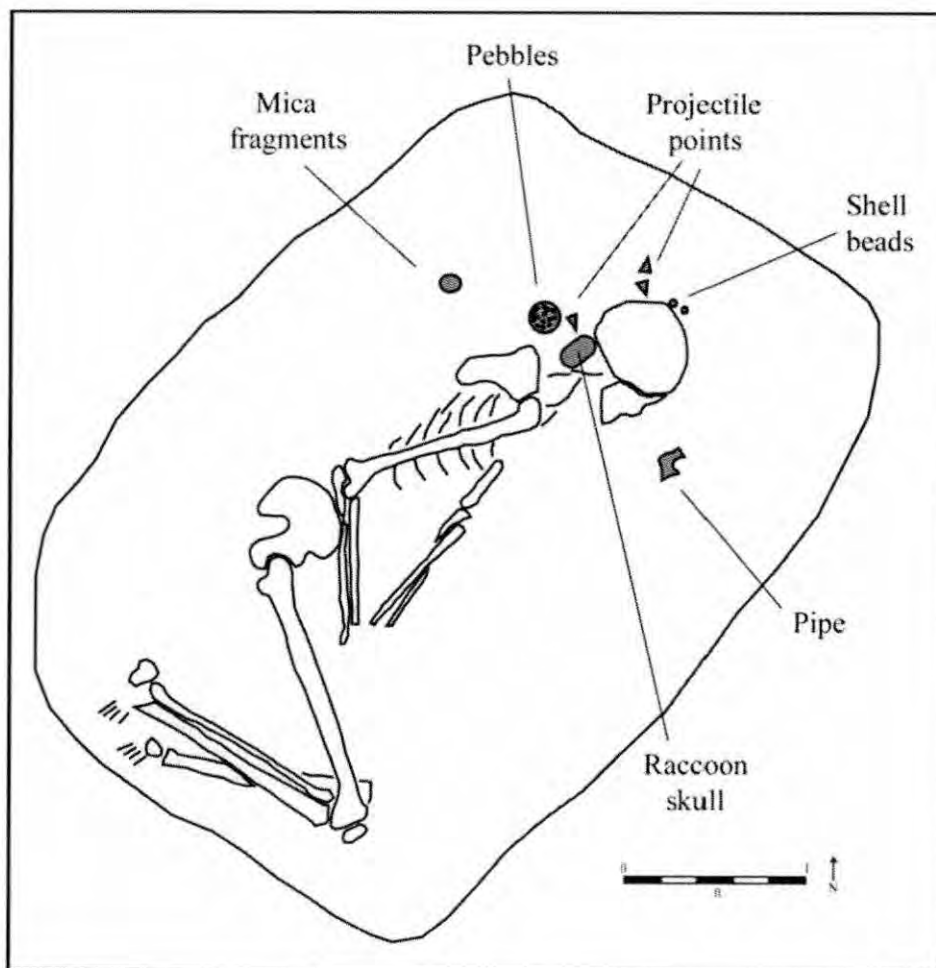
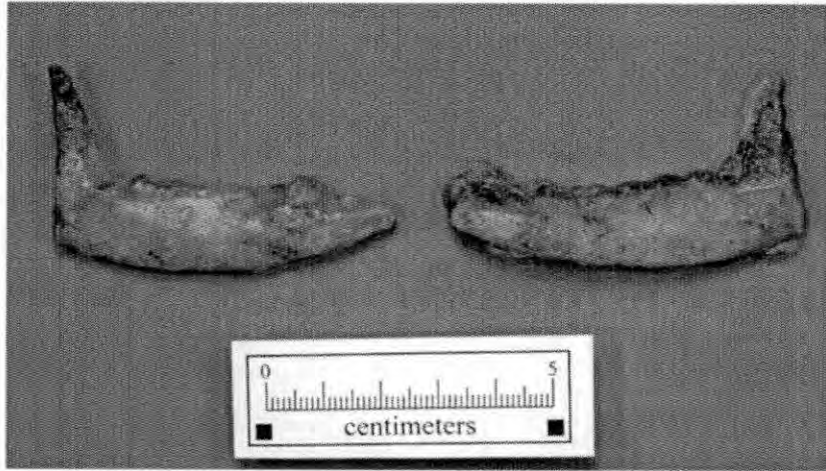
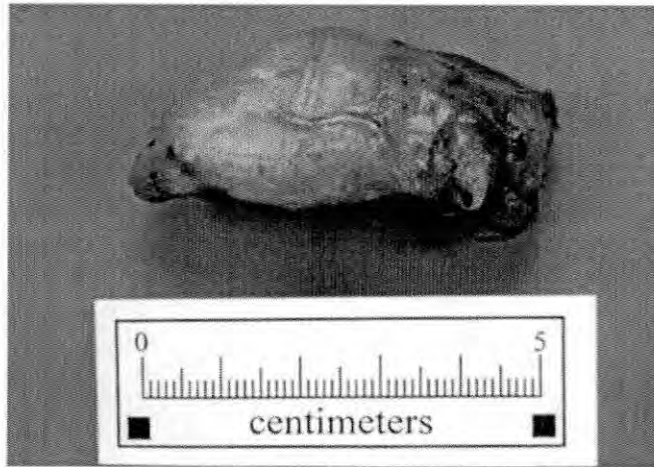


Figure 5.27. Burial 20/Mg3.



a

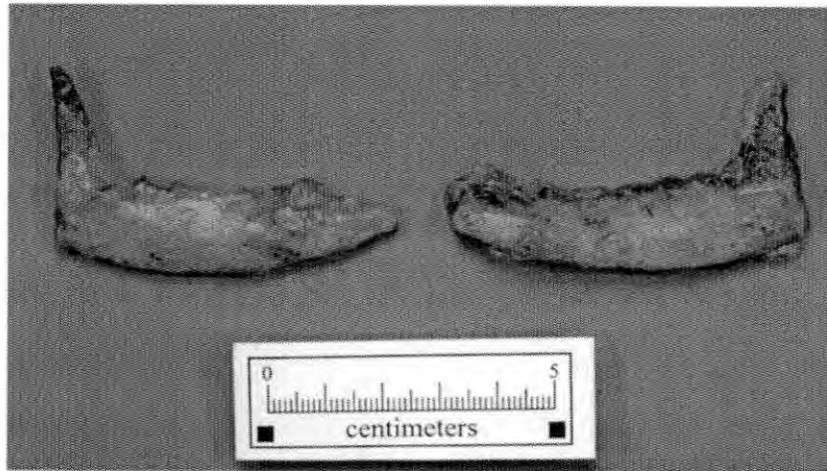


b

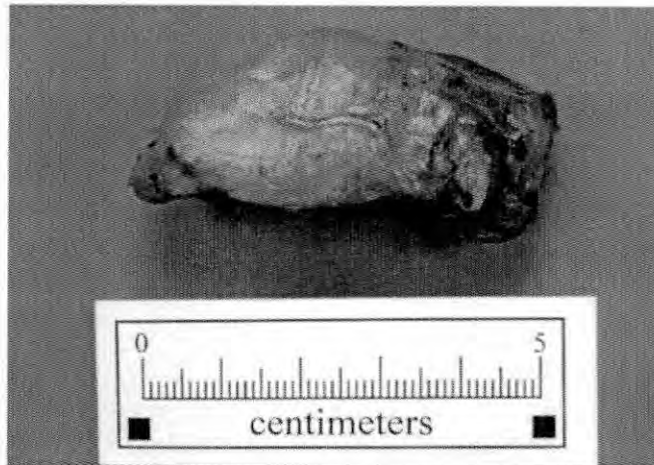


c

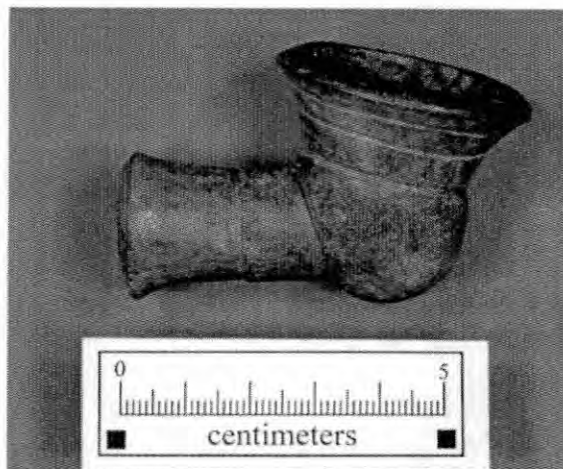
Figure 5.28. Objects associated with Burial 20/Mg3: (a) raccoon jaw (b) raccoon skull (c) clay pipe (Photographs by R. P. Stephen Davis, Jr.).



a



b



c

Figure 5.28. Objects associated with Burial 20/Mg3: (a) raccoon jaw (b) raccoon skull (c) clay pipe (Photographs by R. P. Stephen Davis, Jr.).

Enclosed Circular Structures

Eighty individuals were buried in the two excavated Enclosed Circular Structures. Burials were located in a dense cluster at the center of each structure (Figure 5.29). They were entirely within the inner circular pattern for Structure 7 and mostly within the inner circular pattern for Structure 1. All age-sex categories are represented in Enclosed Circular Structures. This suggests that Enclosed Circular Structures were used by domestic groups, but it seems unlikely that they were houses. The facts that there were possibly four Enclosed Circular Structures, that they have a high density of burials, and that they were enclosed all suggest that these were special-purpose buildings and not typical houses. Instead, as discussed in Chapter 4, it seems that Enclosed Circular Structures began as houses that eventually became enclosed cemeteries.

Most of the individuals in Enclosed Circular Structures were buried in a flexed position (n=45). Urn burials that contained infants were placed near the center of the burial cluster in both structures, seven in Structure 7 and one in Structure 1. Several of these burials also had a bowl inverted over the top of the jar. Similar to Small Circular Structures, both of the Enclosed Circular Structures also contained extended burials. Unlike Small Circular Structures, though, each Enclosed Circular structure contained two individuals buried in an extended position. In each case, one person was buried near the center of the cluster of burials and the other was buried on the periphery. Structure 1 also contained a bundle burial and a disarticulated burial.

Twenty-three of the individuals buried in Enclosed Circular Structures were associated with artifacts. Columella beads were the most common type of artifact. Two children (Burials 109 and 124a/Mg3) in Structure 7 were associated with a number of

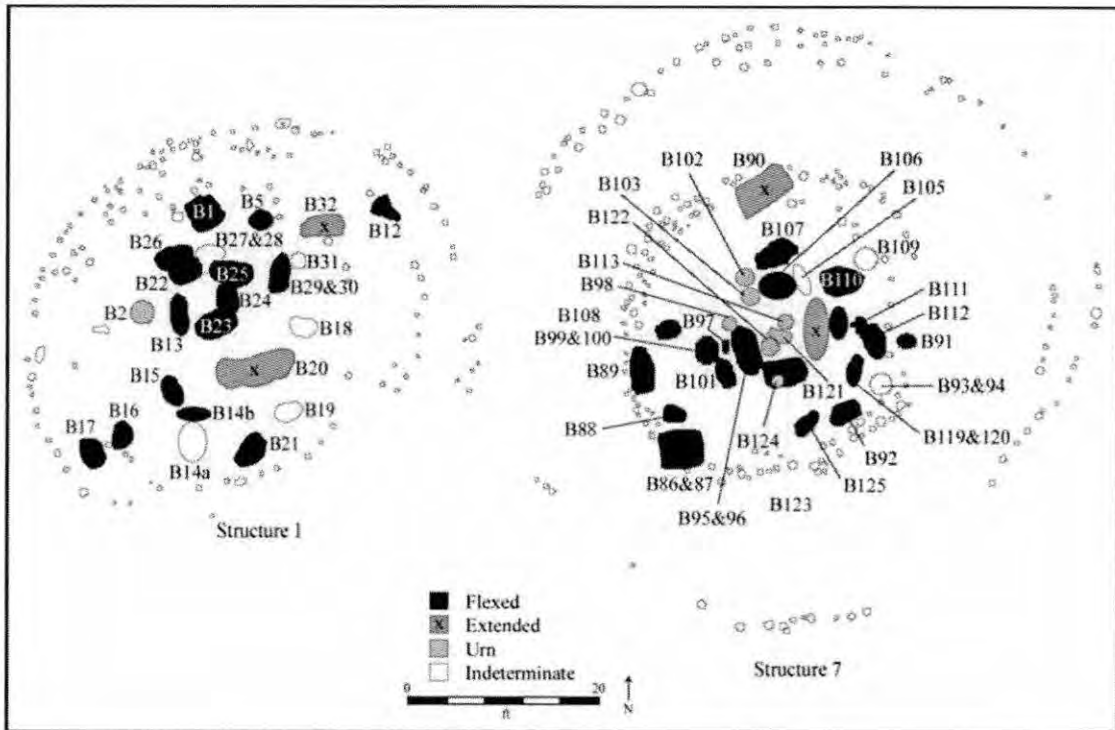


Figure 5.29. Burials in Enclosed Circular Structures.

marginella shell beads (n=63 and 1655) which suggests that they were buried with a beaded garment. Five of the eight urn burials included beads with four individuals having shell beads and one associated with a bone bead. Copper fragments were found with two individuals, the bundle burial of a young adult female (Burial 30/Mg2) in Structure 1 and the flexed burial of an older adult male (Burial 92/Mg3) in Structure 7. Two children (Burials 111 and 118a/Mg3) in Structure 7 were each buried with two conch-shoulder gorgets.

Large Rectangular Structures

Structures 27 and 30b are the only Large Rectangular Structures that were excavated at Town Creek (Figure 5.30). Structure 27 represents the eastern portion of a Large Rectangular Structure located on the northwest side of the plaza. The western part of this structure extends into an unexcavated part of the site. Nine individuals were buried in the eastern part of this structure and their graves are, for the most part, widely spaced across the structure's interior. Two adolescents (Burials 81 and 82/Mg3) were buried in a flexed position in the northeast corner, and a child (Burial 80/Mg3) was buried in a flexed position in the southeast corner. Two burials of young adult females (Burials 61 and 63/Mg3) were located near what was probably the center of the structure. Also near the structure's center was a large, square pit that contained the disarticulated remains of four individuals (Burials 62a, 62b, 62c, and 62d/Mg3)—an adult, a young adult, and two adolescents (Figure 5.31). A deer jaw and a pottery disk in this pit are the only burial associations within this structure.

Four burials were widely spaced across the interior of Structure 30b and another possibly related burial was located just outside of the building. The interior burials were all flexed. They consisted of two older adult females (Burials 11 and 83/Mg3), a young adult

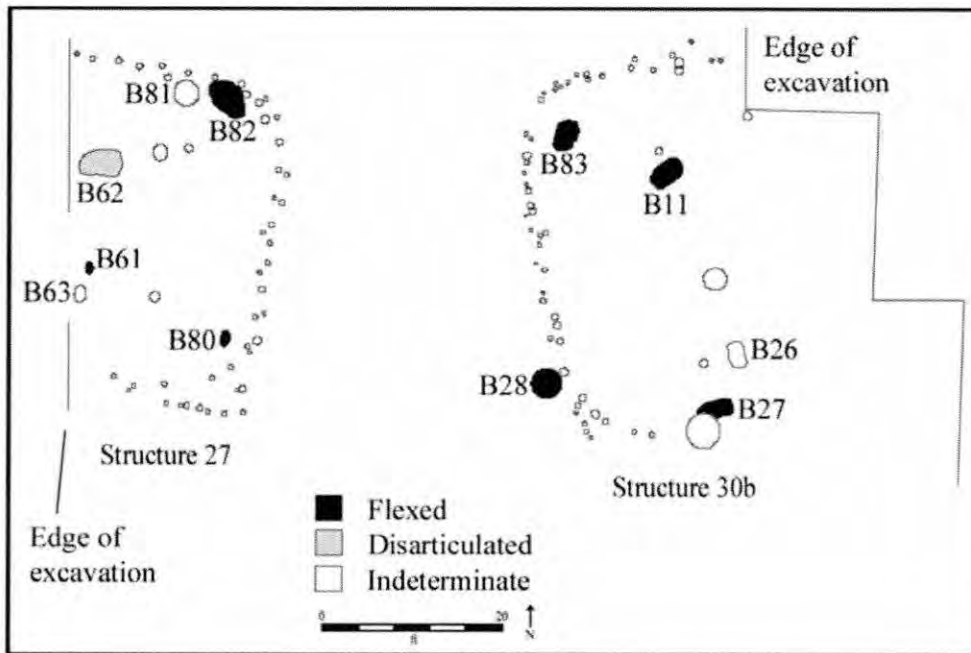


Figure 5.30. Burials in Large Rectangular Structures.

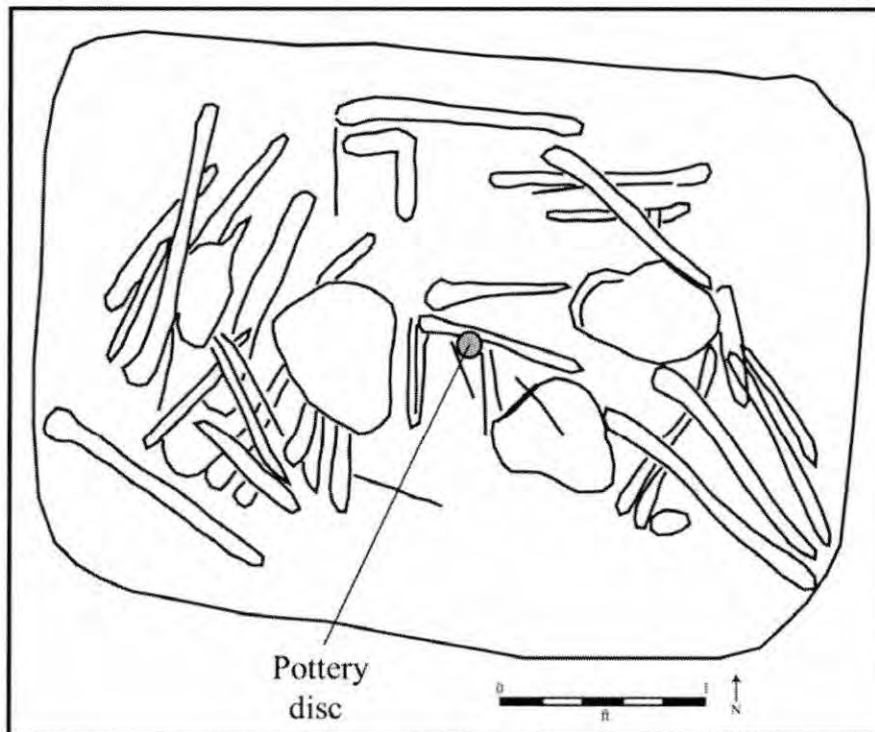


Figure 5.31. Burial 62/Mg3.

female (Burial 26/Mg3), and a young adult of indeterminate sex (Burial 27/Mg3). The only associated artifact was a quartzite pebble with one of the older adult women (Burial 11/Mg3). The exterior burial (Burial 28/Mg3) was a mature adult male in the flexed position who was not buried with any artifacts.

Small Rectangular Structures

Structure 5b is the only Small Rectangular Structure that was associated with burials. Two burials were aligned with the walls of this building (Figure 5.32). One of these was an adolescent (Burial 40/Mg2) and the other was indeterminate (Feature 35/Mg2). Neither was associated with artifacts.

Medium Rectangular Structures

One Medium Rectangular structure (Structure 28), located on the northwest side of the plaza, was excavated. Three burials were located within Structure 28 (Figure 5.33). All of them had been placed in corners of the building. The northwest corner of the building contained the flexed burial of a child (Burial 85/Mg3) and the flexed burial of a mature adult (Burial 84/Mg3) who had been buried with columella beads and a bone awl. The third burial was that of an adolescent in the flexed position (Burial 76/Mg3) who had been placed in the northeast corner.

Caraway Phase

Fourteen Protohistoric burials were found in two amorphous clusters (Burial Clusters 14 and 20) in the southeastern part of the site (Figure 5.34). Thirteen of the Protohistoric

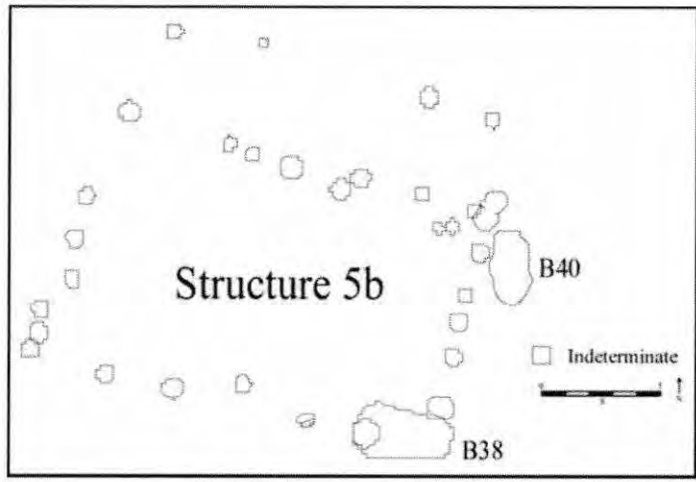


Figure 5.32. Burial associated with Structure 5b.

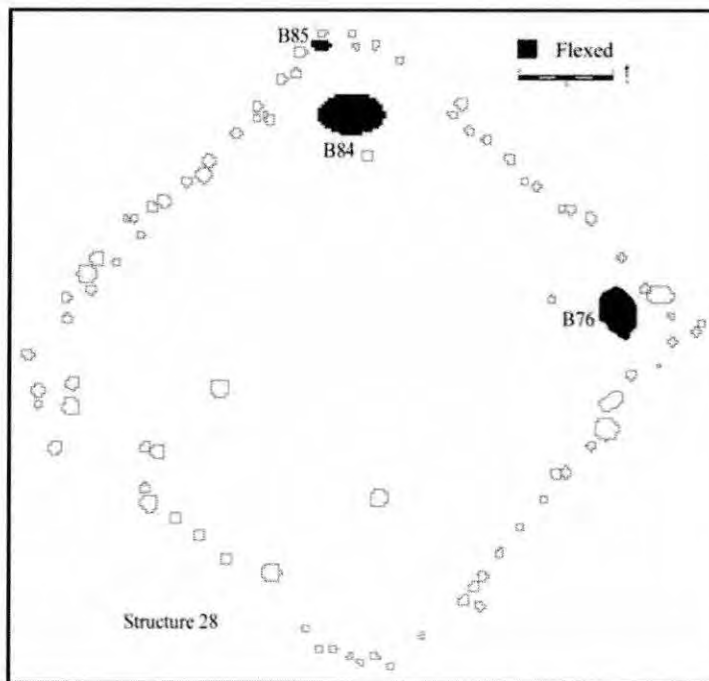


Figure 5.33. Burials associated with Structure 28.

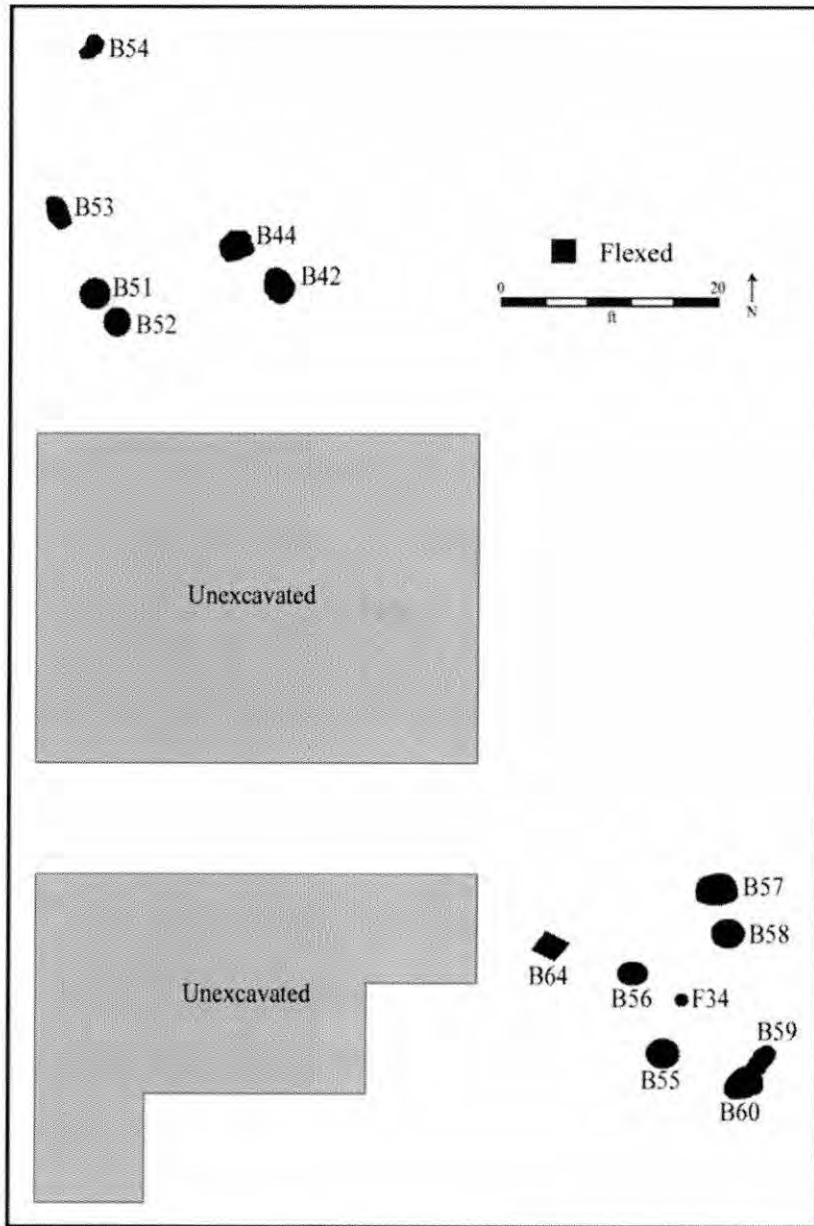
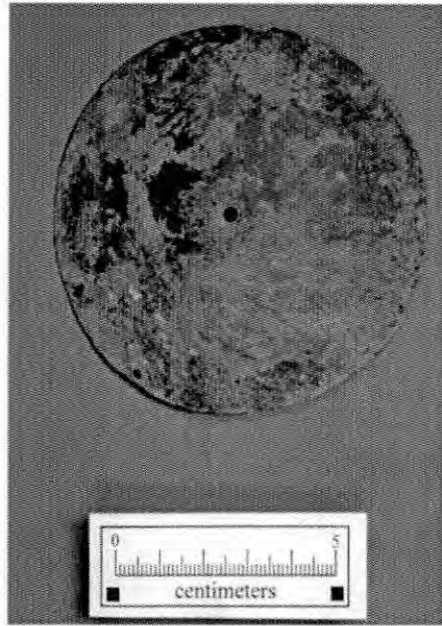


Figure 5.34. Burials in the Caraway-phase burial clusters.

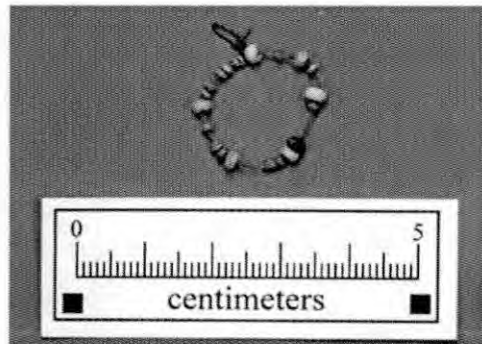
burials were flexed, with the one exception being a poorly preserved skeleton for which a burial position could not be determined. Half of the Protohistoric burials contained grave goods. Burial Cluster 14 consisted of three children, a young adult female, and two older adult females. Four burials in this cluster contained artifacts. One of the older adult females (Burial 44/Mg3) was buried with six columella beads and the young adult female (Burial 42/Mg3) was associated with two olivella shells and a fragment of a ceramic vessel. One of the children was buried with a disk-shaped shell bead and glass beads (Burial 51/Mg3). Another child burial (Burial 52/Mg3) was relatively lavish because it contained a number of disk-shaped shell beads, glass beads, and a centrally perforated circular brass gorget (Figure 5.35). This is an artifact type that has been associated with individuals of high status during the Contact period in Virginia (Potter 1989:162). Burial Cluster 20 consisted of an adolescent, four young adults, and three individuals of indeterminate age and sex. Two of the young adults were male and sex could not be determined for the other two. The adolescent (Burial 58/Mg3) was associated with a copper bead and one of the indeterminate burials (Burial 55/Mg3) contained a glass bead. A young adult burial (Burial 60/Mg3) included mica fragments. The most distinctive Protohistoric burial was that of a young adult male (Burial 57/Mg3) who was buried with six different artifact types. These included a pottery pipe, a stone bead, a scraper, a copper bead, a brass or copper pendant, and a piece of quartz crystal (Figure 5.36).

MORTUARY PATTERNS

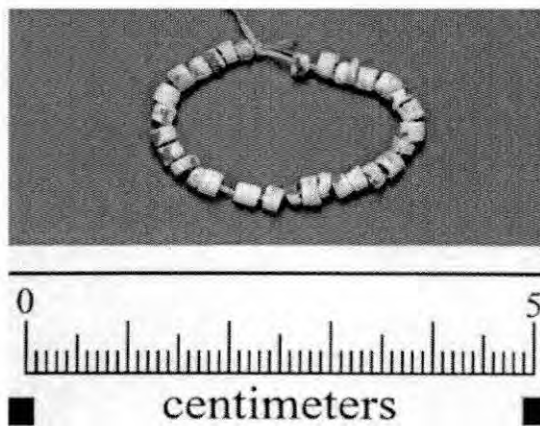
In this section, the mortuary record of Town Creek is examined in regard to burial type, burial position, and demographic profiles associated with individual structures and



a

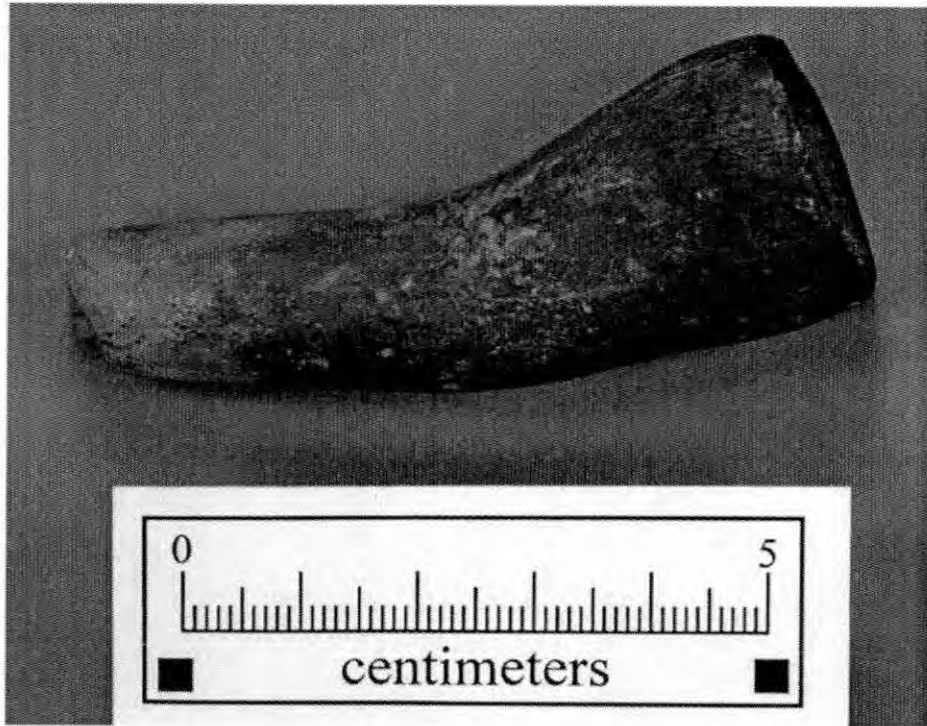


b

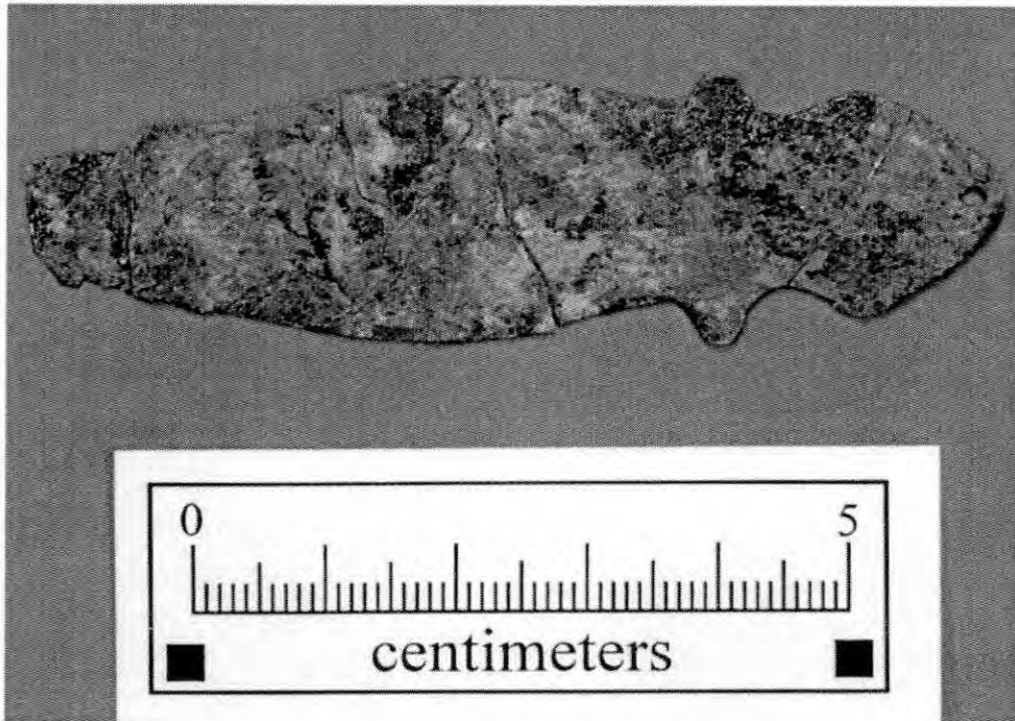


c

Figure 5.35. Artifacts associated with Burial 52/Mg3: (a) brass gorget (b) glass beads (c) shell beads (Photographs by Stephen Davis, Jr.).



a



b

Figure 5.36. Artifacts associated with Burial 57/Mg3: (a) clay pipe (b) brass or copper object (Photographs by R. P. Stephen Davis, Jr.).

structure types. Additionally, demographic profiles, artifact distributions, and the locations of burials are used to explore the expression of community leadership roles and how these might have changed through time.

Demographic Profiles

The demographic profiles of the burials associated with different structures are important because they indicate who used the buildings in life which in turn allows a consideration of the structure's function. One can expect that structures accessible to an entire social group will exhibit demographic profiles in which all age and sex categories are represented. In contrast, the demographic profiles of structures to which access was more restricted should have gaps where individuals of certain age and sex categories are absent. The investigation of structure accessibility and function is a critical step in the process of exploring community organization and change. Once an argument can be made about how individual structures and structure types were used, then differences and changes in the community at Town Creek can be discussed in regard to the functions of and spatial relationships among contemporaneous structures.

Late Woodland

The age profile of Structure 18 suggests that it was a relatively accessible structure with four out of five age classes represented (Figure 5.37). However, the age-sex profile shows that the only adults buried in this structure were males (Figure 5.38). This is a pattern that is distinct from every other structure and burial cluster at Town Creek. Although we know nothing about the community with which Structure 18 was associated, it is clear that

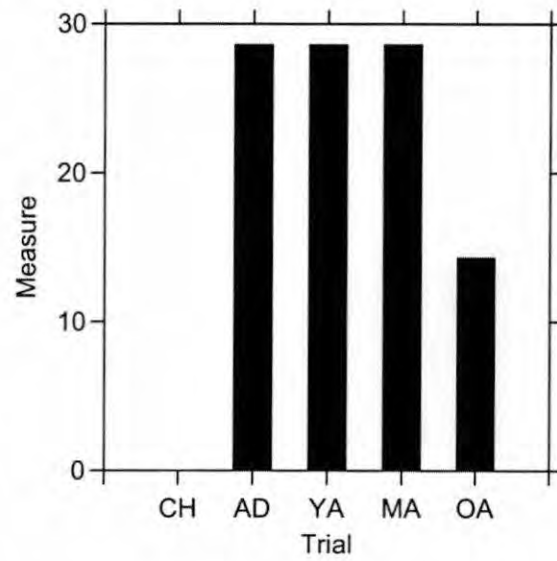


Figure 5.37. Burials by age class (percent) in the Late Woodland Structure 18.

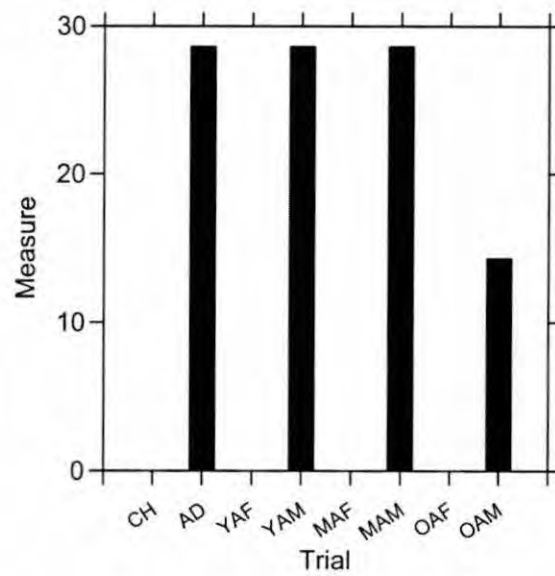


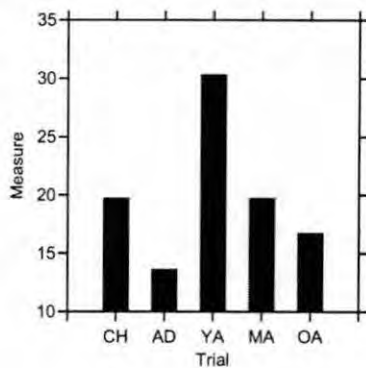
Figure 5.38. Burials by age-sex class (percent) in the Late Woodland Structure 18.

some males in the Late Woodland community located at or near Town Creek were distinguished at death, probably because they occupied a gender-linked status, by being buried within Structure 18. As discussed in chapters 3 and 4, the size of Structure 18 and the presence of a circular arrangement of superimposed features indicates that this was probably not a typical domestic building. It is possible that this was a circular enclosure within which mortuary rituals were performed. These rituals may have involved the repetitive placement of features, including burials, along the interior of the enclosure wall.

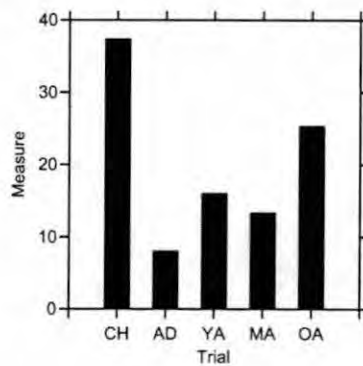
Mississippian

All five age classes and both sexes are represented in Small Circular, Enclosed Circular, and Large Rectangular Structures (Figures 5.39 and 5.40). This suggests that burial within these structures was open to all members of a social group regardless of age. Because there are multiple examples of each of these structure types located at Town Creek, it seems likely that Small Circular, Enclosed Circular, and Large Rectangular Structures were used by kin-based groups, most likely clan-based matrilineages. When both age and sex are considered, Small Circular and Enclosed Circular Structures are the only two types in which all classes are represented. Large Rectangular Structures, in contrast, are less representative which suggests that access to them may have been limited to a subset of the kin-based group.

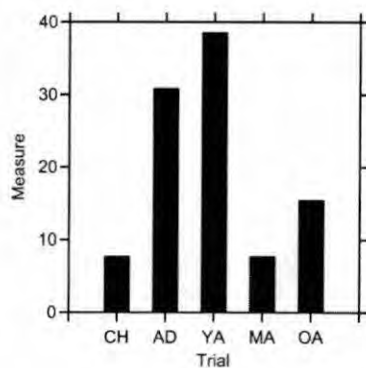
The demographic profiles of public buildings located in submound and mound-summit contexts as well as next to the Little River are less representative than those of other structure types (Figures 5.41 and 5.42). This is consistent with the idea that access to public buildings was limited in some way to a subset of the community. Public buildings, both in the area of the mound and next to the river, exhibited five or fewer age-sex classes. The less



Small Circular Structures

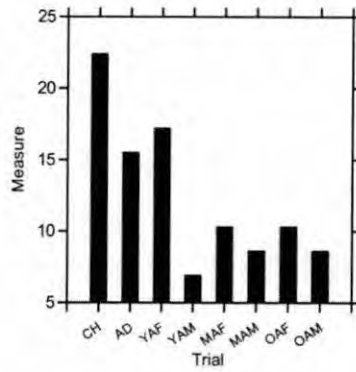


Enclosed Circular Structures

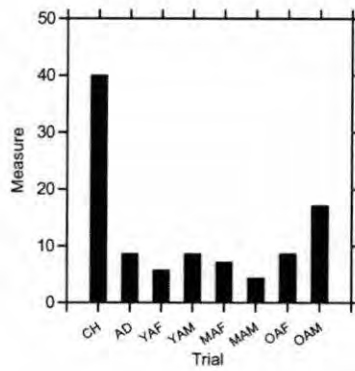


Large Rectangular Structures

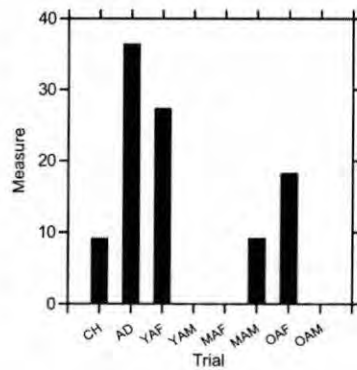
Figure 5.39. Burials by age class (percent) in Small Circular, Enclosed Circular, and Large Rectangular Structures.



Small Circular Structures

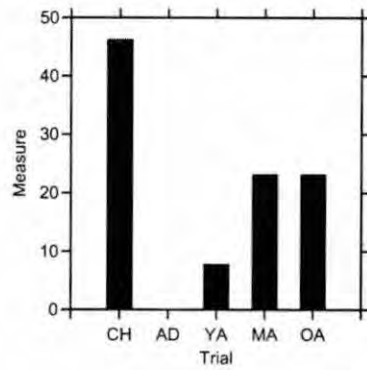


Enclosed Circular Structures

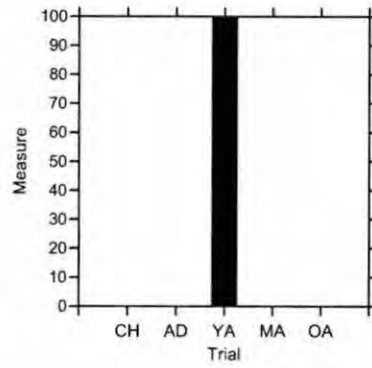


Large Rectangular Structures

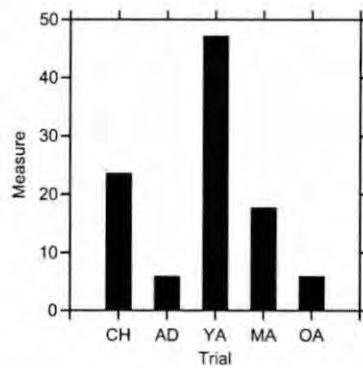
Figure 5.40. Burials by age-sex class (percent) in Small Circular, Enclosed Circular, and Large Rectangular Structures.



Premound Public Structures

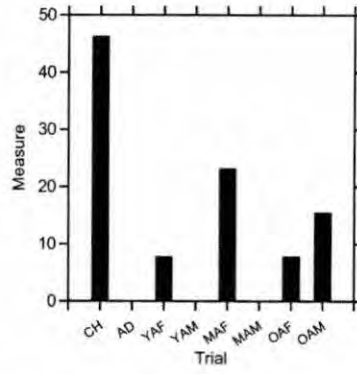


Mound-summit structures.

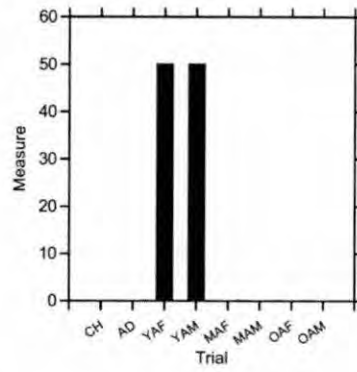


Enclosure 1

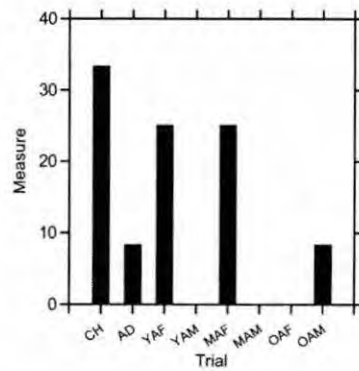
Figure 5.41. Burials by age class (percent) in Premound Public Structures, Mound-summit Structures, and Enclosure 1.



Premound Public Structures



Mound-summit Structures



Enclosure 1

Figure 5.42. Burials by age-sex class (percent) in Premound Public Structures, Mound-summit Structures, and Enclosure 1.

representative nature of the burials in the mound area is consistent with proscriptions about access to public buildings and mound summits that were documented among historic groups (Kenton 1927:427; McWilliams 1988:92; Sattler 1995:220; Waselkov and Braund 1995:102 and 149; Worth 1998:88). The fact that all age and sex categories are not represented in the burials in the public structures next to the river is consistent with the fact that this area was set off by an enclosure, a construction that has been interpreted as a barrier to access in other Mississippian contexts (Blitz 1993a:84; DePratter 1983:118; Holley 1999:29; Larson 1971:59; Payne 1994:223).

Little can be said about the Small Rectangular and Medium Rectangular Structures because only one example of each type was excavated. Individuals from three or fewer age and age-sex classes were found in each building, which suggests that burials within them may have been limited to a subset of a social group. However, one structure from each type is not a representative sample.

Protohistoric

The demographic profile of the Protohistoric burial clusters suggests they represent the remains of domestic groups (Figures 5.43 and 5.44). There is an approximately even representation of males and females. Almost all age classes are present, with mature adults being the only ones absent. However, age and sex could be determined for only a small number of Protohistoric burials.

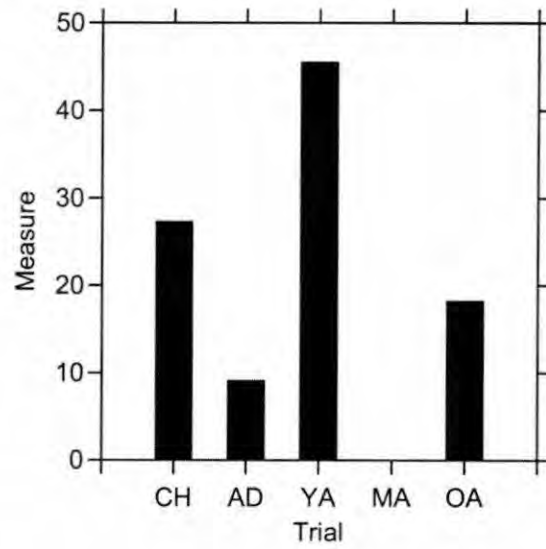


Figure 5.43. Burials by age class (percent) in Protohistoric burial clusters.

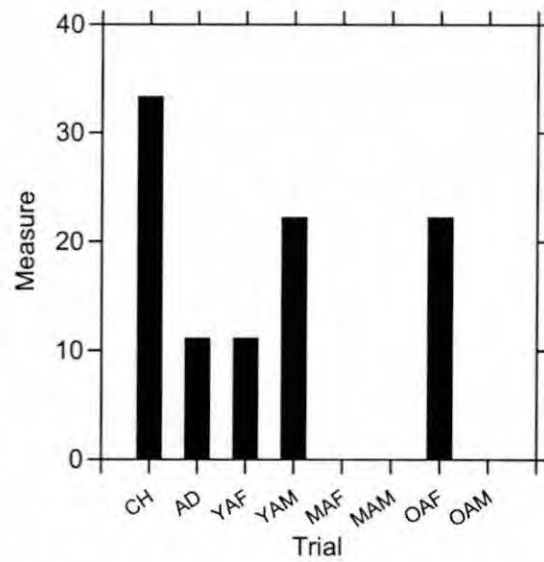


Figure 5.44. Burials by age-sex class (percent) in Protohistoric burial clusters.

Burial Type

The overwhelming majority of burials (n=182) at Town Creek were primary interments. This figure includes all Late Woodland and Protohistoric burials. The few secondary burials were all Mississippian. The disarticulated remains of a mature adult female (Burial 28/Mg2) were placed near the head of the flexed burial of an older adult male (Burial 27/Mg2) within Structure 1. The remains of an infant (Burial 146a/Mg3) were found with an older adult male (Burial 146/Mg3) in Burial Cluster 40 (Figure 5.45). In Burial Cluster 11, an infant (Burial 3/Mg3) and an isolated skull (Burial 4/Mg3) were found near Burial 5/Mg3. In Structure 27, the disarticulated remains of four individuals (Burials 62a, 62b, 62c, and 62d), two adults and two adolescents, were mixed together at the bottom of a large, rectangular pit. It is hard to say much about these few disarticulated individuals. In the case of Structure 1 and Burial Clusters 11 and 40, it is possible that the disarticulated individuals were earlier burials that were disturbed during the interment of the primary burials and the former were reburied with the latter. Alternatively, it is possible that the disarticulated burials had been processed after death and intentionally placed with the primary burials. There is no ambiguity to the situation in Structure 27, however, where the disarticulated remains of at least four individuals were found at the bottom of a large pit. Based on Structure 27, it could have been that the activities which took place in Large Rectangular Structures included rituals involving the manipulation of skeletal remains and/or their reburial.

Five bundle burials were located across the site. One was the burial of a mature adult female that was located in the pre mound public building Structure 4a. The other four came from Leak-phase contexts. One was a young adult located in Burial Cluster 21 in the

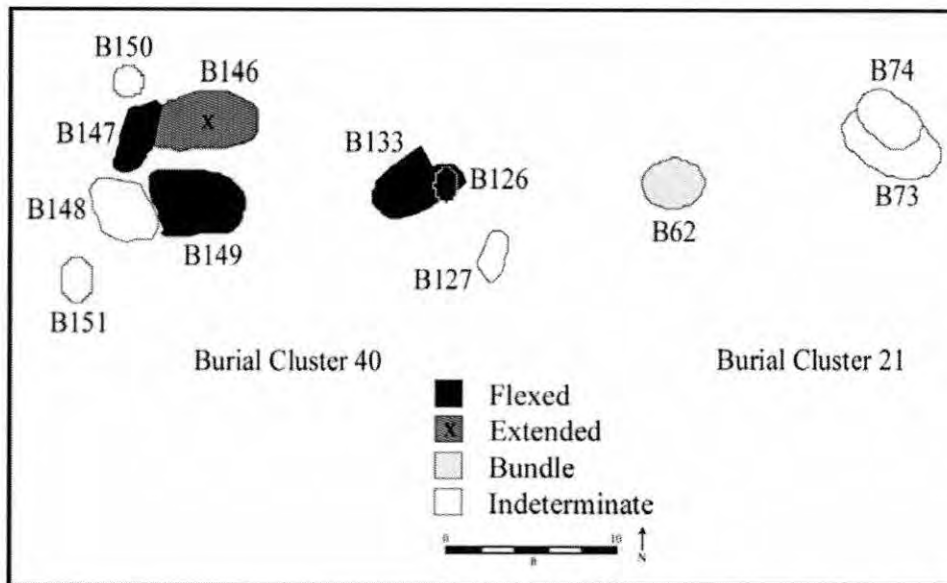


Figure 5.45. Burial Clusters 40 and 21.

northeastern part of the site (Figure 5.45). Two bundle burials were located in Structures 46a and 46b, the two structures on the uppermost intact mound summit. Both of these burials were of young adults, one of which was female. This is different from the two structures (Structures 45a and 45b) on the preceding mound summit which contained only primary interments. This could represent a change in the mortuary ritual associated with mound-summit burials where earlier summit burials were primary interments and later ones were subjected to postmortem processing and then reburied as a skeletonized bundle.

Alternatively, it is possible that this apparent pattern of change is an artifact of the excavations. Although the burials on the mound were attributed to different summits, it could have been that the excavators were not able to accurately attribute burials to either of the two superimposed summits. Earthen mounds are complex to excavate stratigraphically because they consist of a number of different fills. At Town Creek, sorting out the stratigraphy would have been further complicated by the fact that the previously disturbed mound was excavated by an unskilled labor force. Thus, it may be better to think of the summit burials as a single group. The features located on the two summits when considered together include empty pits, primary burials, and secondary burials. This assemblage of features may represent a mortuary program in which individuals were interred on the summit and exhumed after the remains had become skeletonized. These remains were possibly stored for a period of time in above-ground containers such as a box or a basket and then reinterred as a bundle in the structure floor (see Brown 1971:105).

The burial of infants in urns occurred in Small Circular and Enclosed Circular Structures. Urn burials are absent in clearly public spaces such as the submound and mound-summit public buildings as well as in contexts associated with Enclosure 1 and Structure 51

next to the river. This indicates that placing children in urns was an important part of household and kin group mortuary rituals, but was not a part of rituals that took place in public buildings. The absence of urn burials in Large Rectangular Structures is consistent with the idea that these were public structures that were possibly associated with individual kin groups.

Burial Position

It is difficult to determine the status signified by the extended burial position. Nine of the 13 extended burials were in circular structures, two in burial clusters, and two in the pre-mound public building Structure 4a. With the exception of two children, one child each in Structures 4a and 7, all of the individuals buried in the extended position were adults. There are two indications that the extended burial position marks an important status. First, only one or, in the case of both Enclosed Circular Structures and Structure 4a, two individuals per structure or Burial Cluster were treated in this way. Second, extended burials were generally placed in a central location within an architectural element. Whatever the status may have been, it does not seem to have been determined by sex because three of the individuals in circular structures are men and six are women, with one being indeterminate. The 10 adult burials represent all three stages of adulthood. Nine out of the 10 extended burials possibly could have been 30 years or older at the time of death. The one exception is Burial 141/Mg3 in Structure 6 who was a female between 15 and 19 years old. Thus, nearly all of the individuals buried in the extended position were at least 30 years old at the time of death. Whatever this status may have been, it was signified by burial position and location, but not durable objects; only three of the 10 extended adult burials had artifacts.

Interestingly, two of these (Burials 37 and 50/Mg3) had some of the most unusual artifacts at the site, including polished columella beads, a copper axe, shell ear pins, and a copper-covered wooden ear spool.

The presence of no more than one extended adult burial in each Small Circular Structure, burial cluster, and Structure 4a suggests that only one adult throughout the use life of the structure or burial space could occupy the particular role manifested by this burial position. If Small Circular Structures were used and rebuilt in place for 20 to 30 years, as may have been the case with structures at other Mississippian sites (see Hally 2002:91), then perhaps one person in a generation occupied the role signified by an extended burial position. The distribution of extended burials across the site may indicate that the status marked by this burial position existed in many of the social groups that constituted the Mississippian community at Town Creek, perhaps in each household or matrilineage. It is possible that the extended burials in Small Circular Structures and burial clusters are those of senior lineage members. In the case of Enclosed Circular Structures, two individuals within each structure were distinguished through burial in an extended position. I have argued that Enclosed Circular Structures probably began as Small Circular Structures that were encircled with an enclosure and used as a cemetery later in time. If the status signified by the extended burial position was filled by one person per generation in each group, then the presence of two extended burials in each of the Enclosed Circular Structures would be consistent with their use for a longer period of time than Small Circular Structures.

Community Leadership Roles: Non-Mississippian Contexts

Structure 18 is the only Late Woodland structure that has been identified at Town Creek. One mature adult male within this structure was distinct because he was buried with two stone pipes and a stone object carved in the form of a human face. These artifacts suggest that he was a ritual practitioner, a person who possessed the knowledge and objects necessary for the performance of rituals. Smoking was part of ceremonial and ritual activities among Historic-period groups (Hudson 1976:318), and pipes have been an important element of ritual paraphernalia in the Eastern Woodlands for thousands of years (Brown 1997:472-473). Also, it is not hard to imagine that the carved stone face was a ritual object. The presence of a distinctive burial in a mortuary structure is consistent with this person having been a community leader, although this cannot be tested through comparisons with contemporaneous domestic structures.

Within the Caraway-phase burials, a young adult male was distinct because he was buried with six artifact types (Figure 5.46). Two of these objects, a pottery pipe and a piece of quartz crystal, suggest that this man may have played a prominent role in rituals. Pipes were an important ritual artifact in the Southeast (Brown 1997:472) and quartz crystals were powerful objects that were associated with conjuring as well as success in hunting and warfare among historic groups (Brown 1997:473; Hudson 1976:166-169). Thus, this man who had the highest NAT value among Caraway-phase burials, which suggests that he may have been a community leader (see Howell 1995:129, 1996:63; Kintigh 2000:104), appears to have been a ritual practitioner as well. As with the Late Woodland burials, though, the assessment of this individual as a community leader would be more compelling if comparisons could be made among multiple contemporaneous contexts.

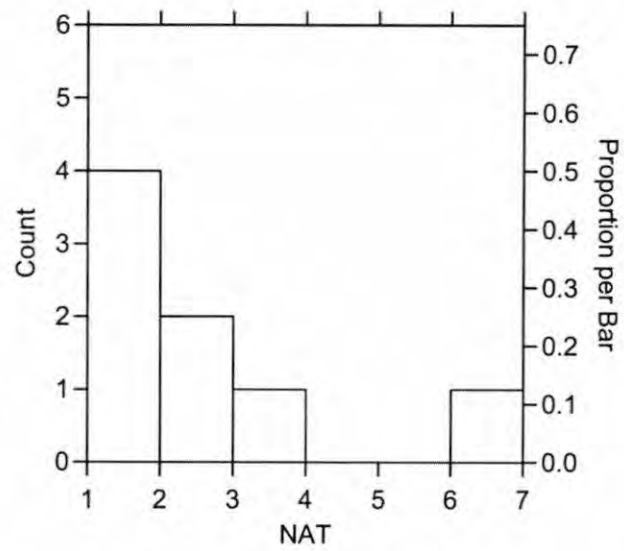


Figure 5.46. Histogram of NAT for Protohistoric burials with grave goods.

Mississippian Contexts

In this section, evidence is discussed pertaining to the manifestation of leadership roles in the Mississippian mortuary record and how these roles changed during this period. Change will be explored by comparing pre-mound-construction and post-mound-construction contexts. The pre-mound data come from the early Town Creek-phase sub-mound, public buildings and Small Circular Structures. Post-mound data come from late Town Creek and Leak-phase contexts; the mound-summit structures, Enclosed Circular Structures, Large Rectangular Structures, Small Rectangular Structures, and contexts located within Enclosure 1. While Enclosed Circular Structures are problematic because they appear to be essentially Small Circular Structures that were used later as cemeteries and their burial populations may represent a palimpsest of phases, Enclosed Circular Structures will be considered as part of the post-mound sample for comparative purposes because the ultimate use of these structures—as indicated by pottery and their distribution relative to Large Rectangular Structures—occurred after the mound was in use.

Premound Mortuary Data.

The mortuary data attributed to the pre-mound Mississippian occupation of Town Creek date to the early Town Creek phase. The earliest Mississippian public buildings at Town Creek were a large, rectangular structure (Structure 4a) and a small, square structure (Structure 24) oriented the same way and located next to each other on the western edge of the plaza (Figure 5.47). Structure 4a was associated with the burials of at least three and possibly four adult women and one adolescent. The exclusive association of adult women with a public building and the absence of adult men is an uncommon situation in the

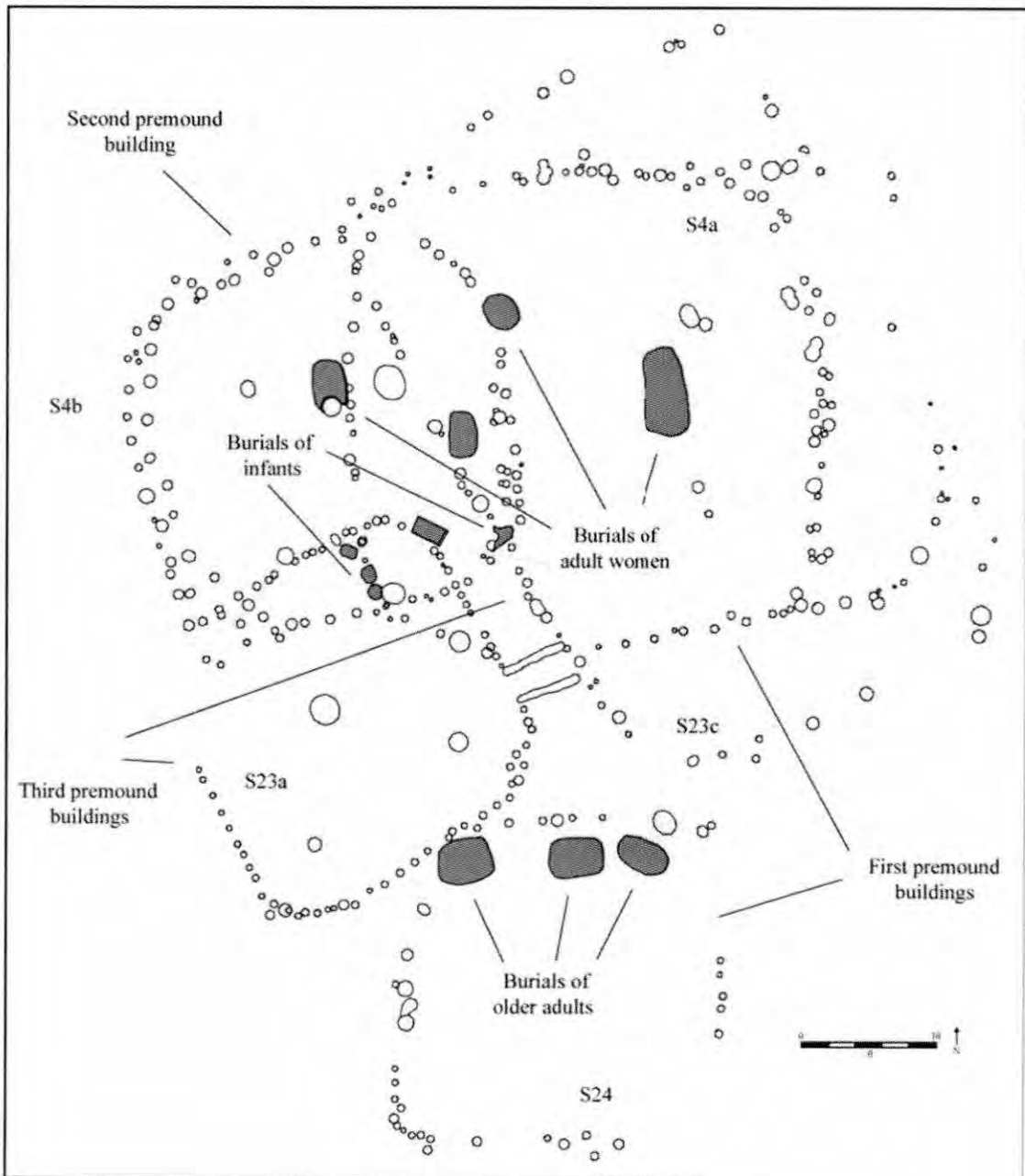


Figure 5.47. Submound public buildings and associated burials.

Mississippian world (Sullivan 2001:110). It is not what one would expect from reading the ethnohistoric record in which men predominantly and in some communities exclusively met in councils to make political decisions (Braund 1999:145; Lefler 1967:49; Sattler 1995:220; Speck 1979:120; Waselkov and Braund 1995:62, 105, and 149; Worth 1998:88 and 94). Indeed, it is a very different pattern from what has been observed archaeologically at other Southeastern sites. At the late Mississippian and protohistoric Qualla phase Coweeta Creek site in western North Carolina, Rodning (1999:12, 2001:94-97) has documented a pattern in which men were overwhelmingly associated with public buildings while women were associated with domestic ones.

If males generally were the preferred leaders in Mississippian and historic period communities (see Worth 1998:88), why are only women interred in one of the early Town Creek-phase public buildings? Ethnohistoric accounts clearly indicate that women played prominent social and political roles in many native communities. Although not common, women could be political leaders (Clayton et al. 1993:278; Worth 1998:86). Even if they did not occupy a formal political role, there is ample evidence that women as clan and lineage leaders could influence the male-dominated realms of warfare and politics (Perdue 1998:52; Sattler 1995:222). Additionally, it was through female ancestors that kin-group membership was determined among most Southeastern Indians. Being a member of a kin group was essential to participating in community life because kin groups—in the form of clans and local lineages—were directly associated with rights and obligations within the community (Hudson 1976:189; Knight 1990:6 and 10; Perdue 1998:24, 46, and 47). The fact that access to community life was determined by kinship through women is clearly demonstrated by the practice of adoption in which it was women who decided if prisoners would be killed to

atone for the deaths of clan members or adopted to replace a member and given full rights within the clan (Perdue 1998:53-54; Sattler 1995:222). Clearly, participation in society was made possible by one's membership in a lineage through a relationship, either natal or adoptive, with a woman (Perdue 1998:54). Thus, women must have held a great deal of power and influence in native communities because they provided access to the kin-groups which constituted much of the social and political structure of these communities.

The exclusive presence of adult females in one of the early Town Creek-phase public buildings at Town Creek could indicate that women were political leaders at this time. Their political power probably was related to the fact that it was through women that kin group membership and the ability to participate within the community was conferred. The presence in a public building of only adult females may reflect the importance of kinship and clan or lineage leadership to participation in the political process within the early Town Creek-phase community.

Another early Town Creek-phase public building (Structure 24), which was contemporary with the one associated with the adult females, contained only older adults—all three of which were at least 35 years or older at the time of death. Two of these individuals are males and the other is a female. The association of older adults with a public building is consistent with observations about Southeastern societies in the ethnohistoric record. Older individuals, especially those who had distinguished themselves through their achievements, were esteemed in native communities (Gearing 1958:1149; Lefler 1967:43; Sattler 1995:225; Waselkov and Braund 1995:118). A recurrent feature of political organization among historic groups was a council of older adults, primarily men, that advised the chief (Hudson 1976:225; Muller 1997:83). The presence at Town Creek of a public

building with only older adults during the early Town Creek phase indicates that older individuals were esteemed at a community-wide level and that these individuals probably participated in the political process at this time.

The distribution of early Town Creek-phase adult burials by NAT is continuous (Figure 5.48). Assuming that there was a correlation between the number of artifact types interred with a person and the number of different roles they played within the community, then there are no individuals that clearly stand out as potential community leaders based on NAT. A slightly higher percentage of the burials in premonument public buildings during the early Town Creek phase were associated with artifacts than were those in domestic contexts⁶ (Figure 5.49). If burial goods marked some status held or role played by an individual during life, the fact that individuals placed in public buildings were more likely to have associated artifacts than individuals placed in the village is consistent with the former having played more prominent roles in the community than the latter.

It is interesting that the individuals buried in the early Town Creek-phase public structures are not distinguished by either the quality or quantity of their associated artifacts. The one exception, an older adult male, was buried with a tool that is similar to the ceremonial scratchers that were used during the historic period (Coe 1995:240), indicating that this person may have been a ritual practitioner (see Hudson 1976:415-416; Swanton 1979:564). Interestingly, there was an association in some historic communities between ritual blood-letting with scratchers and leadership (Lefler 1967:49; Speck 1979:121; Waselkov and Braund 1995:71). Also, bone tools that may have been used for bloodletting or tattooing have been associated with high-status males at Koger's Island, a late fourteenth or early fifteenth-century Mississippian cemetery in the Tennessee Valley of North Alabama

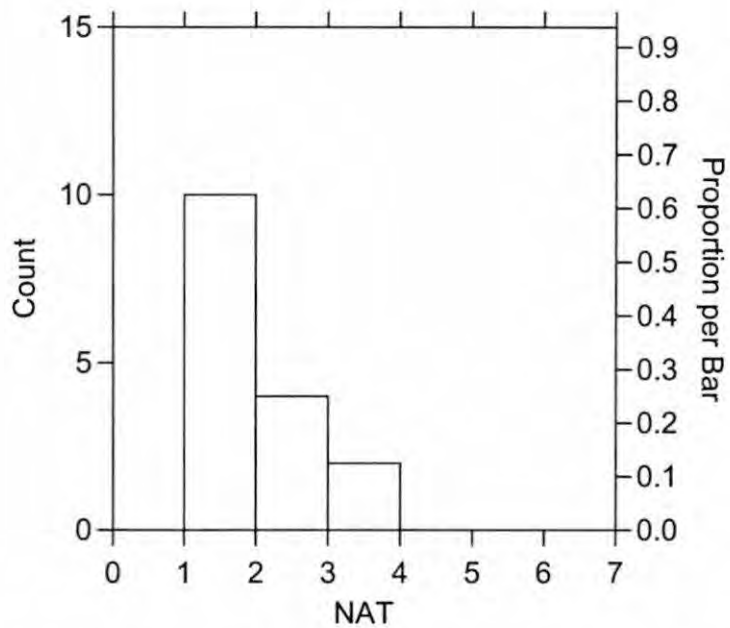


Figure 5.48. Histogram of NAT for early Town Creek-phase burials with grave goods.

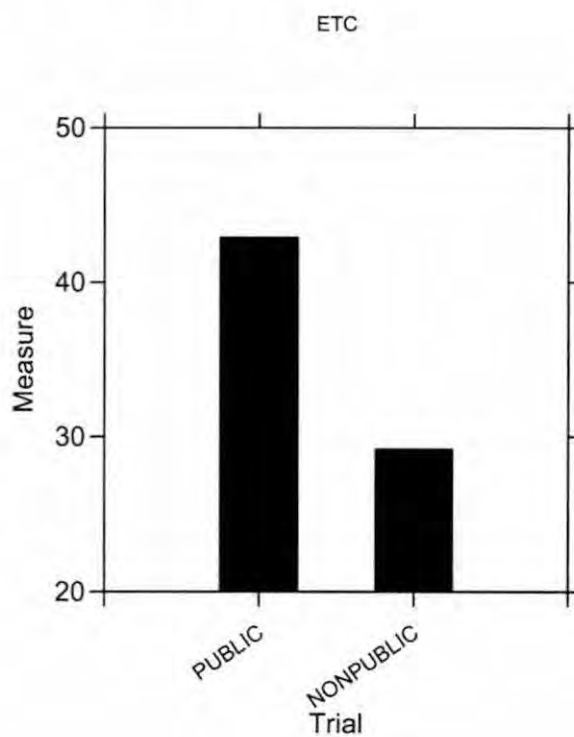


Figure 5.49. Bar chart of percentage of early Town Creek-phase burials with grave goods in public and nonpublic contexts.

(Dye 2000:8). Additionally, observations by Bartram (Waselkov and Braund 1995:122 and 144) suggest that tattooing may have been related to status in some Southeastern groups during the late eighteenth century.

Generally, it is the placement of some early Town Creek-phase individuals within public buildings, rather than their grave accompaniments, that is most distinctive. This resembles historic Cherokee communities in which burials of community leaders are distinguished only by their placement in the vicinity of the townhouse (Sullivan 1995:117). In contrast, there is an older adult male (Burial 50/Mg3) in the early Town Creek phase-village who was buried with a copper axe, the only such artifact at Town Creek. This type of artifact is distinctive in Mississippian contexts because it is generally associated with mound burials in conjunction with other unusual artifacts that are often made from exotic materials (Brain and Phillips 1996:362). Copper axes have been interpreted as symbols of political authority at other Mississippian sites (Brain and Phillips 1996:362; Fox 2004; Peebles 1971:82; Scarry 1992:178-179). If this was also the case at Town Creek, then the most likely candidate for a political leader in the early Town Creek-phase community based on artifacts was not buried in a public building, but was instead interred in what appears to be a typical house.

The patterns from Town Creek as well as the ethnohistoric and archaeological observations discussed previously allow for some speculations regarding the political organization of the early Town Creek-phase community. For lack of a better term, the overall political organization of the early Town Creek-phase community seems relatively diffuse, spread among many individuals and multiple social groups. The association of adult women with one public building and older adults with another implies that both groups

participated in the political process and that they did so in complementary ways. If the political power of the adult women was based on their role as clan or lineage leaders, then the inclusion of these women in a public building may reflect their status as representatives of these kin groups. If the older adults represent a group of esteemed individuals that served as a council, then it seems that one could also participate in the political process based on lifetime achievements. The representation of all three adult age classes in pre-mound public buildings indicates that the political process involved individuals from all stages of adulthood. Early Town Creek-phase public contexts contain an equal representation of mature adults and older adults while young adults are the least well-represented. This seems to indicate that adults in the latter two stages of their lives were preferred for positions of leadership during the early Town Creek phase. The extended burial position of one of the adult women in an early Town Creek-phase public building may also speak to a relationship between kinship and politics. The overall distribution of extended burials and their location near the center of circular structures indicates that individuals buried in this way were distinctive within their kin groups. If the extended burial position signifies some important status based on kinship, then the presence of an extended burial in an early Town Creek-phase public building may indicate the importance of kinship, perhaps as the leader of a preeminent kin group, within the leadership process at this time. It may have been that in addition to lifetime achievements, the representation of kin groups was an important element of the early Town Creek-phase political process.

The fact that the individual who most likely was a community leader, based on artifacts, was buried in a house rather than a public building implies an egalitarian nature to the political organization, one in which the community leader's political role was equal or

even subservient to their role within their own household. Perhaps a formal, institutionalized role of community-wide political leader did not exist at this time. The fact that this individual was an older adult speaks to the relationship between lifetime achievement and leadership during the early Town Creek phase.

Postmound Mortuary Data

The mortuary data attributed to the postmound Mississippian occupation of Town Creek date to the late Town Creek and Leak phases.⁷ An examination of the people buried in public buildings during the late Town Creek-Leak phases suggests a very different political situation than that of the premound community. Only young adults were buried on the mound summit. This pattern contrasts with premound public buildings where young adults represented the lowest percentage of any age category. If the mound was the locus of political decision-making within the community, then the exclusive presence of young adults in summit buildings indicates a change in the nature of leadership that followed the construction of the mound. It appears that after the mound was built, leaders were drawn from a different, more restricted subset of the adult population. While lifetime achievement may have been an important factor affecting leadership status prior to mound construction, it is possible that leadership following mound construction was closely linked to current or recent achievement with individuals being eligible for such positions during a period of their lives when they would have been heavily involved in the community's economy, politics, social life, and military defense.

Only two of the five individuals buried on the mound summit could be classified according to sex.⁸ Thus, the following discussion is more hypothetical regarding Town

Creek than I would like. It is possible that men buried in the mound were those individuals with the appropriate genealogy (i.e., members of the clan or lineage from which leaders were chosen) (Blitz 1993a:12; Knight 1990:17) who had differentiated themselves through their ability. Young adulthood for males was the time when they were most likely to distinguish themselves in warfare or politics (Sullivan 2001:124). The presence of young adult females is more perplexing, though, because the avenues available for women to enhance their status through achievement likely were open during the later stages of life rather than during early adulthood (Sullivan 2001:120). These could have been women who were buried in the mound because they were from the appropriate kin group and were only coincidentally young adult women (see Sullivan 2001:124).

One of the major differences thought to have existed between the political organization of Mississippian and other societies in the Southeast is a transition from informal leadership positions, which were based primarily on the charisma and ability of a singular individual who built and maintained a following, to a formally defined office of leadership, which existed independently of any one person (Scarry 1996:4; Steponaitis 1986:983). The absence of individuals from age categories other than young adult implies that the status of community leader may not have been held for life following mound construction. Perhaps political leaders gave way to younger rivals at some point and it was only those individuals that died while occupying the status of leader that were eligible for mound burial (cf., Driscoll 2002:25-26). This is consistent with the idea that an office of “community leader” existed at Town Creek after the mound was built.

It was after the mound was built that political leaders became more distinctive based on where and with what they were buried. All adults during the early Town Creek phase had

a NAT value of three or less. Most adults during the late Town Creek-Leak phases also had a NAT value of three or less, but there were two males buried with six artifact types each that were distinct from all of the others (Figure 5.50). Thus, the postmound pattern seems to have been largely the same as the premound pattern with the critical difference being the addition of two outliers. Assuming that artifact types placed in a burial represent a role played by the individual during life, then the two individuals with the highest NAT values may represent late Town Creek-Leak-phase community leaders (see Howell 1995:129, 1996:63; Kintigh 2000:104). This idea is supported by the fact that these two individuals were buried in public spaces, perhaps two of the most exceptional locations in the postmound-construction community (Figure 5.51). One of these individuals was buried on the mound summit (Burial 59/Mg2) and the other was placed at the center of the rectangular enclosure across the plaza (Burial 20/Mg3). The location of these two burials and the variety of their associated artifacts shows a marked change from the early Town Creek-phase pattern in which no individuals were distinguished by their NAT values and in which the individual most likely to represent a community leader based on artifacts was buried in a house rather than a public building. The higher NAT value could mean that leaders were occupying more roles in the community following mound construction. Also, their placement in public places, which implies an association with the whole community, rather than in their houses, which implies a primary association with their own families, is consistent with the idea that following mound construction leadership was more of an office connected with the political institutions of the town rather than something based solely on the abilities of a singular individual who still had strong ties to his own kin group.

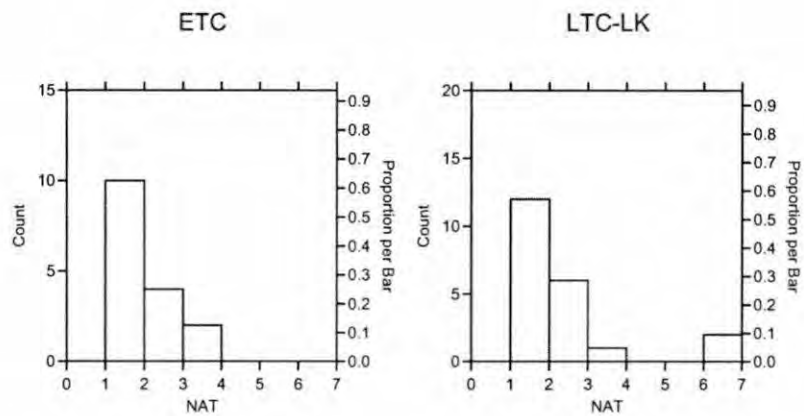


Figure 5.50. Histograms of NAT for early Town Creek and late Town Creek-Leak-phase burials with grave goods.

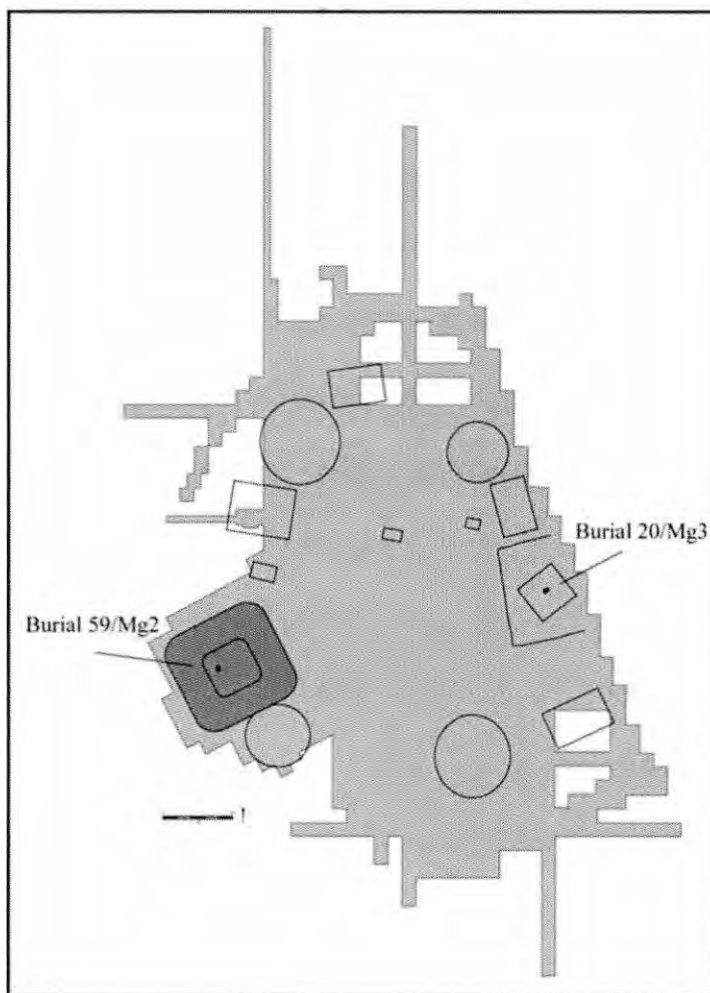


Figure 5.51. Location of the two late Town Creek-Leak-phase burials with the highest NAT values.

Kinship may have been the dominant organizational principle of the early Town Creek-phase community at Town Creek. The placement of burials in the floors of houses shows that individuals were kept with their kin group even in death. The predominance of adult women in public buildings and the burial of a community leader in a domestic building is consistent with the importance of kinship. Kinship continued to be important after the construction of the mound. Family cemeteries that began in earlier stages were maintained throughout the late Town Creek-Leak phases. However, it seems that there was an additional organizational principle at work during this time, one in which certain individuals were recognized as being first and foremost community leaders and one in which public spaces were at least partially associated with community leaders rather than used as displays of the importance of kinship and lifetime achievement.

Another change with the use of public space following mound construction has to do with the concentration of unusual artifacts within the two primary public spaces—the mound summit and the rectangular enclosure next to the river. The individuals buried in pre-mound public buildings were mostly indistinguishable with regard to the kinds and quantities of artifacts with which they were associated. There were several notable changes that followed mound construction. One change, as discussed previously, is that the two individuals with the highest NAT values were located in public spaces. A second change has to do with the percentage of burials that contained grave goods. The percentage of burials with grave goods in public spaces during the late Town Creek-Leak phases was much higher than in both earlier public space burials and contemporaneous village burials (Figure 5.52). If grave goods can be seen as markers of roles occupied by individuals in life, then the higher percentage of public-space burials with grave goods in postmound-construction contexts

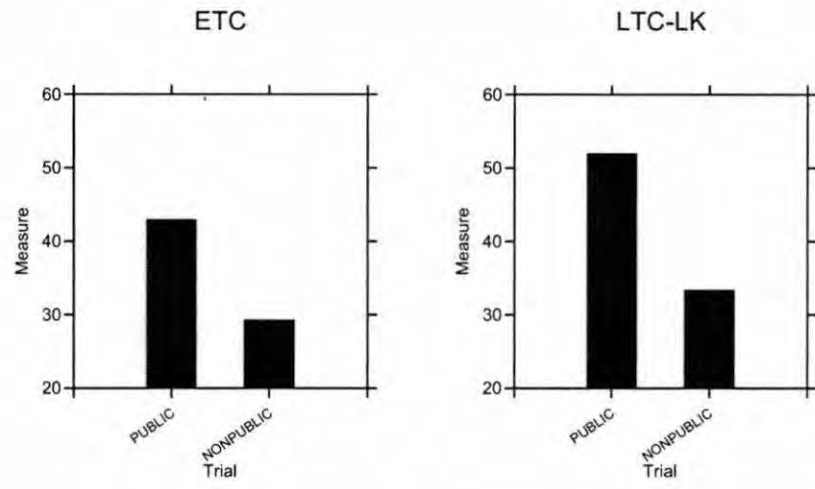


Figure 5.52. Bar chart comparing percentages of burials with grave goods in public and nonpublic contexts by phase.

could mean that these individuals played a more prominent role in the community at that time than did their contemporaries buried in domestic contexts and than did their early Town Creek-phase predecessors. A third change has to do with the kinds of artifacts that were found with burials in public spaces. During the early Town Creek phase, there was no association between the burials in public buildings and unusual artifacts, with the exception of the previously discussed bone scratcher. In contrast, distinctive artifacts during the late Town Creek-Leak phases were found only in burials on the mound summit or within the rectangular enclosure across the plaza (Driscoll 2002:22-23). These distinctive artifacts are mostly made from nonlocal materials and include whole and fragmentary mica objects as well as two types of ear ornament, one made from polished stone and the other from copper-covered wooden discs. The rattle is another distinctive artifact type, the presence of which was inferred by the occurrence of fragments of wood and/or a cluster of pebbles.

The types of artifacts found with some of the public-space burials during the late Town Creek-Leak phases can give us insights into the roles that these individuals may have played within their communities. The two most distinctive burials both contained rattles and mica. Rattles were often used among historic Indians in dances that were a part of social and ritual events (Swanton 1979:626-627). Based on iconographic depictions, artifact associations, and the ethnohistoric record, it is clear that high-status individuals in at least some Mississippian communities played critical roles in community rituals (Blitz 1993a:92; Dye 2000:11; Emerson 1997:258; Kenton 1927:427; Knight 1989a:209; Larson 1957:9, 1989:140; McWilliams 1988:92; Pauketat 1994:183-184). The association of rattles exclusively with public spaces during the late Town Creek-Leak phases at Town Creek and their presence in the burials of community leaders is consistent with this idea. The

distribution during the late Town Creek-Leak phases of mica, which may have been part of regalia worn during rituals (Blitz 1993a:86; Larson 1989:140), is also consistent with the idea that the mound summit and rectangular enclosure at Town Creek contained burials of individuals who played important roles in rituals. Additionally, the distinctive burial on the mound also contained a lump of red ochre, a mineral thought to have been important as a pigment in various ritual contexts (Blitz 1993a:86). In addition to mica fragments and a rattle, the distinctive burial at the center of the rectangular enclosure also contained a ceramic pipe and a raccoon skull. Among historic groups, pipes were an integral part of meetings that took place in public buildings (Waselkov and Braund 1995:50, 72, 102, and 104). Regarding the raccoon skull, raccoons were frequently depicted in Mississippian iconography (Phillips and Brown 1978:136 and 154-155), indicating that they were an important part of the belief system. Interestingly, one of the ways in which raccoons were used by Southeastern Indians is that pouches were made from their hides (Swanton 1979:250). The presence of a skull is consistent with the fact that the animal's head sometimes figured prominently into the design of a pouch (Swanton 1979:480). The raccoon skull was found near a cluster of pebbles that indicated the presence of a rattle, an item that could have been enclosed in a pouch. Among Southeastern Indians, pouches were an important part of the tool kit used by ritual practitioners and were used to hold a variety of sacred objects (Dye 2000:11; Hudson 1976:370; Moore 1988:42-43; Swanton 1979:477-479). Although the exact significance of the raccoon skull will never be known, the fact that it was from an animal that was depicted in religious art and that it may have been part of a pouch that contained a rattle is consistent with the idea that the man buried at the center of the rectangular enclosure played a prominent role in the ritual life of the postmound-construction community at Town Creek.

The differences in the composition of the burial populations between pre-mound-construction and post-mound-construction public buildings, with an emphasis on older and mature adults in the former and young adults in the latter, coupled with the presence of new artifact types suggests that the people buried in public spaces during the late Town Creek-Leak phases occupied new social and political roles. Mica artifacts, ear ornaments, and rattles are all artifact types that were not present in the early Town Creek-phase community. The presence of nonlocal materials (e.g., copper, mica, nonlocal stone) may have been an attempt to legitimate social and political statuses through ties to the external world. These nonlocal materials not only expressed external contacts in the real world, but they also could have been used as a metaphor for contact with the supernatural (Helms 1979:110). It has been argued that in many chiefdom-level societies, including those of the Mississippian Southeast, expressing ties with the supernatural was a common strategy for legitimating positions of authority (Earle 1989:85-86, 1997:143-144; Helms 1979:120; Keyes 1994:112; Knight 1989a:209-210). It seems that an early Town Creek-phase political organization that was more diffuse and representative and that could still be seen as equal to or less important than family and household ties was replaced by a form of social and political organization during the late Town Creek-Leak phases in which some individuals—primarily young adults—were clearly distinct and their ties to a community-wide status, which seems to have been closely related to ritual activities, were more important than their ties to family and household.

Endnotes to Chapter 5

1. In this method, comparisons are made based on the number of types—as defined by the analyst—associated with each burial rather than the number of artifacts (Bennett 1984:36). I counted each artifact type separately. Exceptions to this occurred within the class of shell beads where I differentiated among distinctive beads (e.g., those made from relatively unmodified columella portions, highly polished beads, disk beads) and more common beads, counting each as a separate type. I also made a distinction between columella and marginella beads. I also counted separately artifacts that were the same type but that were made from different materials (e.g., beads made from shell, pottery, or stone).
2. The age range for each particular class was based on two factors. First, the analytical age classes roughly correspond to stages in the life cycle of individuals that would have been recognized in native Southeastern communities (see Eastman 2001:58-60). Second, the age classes correspond to those used in other mortuary studies in the Southeast (Eastman 2001; Driscoll et al. 2001; Rodning 2001), and they will facilitate regional inter-site comparisons. Lambert (Davis et al. 1996) and Driscoll (2001) assigned specific ages to individuals, followed by an error term—a range of years above and below this age (e.g., 25 ± 5 years). In my analysis, the error term was ignored and individuals were assigned to age categories based on the specific age. While this greatly reduces the variability represented in the age data, this simplification is necessary for generating interpretations from the large amount of burial data from Town Creek. In order to avoid confusion, it should be noted that the classes used here are not the same ones used by Driscoll (2002:22) in her research at Town Creek.
3. Although a radiocarbon date associated with Structure 5a suggests that it may date to the Teal phase, the nature, or even existence, of a Teal-phase occupation is unclear at this time. Therefore, I have included the burials associated with Structure 5a in the discussion of the early Town Creek phase.
4. These are ornaments made from the curved portion of shell that encompasses the spire, shoulder, and body portions of a conch. At the center of each gorget was one of the spines located along the conch's shoulder. In each gorget, the spine had been perforated.
5. These remains are missing and were not included in the NAGPRA inventory. The individual was identified as a male in the field.
6. For the early Town Creek phase, public contexts include all of the submound public buildings and nonpublic contexts include all of the Small Circular Structures. For the late Town Creek-Leak phases, public contexts consist of all of the structures on the mound summit and Structure 51 as well as Burial Clusters 11 and 13 which were within Enclosure 1. Late Town Creek-Leak-phase nonpublic contexts include Enclosed Circular and Large Rectangular Structures.
7. With the exception of the stratified deposits in the mound, the spatial distribution of diagnostic ceramic artifacts was such that I was unable to consistently segregate deposits from the early Leak phase. Therefore, the mortuary data from nonmound contexts that date to the late Town Creek phase and the early portion of the Leak-phase are treated as a single unit.

8. Two of the individuals on the mound classified by Lambert as being indeterminate in regard to sex were considered by Driscoll (2001:214-215, 2002:Figure 9) to be possibly females. In this case where two analysts both had trouble making a definitive determination regarding sex, I chose to be conservative and consider the sex of the skeletal remains to be indeterminate. Also, this is consistent with my use of Lambert's data (Davis et al. 1996) throughout this research except in cases where Driscoll analyzed skeletons that Lambert did not.

Chapter 6: Vessel Analysis

The earthlodge-to-platform mound model proposes that changes in Mississippian public architecture reflect a centralization of political power that accompanied the appearance of platform mounds (Anderson 1994:119-120, 1999:220; DePratter 1983:207-208; Rudolph 1984:40). While the mortuary data from Town Creek show that there were changes in the nature of leadership between pre-mound and post-mound contexts (see Chapter 5), it is not clear that these changes reflect centralized political authority. In this chapter, ceramic vessel data are used as a proxy to assess the centralization of political authority in the post-mound community at Town Creek. First, domestic and non-domestic assemblages are identified from vessel function data. This is important in regard to the evolution of leadership at Town Creek because the existence of a house on the mound—the probable loci of political power—rather than a non-domestic, public building would suggest that political authority was closely associated with a single person or family (i.e., more centralized) after mound construction. Variation within the Town Creek community in the types of food-related activities (e.g. various types of cooking, consumption, serving, processing, storage) being performed should be reflected in differences among contexts in frequencies of vessel types (Blitz 1993b:87-93; Turner and Lofgren 1966; Welch and Scarry 1995:413-414). While the types of activities indicated by a particular vessel assemblage may not always be clear, it is likely that contexts with similar assemblages were associated with similar sets of activities while those with different assemblages were not (see Hally 1984:58-59). Due to

the variety of activities associated with household production and consumption, domestic vessel assemblages should include a broad range of vessel types and sizes to accomplish diverse tasks (Blitz 1993b:93; Taft 1996:57). In contrast, some Mississippian public buildings probably were associated with more restricted activities such as feasting and large-scale, communal food storage (Blitz 1993a:72; Kenton 1927:341, 430-431; McWilliams 1988:88; O'Neill 1977:244; Taft 1996:56-57). It has been argued that the specialized activity of feasting is reflected by more restricted assemblages in which large vessels, both cooking and serving, and serving vessels are proportionally over-represented in comparison with domestic assemblages (Blitz 1993a:84-85; Emerson 1997:161; Maxham 2000:348; Taft 1996:67-68; Welch and Scarry 1995:412-414). Feasting also has been attributed to short-term deposits that contain high densities of pottery as well as deposits with a number of large vessel fragments (Pauketat et al. 2002:269).

The second way in which vessel data are used is to assess the accessibility of public buildings. If political authority was centralized after mound construction, then fewer people would have been participating in the decision-making process and accessing the public buildings where political decisions were made. For public buildings, exploring assemblages by size could indicate the relative size of the group that had access to them. Differences in vessel size are important because, assuming that group size and the amount of food consumed were correlated, vessel size—as a proxy for the amount of food cooked and served at one time—should reflect the relative number of people who used a context (see Turner and Lofgren 1966). In the case of public buildings in which community-wide decisions were made, knowing the relative size of the group that had access to them could indicate the relative size of the decision-making group.

DATA AND METHODS

In this chapter, vessel classes and types are defined based on vessel shape and vessel size. Then, the function of vessel types is inferred based on shape and patterns of use-alterations (see Hally 1983, 1986; Skibo 1992). Finally, differences among assemblages from different periods and contexts are explored. The two main goals of this analysis are to examine differences in food-related activities through the distribution of functional types and to explore differences in the size of the social groups using different contexts through a comparison of vessel sizes. The assemblage of 180 Pee Dee vessels on which this analysis is based (Appendix II) consists of completely reconstructed and partially reconstructed vessels as well as large rim sherds. In order to be considered, enough of the rim had to be present so the sherd could be oriented in order to estimate vessel shape and circumference. Most of the vessels in the assemblage are from Town Creek (n=148), but others from Leak (n=25) and Teal (n=7) were also included. The assemblage of Pee Dee vessels used for this analysis includes all of the known specimens from Town Creek that fit the criterion of being large enough to be properly oriented. These specimens are either curated by the RLA or are on display in the museum at Town Creek Indian Mound State Historic Site. The specimens in the assemblage from Leak and Teal include large rims from surface collections and excavations performed by Keel and South (see Chapter 2). They also include several large, reconstructed vessels that washed out of features at both sites, four from Leak and one from Teal. Finally, there are five vessels on display in the museum at Town Creek for which the only known provenience is that they came from either Town Creek, Leak, or Teal (Archie Smith, personal communication 2004).

Vessel classes and types were defined largely by shape. A profile drawing was made of each vessel in the assemblage. Drawings of all complete and mostly complete vessels were made using a pantograph (see March 1967:45-50) while drawings of sherds were made using a form gauge and calipers. Vessels were then assigned to classes (e.g., bowls or jars) and types (e.g., carinated, open, restricted) based on similarities in profile contours. These shape-based classes and types are probably related to vessel function because morphological differences can affect a vessel's performance in the manipulation, removal, and heating of vessel contents (Braun 1980:173; Hally 1986:278-280; Henrickson and McDonald 1983:630; Smith 1988:912; Wilson and Rodning 2002:30).

Use-alterations were identified by examining vessel interiors and exteriors with a 10x magnifying lens. For the use-alteration analysis, only complete vessels and large vessel sections—those that approximated half the vessel or more—were considered because I was not confident in the patterns that could be identified on smaller specimens. Thus, the sample considered for use-alterations is the most restrictive within the vessel analysis. The use-alterations recognized in this analysis and my assumptions regarding the activities that produced them are based largely on the work of Hally (1983; 1986) and Skibo (1992). The use-alterations identified in the Pee Dee assemblage include scratches and pits on vessel interiors which might be the result of manipulating (e.g., stirring and mixing) vessel contents (Hally 1983:20; Skibo 1992:132-138). A distinction was made between light and heavy interior use-alterations. Light use-alterations were generally shallow and 1 mm or less wide while deep modifications were generally large, often deep enough to expose clay and temper particles within the interior of the vessel's body. The differences between light and deep interior modifications might be due to the frequency and intensity of the manipulation of

vessel contents. Exterior use-alterations include thermal alterations such as soot accumulation, oxidation, and reduction which were related to the vessel's use over fire, presumably for cooking (Hally 1983:11-12; Skibo 1992:154-162; but see Hally 1983:10). The most common exterior use-alteration was a horizontal pattern of thermal alteration in which bases were sooted, the lower parts of vessels were oxidized, and the upper portions were reduced and/or sooted.

Orifice diameter was used as a proxy measure for vessel size. While vessel volume would be the appropriate measure of vessel size, complete vessels are rare in archaeological contexts. Instead, orifice diameter can be estimated from much more commonly found rim sherds. A correlation between orifice diameter and vessel size has been established for other ceramic assemblages (Whallon 1969:89), including those from other Mississippian sites (Hally 1986:279; Shapiro 1984:705), and I assume such a relationship also exists within the Pee Dee assemblage. The orifice diameter of complete and mostly complete vessels was measured and a template of concentric semicircles spaced at 1 cm intervals was used to estimate the diameter of vessel fragments and sherds.

VESSEL CLASSES AND TYPES

All of the Pee Dee vessels analyzed were either bowls or jars. Bowls are defined as vessels with an orifice diameter-to-depth ratio greater than or equal to one while jars are defined as having a value less than one. Within the categories of bowls and jars, open and restricted forms were recognized with the former referring to vessels whose maximum diameter is at the lip and the latter to vessels whose maximum diameter is not at the lip (see Shepard 1957:228). The primary vessel types recognized in the Pee Dee assemblage based

on shape were carinated bowls, open bowls, restricted bowls, carinated jars, open jars, and restricted jars (Figure 6.1). In this section, vessel types are defined, size classes identified, and patterns of use-alterations discussed (Figures 6.2 and 6.3) (Tables 6.1 and 6.2).

Carinated Bowls

Carinated bowls are defined as bowls whose maximum diameter is below the lip at a corner point, a sharp change in the vessel's contour (Figure 6.4) (see Shepard 1957:226). Breaks in the distribution of the orifice diameter of carinated bowls (Figure 6.5) show that three size classes may be represented, although only a small number of carinated bowls were present in the assemblage. These size classes are small (< 20 cm), medium (21-30 cm), and large (> 31 cm). Internal use-alterations include light to moderate pitting and scratching. Carinated bowls do not exhibit external thermal alterations, indicating that these vessels were not used for cooking. All of the carinated bowls are burnished plain which suggests that they were serving rather than cooking vessels (see Rice 1987:232).

Open Bowls

Open bowls are those bowls with straight to slightly outwardly sloping walls whose maximum diameter is at the lip (Figure 6.6). The distribution of open bowls by orifice diameter indicates that they can be divided into small (< 13 cm), medium (14-39 cm), and large (> 40 cm) size classes (Figure 6.7). The only small open bowl complete enough to be included in the vessel analysis is a unique pot. It has a thick, broken bottom that suggests it may have had a pedestalled base (Figure 6.8). This is the vessel that Coe (1995:190) has referred to as a chalice. This vessel has no evidence of thermal alterations indicating that it

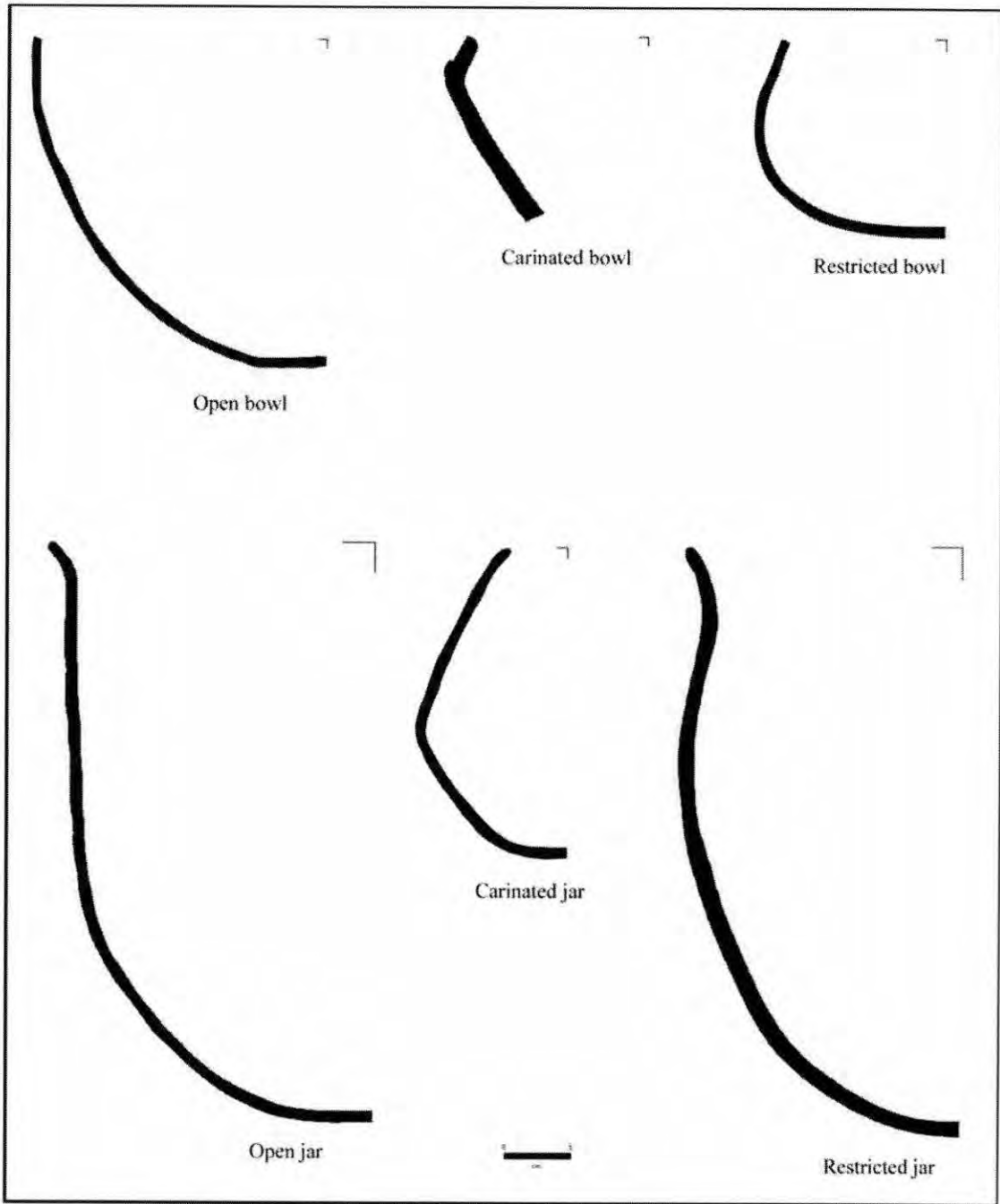
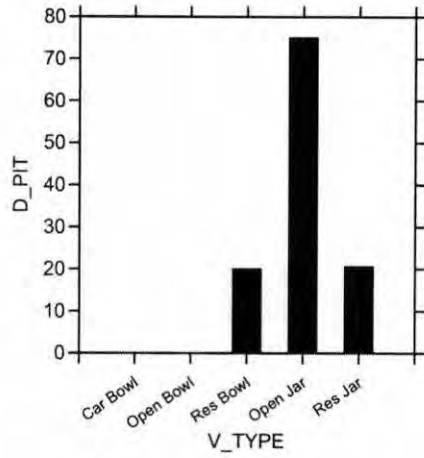
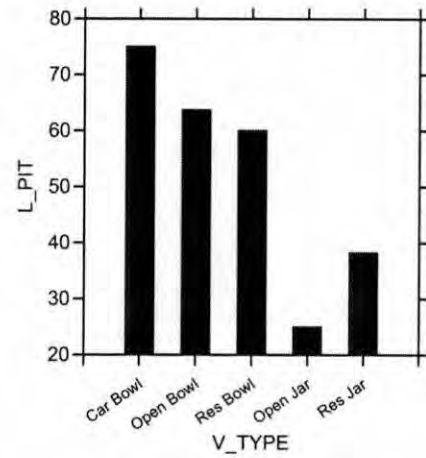


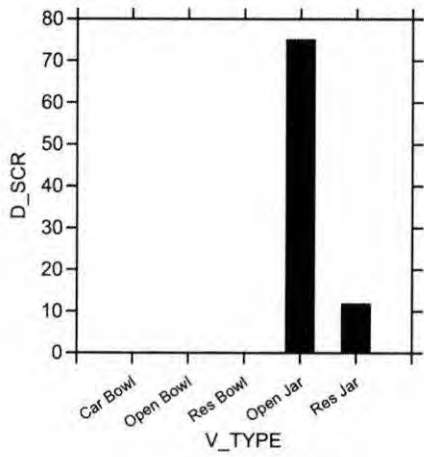
Figure 6.1. Pee Dee vessel types.



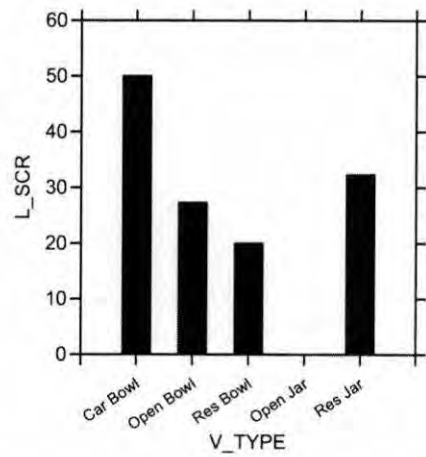
Deep Pitting



Light Pitting

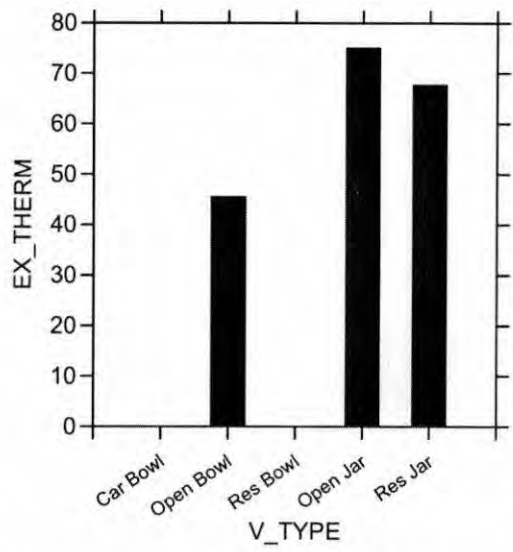


Deep Scratching

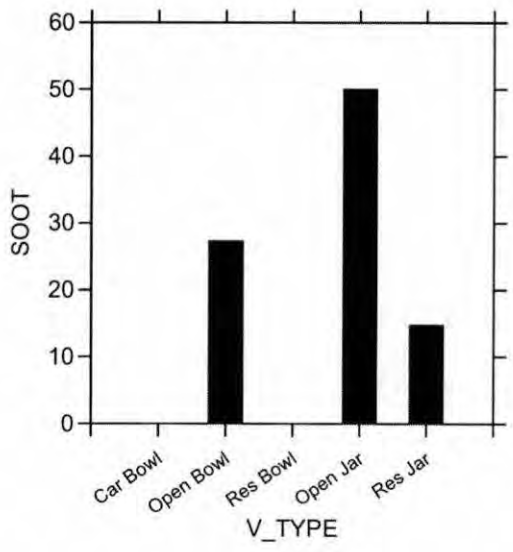


Light Scratching

Figure 6.2. Bar charts showing percentages of vessels with interior use-alterations (deep and light pitting, deep and light scratching) by vessel type.



Horizontal Pattern of Thermal Alteration



Sooting

Figure 6.3. Bar charts showing percentages of vessels with exterior use-alterations (horizontal pattern of thermal alteration and sooting) by vessel type.

Table 6.1. Counts of use-alterations by vessel type.

Vessel Type	Total Vessels	External Soot	Horizontal Thermal	Deep Pitting	Light Pitting	Deep Scratching	Light Scratching
Bowls							
Carinated							
Large	1	-	-	-	1	-	-
Medium	1	-	-	-	1	-	1
Small	2	-	-	-	1	-	1
Subtotal	4	-	-	-	3	-	2
Open							
Large	1	-	-	-	1	-	-
Medium	8	3	4	-	4	-	2
Small	2	-	1	-	2	-	1
Subtotal	11	3	5	-	7	-	3
Restricted	5	-	-	1	3	-	1
Jars							
Carinated							
Open	1	-	1	-	-	-	-
Open							
Large	3	2	2	3	-	3	-
Medium	1	-	1	-	1	-	-
Subtotal	4	2	3	3	1	3	-
Restricted							
Medium	29	5	21	7	12	4	10
Small	5	-	2	-	1	-	1
Subtotal	34	5	23	7	13	4	11
Total	59	10	32	11	27	7	17

Table 6.2. Percentages of use-alterations by vessel type.

Vessel Type	Number of Vessels	Horizontal Thermal	External Soot	Deep Pitting	Light Pitting	Deep Scratching	Light Scratching
Bowls							
Carinated							
Large	1	-	-	-	100.0	-	-
Medium	1	-	-	-	100.0	-	100.0
Small	2	-	-	-	50.0	-	50.0
Subtotal	4	-	-	-	75.0	-	50.0
Open							
Large	1	-	-	-	100.0	-	-
Medium	8	50.0	37.5	-	50.0	-	25.0
Small	2	50.0	-	-	100.0	-	50.0
Subtotal	11	45.5	27.3	-	63.6	-	27.3
Restricted	5	-	-	20.0	60.0	-	20.0
Open							
Large	3	66.7	66.7	100.0	-	100.0	-
Medium	1	100.0	-	-	100.0	-	-
Subtotal	4	75.0	50.0	75.0	25.0	75.0	-
Restricted							
Medium	29	72.4	17.2	24.1	41.4	13.8	34.5
Small	5	40.0	-	-	20.0	-	20.0
Subtotal	34	67.6	14.7	20.6	38.2	11.8	32.4

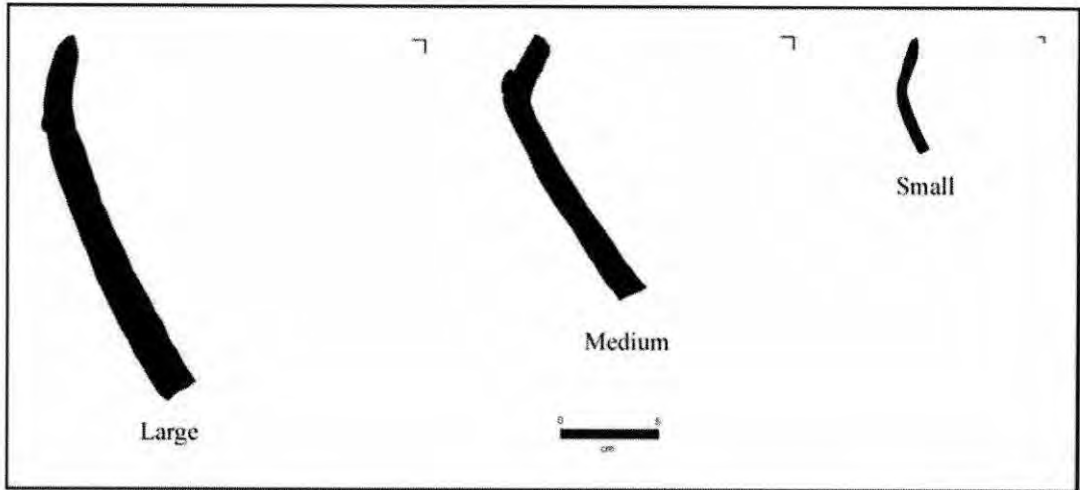


Figure 6.4. Carinated bowls.

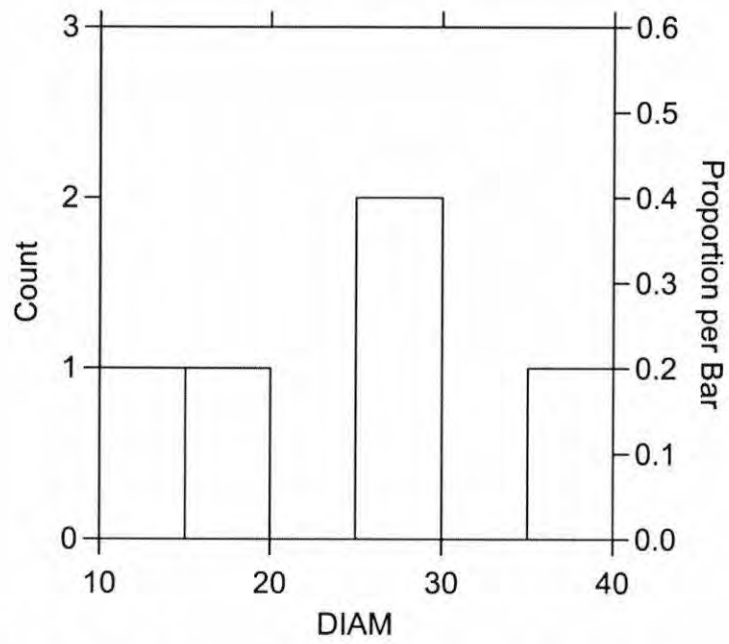


Figure 6.5. Histogram of carinated bowls by diameter (cm).

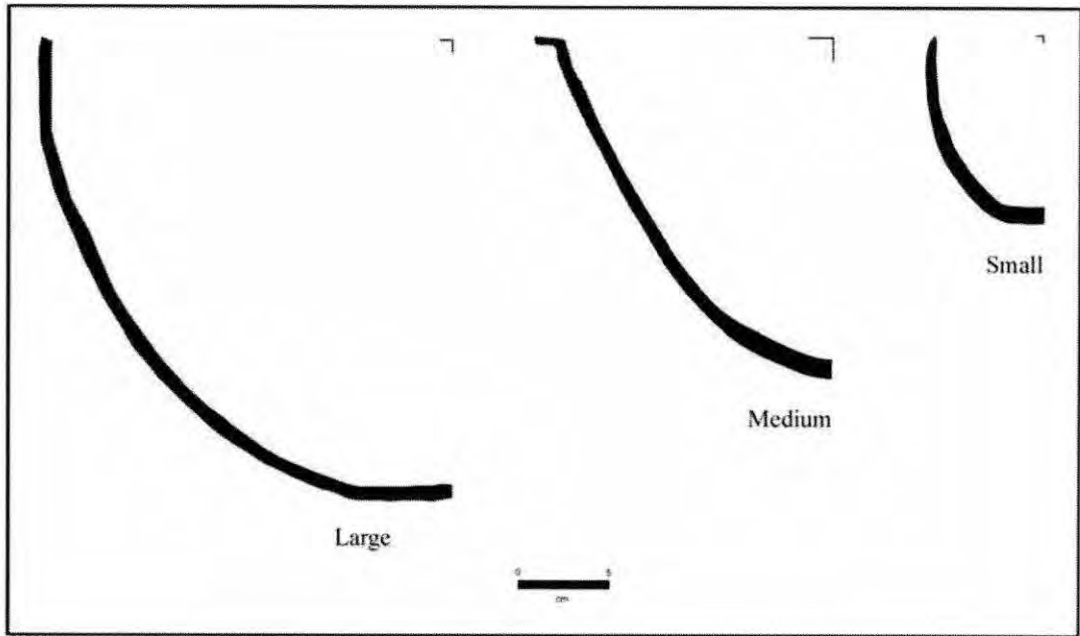


Figure 6.6. Open bowls.

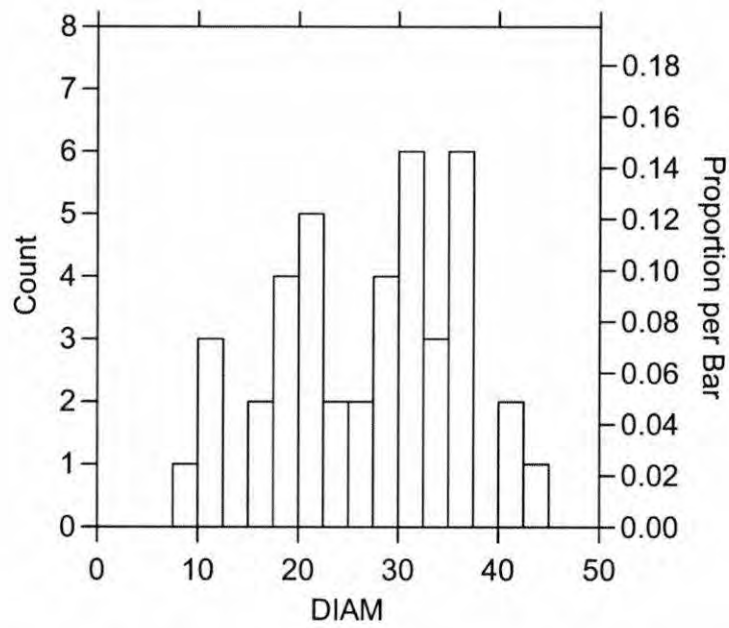


Figure 6.7. Histogram of open bowls by diameter (cm).

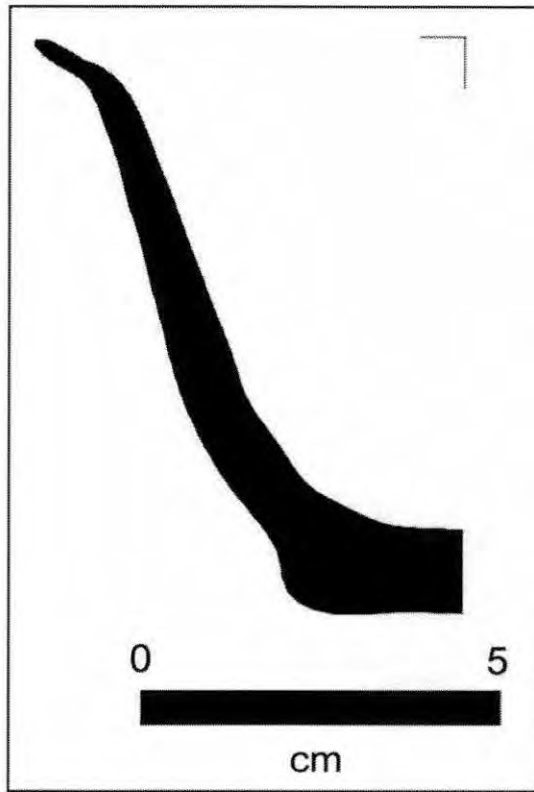


Figure 6.8. Open bowl with pedestalled base.

was not used for cooking. Two bands of pitting were present on the vessel's interior, indicating that its contents were manipulated. The pedestal form of this vessel's base would have made it fairly stable while its contents were being manipulated.

It is clear that some of the medium open bowls were used for cooking. Five vessels, all of which were either complicated stamped or textile impressed, showed a horizontal pattern of thermal alteration. Several of these were sooted on their upper, exterior surface, and none showed any interior use-alterations. Four other medium open bowls, all of which were burnished plain, do not show any evidence of having been used for cooking. One of these showed light pitting on its interior and the other three did not show any interior use-alterations.

Overall, medium and large open bowls do not show any deep pitting or scratching, indicating that the vigorous manipulation of contents was not an important aspect of their use. Almost half of these vessels show a horizontal pattern of thermal alteration and over a quarter of them are sooted. This is a surprising pattern because the open, shallow shape of these vessels does not seem to be optimal for cooking (Hally 1986:280-281; Henrickson and McDonald 1983:63). While these vessels are not well-suited for extended periods of cooking, the sooting and thermal alterations present on some of them may have been from the heating or final preparation of foods that had been cooked primarily in other pots (see Hally 1986:288). Additionally, the shape of these open bowls would have been ideal for the subsequent serving of these foods (Hally 1986:279-280; Henrickson and McDonald 1983:632). While those with stamped and textile-impressed exterior surfaces appear to have been used for short-term cooking and serving, the medium and large open bowls with

burnished plain exteriors do not seem to have been used for cooking and may have been serving vessels exclusively.

Restricted Bowls

Restricted bowls are bowls whose maximum diameter is at a point of vertical tangency in the vessel's contour that is below the lip (Figure 6.1) (see Shepard 1957:226). The distribution of restricted bowls by orifice diameter is continuous (Figure 6.9), so the existence of different size classes is not apparent. Also, the range of sizes represented in the restricted bowls is the smallest of all bowl types. The relative uniformity of orifice diameter for restricted bowls could mean that these vessels were used for a specialized purpose. All of the restricted bowls have burnished plain surfaces and none show evidence of having been used for cooking. None are sooted or show a horizontal pattern of thermal alteration. Four of these vessels have light to moderate pitting on their upper interior surfaces just below the lip. Of the other two restricted bowls, one had heavy pitting on the bottom half of the vessel and the other did not have any interior use-alterations. The absence of thermal use-alterations and the low frequency of deep pitting and scratching indicates that restricted bowls were used for serving rather than cooking (see Henrickson and McDonald 1983:632; Skibo 1992:67).

Carinated Jar

A single carinated jar is present in the Pee Dee assemblage (Figure 6.1). It is a vessel whose maximum diameter is at a corner point approximately half way up its profile. This pot is thought to be from the Leak site (see Coe 1995:Figure 9.35), although this is not known for

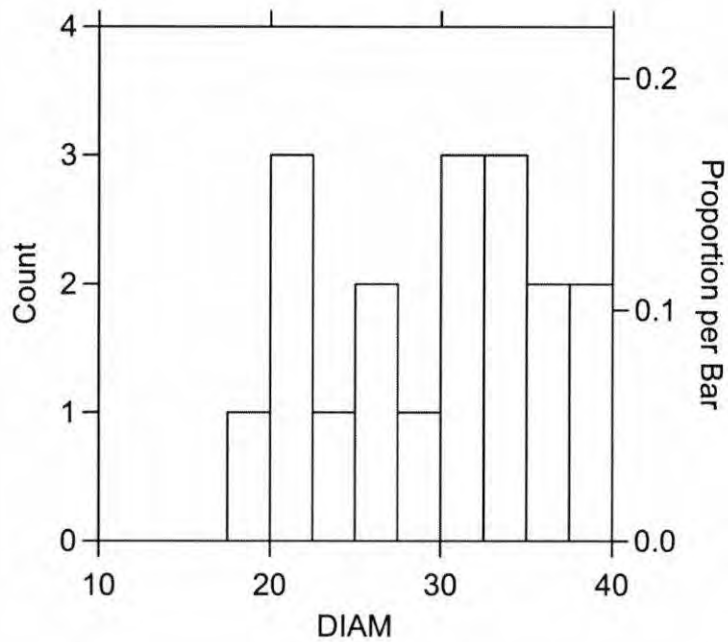


Figure 6.9. Histogram of restricted bowls by diameter (cm).

sure (Archie Smith, personal communication 2004). This jar did not show any evidence of having been used for cooking and it did not have any interior use-alterations. The shape of this vessel and the fact that it was not used for cooking suggests that it may have been used as a small serving or storage jar, possibly for liquids (see Hally 1986:288).

Open Jars

Open jars are defined as those jars with straight to slightly outwardly sloping walls with a maximum diameter at the lip (Figure 6.10). The distribution of open jars by orifice diameter indicates that these vessels can be divided into the size classes of small (< 10 cm), medium (11-39 cm), and large (> 40 cm) (Figure 6.11). The two small open jars, which look like small cups, do not show any thermal use-alterations. It is possible that these were individual serving vessels.

All four of the large open jars appear to have been used for cooking because they show evidence of thermal use-alterations. All exhibit a horizontal thermal-alteration pattern and two of them have significant soot accumulations. They also have heavy pitting on the lower half of their interiors and three have deep scratching on the upper half of their interiors. Although no examples of medium open jars were large enough to be included in the examination of use-alterations, it is likely that they were also used for cooking. The open jar class has the highest percentages for any vessel type of horizontal thermal alterations, external sooting, deep pitting, and deep scratching. It is clear that large open jars were used for cooking and that their contents were frequently and vigorously stirred. The presence of thick soot deposits on several of the large open jars may be related to their size. The soot present on the surface of these vessels is the kind that could be removed through cleaning

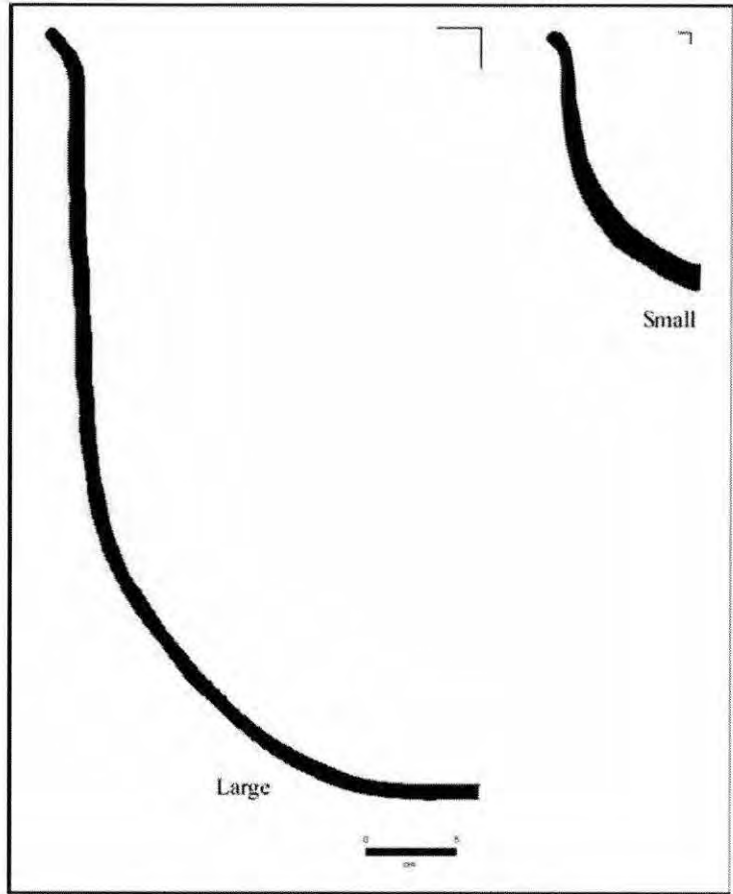


Figure 6.10. Open jars.

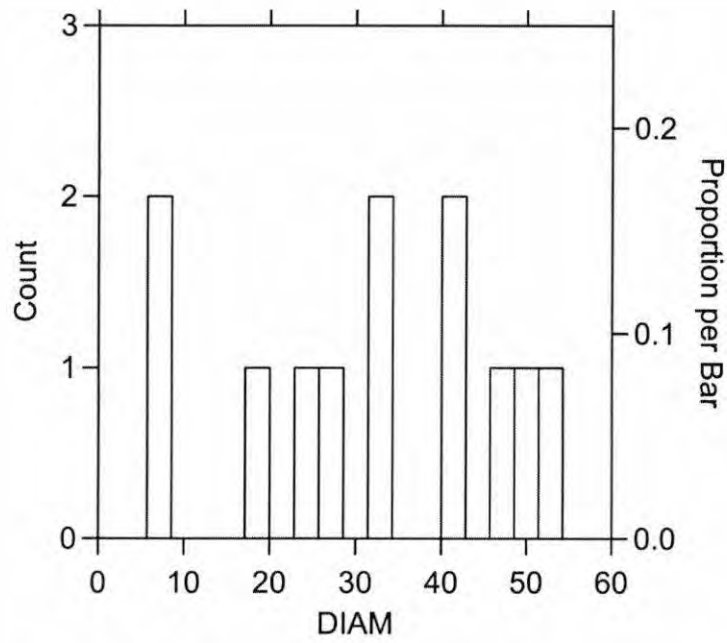


Figure 6.11. Histogram of open jars by diameter (cm).

(see Hally 1983:8; Skibo 1992:157-159). The presence of this kind of soot suggests that large open jars were cleaned less frequently than vessels of other classes, possibly because of the difficulty involved in moving them. This would be consistent with ethnographic evidence that vessel size is negatively correlated with frequency of movement (DeBoer 1985:348).

Restricted Jars

Restricted jars are vessels whose diameter at the neck, or uppermost point of vertical tangency (Shepard 1957:226), is smaller than at the lip (Figure 6.12). Restricted jars are the most frequently occurring vessel type in the assemblage. Over two-thirds of the restricted jars exhibit a horizontal pattern of thermal alteration indicating that they were placed directly on fires. The presence of soot on some but not all restricted jars is consistent with the idea that they were used for cooking but that they were small enough to be moved for cleaning. The high frequency of interior use-alterations within the restricted jars class is consistent with their contents having been frequently stirred while cooking. The distribution of restricted jars by orifice diameter indicates that restricted jars can be divided into the three size classes of small (< 13 cm), medium (14-49 cm), and large (> 50 cm) (Figure 6.13). Three of the small restricted jars do not show any use-alterations. The other three show a horizontal pattern of thermal alteration. One of these shows light interior pitting and another one shows light scratching. This indicates that small restricted jars may have been used for cooking and for serving, perhaps as individual serving vessels. The high frequencies of thermal-alterations and interior use-alterations indicate that medium restricted jars were used for cooking and that their contents were frequently manipulated during this process.

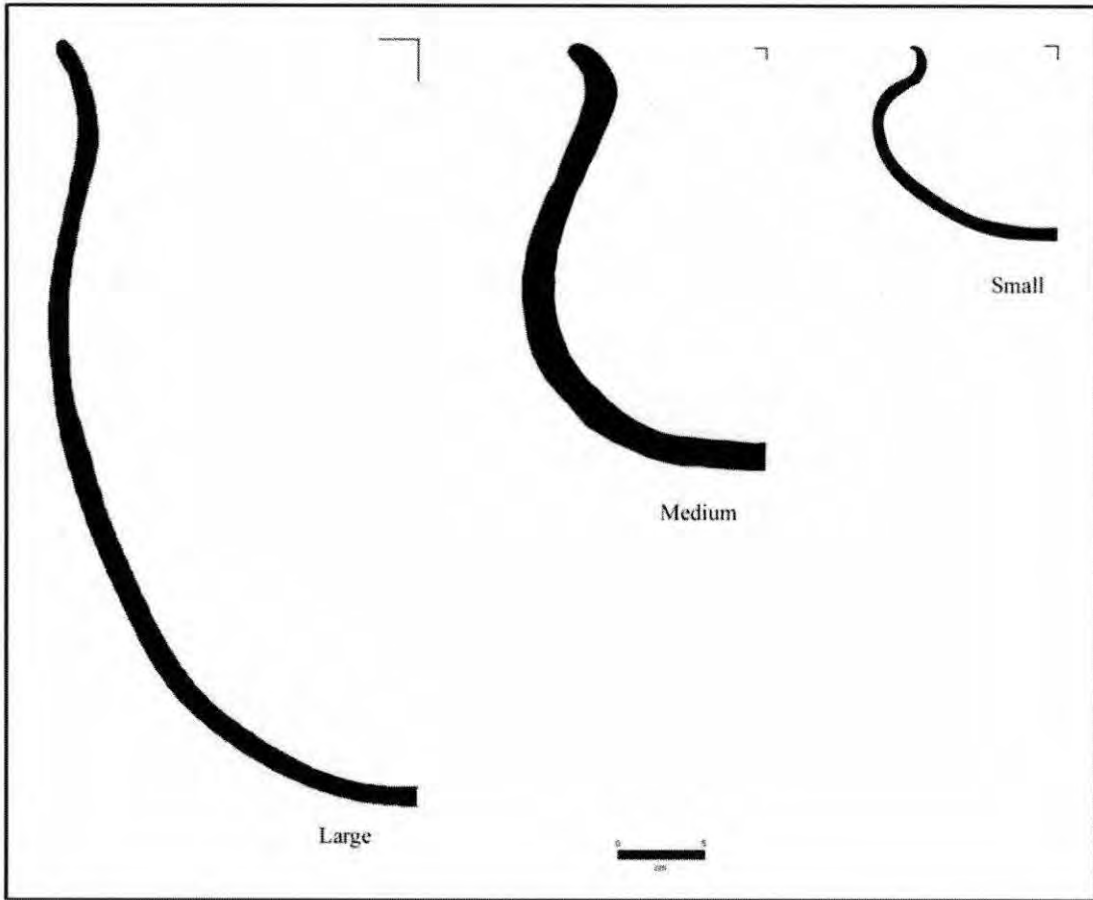


Figure 6.12. Restricted jars.

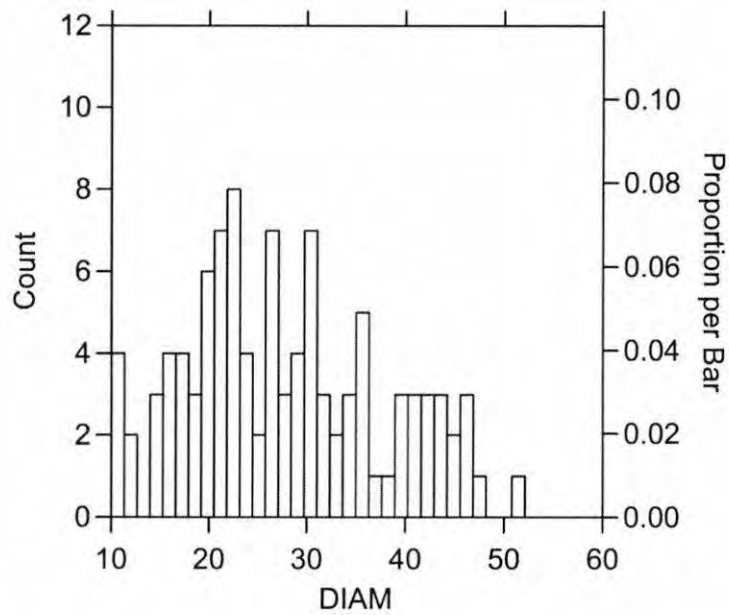


Figure 6.13. Histogram of restricted jars by diameter (cm).

Although no large restricted jars could be included in the functional analysis, it is likely that they were used for cooking as well.

FUNCTION

Patterns of use-alterations and characteristics of vessel profiles can be used together to make some inferences about the basic functions of the vessel types identified in the assemblage of whole and partial Pee Dee vessels. It seems that carinated bowls and restricted bowls were serving vessels. All of them are burnished plain and none of them show any thermal use-alterations. Some medium open bowls, those that are burnished plain, appear to have been exclusively serving vessels as well. Small open jars were possibly cups used as serving vessels for individuals. Some small restricted jars and the carinated jar also may have been small serving vessels or they could have been used for small-scale storage. Other small restricted jars may have been used for cooking. Some medium open bowls, those with stamped or textile-impressed surface treatments, appear to have been used for short-term cooking and subsequently for serving. It is possible that some of the larger jars were used for storage, but the high proportion of horizontal thermal alterations among medium and large open jars as well as medium restricted jars indicates that larger jars were used predominantly for long-term cooking.

Burial Urns

The burial of some infants and children in ceramic jars that were placed in pits in structure floors has been recognized as one of the defining characteristics of Pee Dee culture (Coe 1952:309; Ferguson 1971:206) and a number of such burials have been documented at

Town Creek (Coe 1995:274-277). It is likely that some of the larger jars and bowls from Leak and Teal included in this analysis are also from urn burials—a burial type that has been documented at both sites (Oliver 1992:86 and 176). Twelve of the vessels discussed in this chapter were used as burial urns at Town Creek (Table 6.3). Seven of these are medium restricted jars and five are either medium open bowls or restricted bowls. The remains of the deceased were placed in the bottom of the jars and the bowls were inverted over the jar's mouth to form a lid. Half of the bowls and all of the jars used for urn burials at Town Creek exhibit a horizontal pattern of thermal alteration. Several vessels of each class were sooted and a number of vessels of each class show internal use-alterations. Thus, while the ultimate use of these vessels was as a container and lid for the burial of infants and children, they do not appear to have been specially made for this purpose. Instead, it seems that these vessels had been previously used for daily, domestic tasks such as cooking (cf., Coe 1995:276).

Intrasite Patterns at Town Creek

In this section, differences among vessel assemblages from various contexts at Town Creek are explored. Only specimens from contexts associated with a particular spatial context, such as a structure or discrete midden deposit, are considered (Tables 6.4 and 6.5). The sample used for exploring the distribution of functional types is drawn from those whole vessels, partial vessels, and large rims used for the functional analysis. The sample used for examining differences in vessel size is slightly more inclusive, consisting of those sherds that could be oriented and for which orifice diameter could be estimated.

The ability to make comparisons among spatial and temporal units was determined by where measurable rims were found. In order to have sample sizes large enough to make

Table 6.3. Use-alterations on vessels used for urn burials.

Context	Spatial Unit	Surface Treatment	Diameter (cm)	Vessel Class	Horizontal					
					Thermal Alteration	Sooting	Heavy Pitting	Light Pitting	Heavy Scratching	Light Scratching
Bu. 3	BC 11	curv. comp. st.	36	med. rest. jar	X	-	-	X	-	X
		burn. pl.	34	rest. jar	-	-	-	-	-	-
Bu. 35	St. 7	text. imp.	32.5	med. open bowl	X	X	-	X	-	X
		curv. comp. st.	39	med. rest. jar	X	-	-	X	-	-
Bu. 98b	St. 7	curv. comp. st.	31	med. open bowl	X	X	-	-	-	-
Bus. 102-107	St. 7	curv. rect. st.	45	med. rest. jar	X	X	X	-	-	-
Bu. 102	St. 7	plain	31	med. open bowl	-	-	-	-	-	-
		curv. comp. st.	33	med. rest. jar	X	X	-	X	-	X
Bu. 113	St. 7	curv. comp. st.	36	med. open bowl	X	X	-	X	-	-
		curv. comp. st.	36	med. rest. jar	X	-	X	-	X	-
Bu. 121	St. 7	curv. comp. st.	31	med. rest. jar	X	-	-	X	-	X
Bu. 124	St. 7	curv. comp. st.	30	med. rest. jar	X	-	-	X	-	X

Table 6.4. Vessel types by context including burial associations.

Context	Bowls						Jars						Totals	
	Small Carinated	Medium Carinated	Small Open	Medium Open	Large Open	Restricted	Small Carinated	Medium Open	Large Open	Small Restricted	Medium Restricted	Large Restricted		
Counts														
Leak	1	-	-	8	-	3	1	-	1	-	-	11	-	25
Teal	-	-	-	1	-	-	-	-	-	1	-	5	-	7
Town Creek (all)	1	1	1	7	0	4	0	1	1	0	4	38	1	59
Enclosed Circular	-	-	3	7	1	1	-	1	-	-	1	13	-	27
Large Rectangular	-	-	-	-	-	-	-	-	-	-	-	2	-	2
Level X	-	-	-	2	-	3	-	-	1	-	-	3	-	9
Medium Rectangular	-	-	-	1	-	-	-	-	-	1	-	1	-	3
Premound Public	-	1	1	1	-	1	-	-	1	-	4	10	-	19
Riverbank	1	-	-	5	-	2	-	1	-	-	-	24	1	34
Small Circular	-	-	-	1	-	1	-	-	-	-	-	4	-	6
Percentages														
Leak	4.0	-	-	32.0	-	12.0	4.0	-	4.0	-	-	44.0	-	
Teal	-	-	-	14.3	-	-	-	-	-	14.3	-	71.4	-	
Town Creek (all)	1.0	1.0	4.0	17.0	1.0	8.0	-	2.0	2.0	1.0	5.0	57.0	1.0	
Enclosed Circular	-	-	11.1	25.9	3.7	3.7	-	3.7	-	-	3.7	48.1	-	
Large Rectangular	-	-	-	-	-	-	-	-	-	-	-	100.0	-	
Level X	-	-	-	22.2	-	33.3	-	-	11.1	-	-	33.3	-	
Medium Rectangular	-	-	-	33.3	-	-	-	-	-	33.3	-	33.3	-	
Premound Public	-	5.3	5.3	5.3	-	5.3	-	-	5.3	-	21.1	52.6	-	
Riverbank	2.9	-	-	14.7	-	5.9	-	2.9	-	-	-	70.6	2.9	
Small Circular	-	-	-	16.7	-	16.7	-	-	-	-	-	66.7	-	

Table 6.5. Vessel types by context excluding burial associations.

Context	Bowls						Jars						Totals	
	Small Carinated	Medium Carinated	Small Open	Medium Open	Large Open	Restricted	Small Carinated	Medium Open	Large Open	Small Restricted	Medium Restricted	Large Restricted		
Counts														
Leak	1	-	-	8	-	3	1	-	1	-	-	11	-	25
Teal	-	-	-	1	-	-	-	-	-	1	-	5	-	7
Town Creek (all)	1	1	1	6	0	4	0	1	1	0	4	37	1	57
Enclosed Circular	-	-	1	4	1	1	-	-	-	-	1	7	-	15
Large Rectangular	-	-	-	-	-	-	-	-	-	-	-	2	-	2
Level X	-	-	-	2	-	3	-	-	1	-	-	3	-	9
Medium Rectangular	-	-	-	1	-	-	-	-	-	1	-	1	-	3
Premound Public	-	1	1	1	-	1	-	-	1	-	4	10	-	19
Riverbank	1	-	-	5	-	2	-	1	-	-	-	24	1	34
Small Circular	-	-	-	-	-	1	-	-	-	-	-	3	-	4
Percentages														
Leak	4.0	-	-	32.0	-	12.0	4.0	-	4.0	-	-	44.0	-	
Teal	-	-	-	14.3	-	-	-	-	-	14.3	-	71.4	-	
Town Creek (all)	1.2	1.2	2.3	15.1	1.2	9.3	-	1.2	2.3	1.2	5.8	58.1	1.2	
Enclosed Circular	-	-	6.7	26.7	6.7	6.7	-	-	-	-	6.7	46.7	-	
Large Rectangular	-	-	-	-	-	-	-	-	-	-	-	100.0	-	
Level X	-	-	-	22.2	-	33.3	-	-	11.1	-	-	33.3	-	
Medium Rectangular	-	-	-	33.3	-	-	-	-	-	33.3	-	33.3	-	
Premound Public	-	5.3	5.3	5.3	-	5.3	-	-	5.3	-	21.1	52.6	-	
Riverbank	2.9	-	-	14.7	-	5.9	-	2.9	-	-	-	70.6	2.9	
Small Circular	-	-	-	-	-	25.0	-	-	-	-	-	75.0	-	

meaningful comparisons, rims are pooled by structure type and the rims from the submound public buildings are considered as a single analytic unit. All of the rims from pre mound public buildings either possibly or definitely came from one of the small, square structures (i.e., Structures 4b, 23a, or 24). The pre mound public buildings and Small Circular Structures date to the early Town Creek phase. Enclosed Circular Structures, which may represent a palimpsest of earlier domestic structures and later enclosed cemeteries, probably contain rims from both the Town Creek and Leak phases. Rims from the mound-flank midden Level X date to the late Town Creek phase while those from Large Rectangular Structures date to the late Town Creek-Leak phases. The riverbank midden contains mixed deposits that span the entire Town Creek and Leak phases. Although there are stratigraphic differences in the riverbank midden, the levels that produced measurable rims cross-cut these strata resulting in a great deal of temporal mixing. Thus, the riverbank midden will be considered as a single unit.

Formation Processes

The rims used in this vessel analysis came from contexts that were likely subject to a variety of formation processes, so there may be issues about the comparability of samples.¹ These contexts were formed through the intentional discard of sherds in middens, the intentional placement of vessels with individuals at the time of burial, and the unintentional loss of sherds in structure floors. Making comparisons among assemblages that were produced by such a variety of formation processes is less than ideal because any differences may be the result of predepositional and postdepositional formation processes rather than behavior (Schiffer 1987:5). However, these are the only deposits from Town Creek with

which we have to work and I believe it would be better to compare patterns and make interpretations with some qualifications rather than to make no interpretations at all.

The comparison of the Level X and riverbank midden deposits should be relatively straightforward because these appear to have been the result of intentional discard. Assuming that the riverbank midden represents communal debris contributed to by many households (see Schiffer 1987:62), then it could provide a baseline assemblage to which all others can be compared in order to recognize unique assemblages. However, at least two considerations must be included in any comparison of vessel assemblages among all other contexts at Town Creek. First, most of the sherds associated with structures were likely incidental inclusions included in the fill of features and burials. Unlike middens that probably contain the full range of vessel types, the assemblage of sherds that were incidental inclusions may be biased toward smaller sherds and possibly smaller vessels because these sherds are more likely to accumulate in structure floors because they were missed during cleaning. The second consideration is that the opposite is probably true for the jars and bowls used for urn burials, where the functional necessity of having a container large enough to hold the remains of the deceased would likely bias these vessels toward the larger end of the spectrum. Even though the sherds from fill and the vessels associated with burials came from very different behaviors, loss during the performance of daily tasks for the former and the intentional placement with a person as part of a burial ritual with the latter, both have been included within the assemblages from Enclosed Circular and Small Circular Structures because the activities that produced them—while clearly different—were performed within the same kinds of structures and were presumably performed by the same social groups.

Vessels from feature fill and burial associations from within Small Circular and Enclosed Circular Structures are compared in order to assess the differences between these contexts. A boxplot (Figure 6.14) shows that there are no real differences in size between the rims from the two types of context, although sample sizes are small for both. A comparison between jars from fill and those that were burial associations shows that the former tend to be smaller than the latter. Therefore, any comparison among contexts will have to consider the fact that the jars from fill contexts may be biased toward smaller vessels.

Functional Types

There are several indications that an assemblage characterized by a high percentage (> 60%) of cooking jars, primarily those of the medium restricted type, is the typical domestic assemblage at Town Creek. One reason is that the assemblage associated with Small Circular Structures, a type of structure that probably represents houses, is dominated by medium restricted jars (Figure 6.15) (Table 6.6). This pattern is present even when burial associations have been removed (Figure 6.16) (Table 6.7). Another reason is that the riverbank midden assemblage, which presumably represents a community midden that was produced by the refuse from numerous households (see Schiffer 1987:62), was also dominated by restricted jars. Also, if most of the assemblages at a site represent domestic ones based on the ubiquity of households in native communities relative to nondomestic contexts, then the fact that most of the assemblages from Town Creek contained a high percentage of restricted jars indicates that cooking was the predominant food-related activity in domestic contexts.

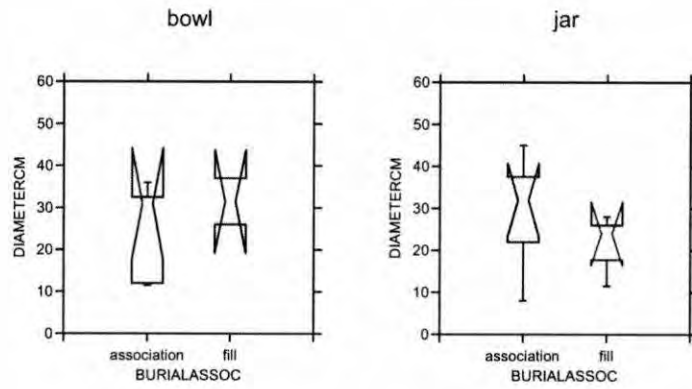


Figure 6.14. Boxplots comparing rim diameter by vessel class between fill and burial association contexts.

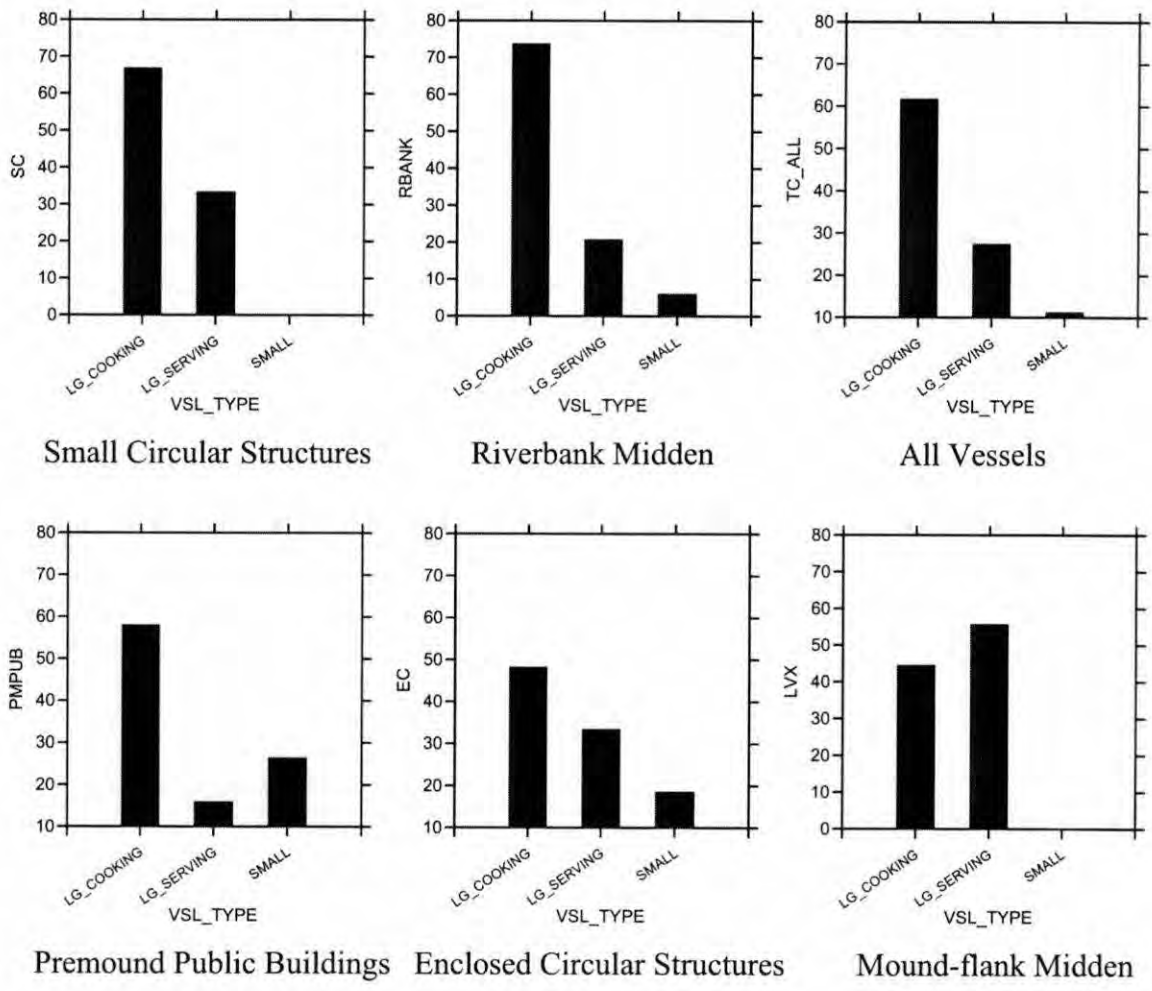


Figure 6.15. Bar charts showing percentages of vessel categories by context (including burial associations).

Table 6.6. Vessel categories by context (including burial associations).

Context	Large Cooking ^a	Large Serving ^b	Small Serving and Cooking ^c
Town Creek (all)	61.6	27.3	11.1
Enclosed Circular	48.1	33.3	18.5
Large Rectangular	100.0	0.0	0.0
Level X	44.4	55.6	0.0
Medium Rectangular	66.7	33.3	0.0
Premound Public	57.9	15.8	26.3
Riverbank	73.5	20.6	5.9
Small Circular	66.7	33.3	0.0

^a Medium open, large open, medium restricted, and large restricted jars.

^b Medium carinated, medium open, large open, and restricted bowls.

^c Small carinated and small open bowls, small open and small restricted jars.

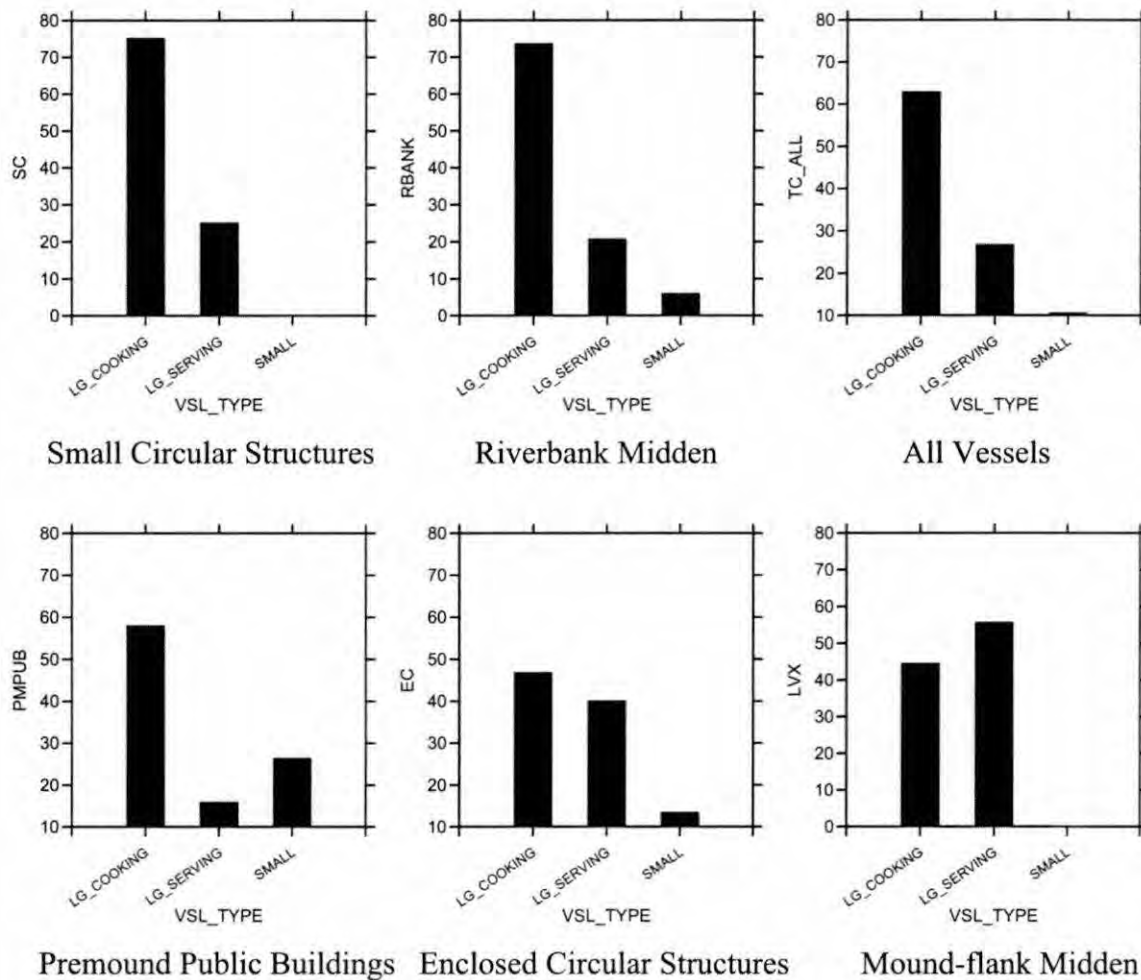


Figure 6.16. Bar charts showing percentages of vessel categories by context (excluding burial associations).

Table 6.7. Vessel categories by context (excluding burial associations).

Context	Large Cooking ^a	Large Serving ^b	Small Serving and Cooking ^c
Town Creek (all)	62.8	26.7	10.5
Enclosed Circular	46.7	40.0	13.3
Large Rectangular	100.0	0.0	0.0
Medium Rectangular	66.7	33.3	0.0
Mound flank	44.4	55.6	0.0
Premound Public	57.9	15.8	26.3
Riverbank	73.5	20.6	5.9
Small Circular	75.0	25.0	0.0

^a Medium open, large open, medium restricted, and large restricted jars.

^b Medium carinated, medium open, large open, and restricted bowls.

^c Small carinated and small open bowls, small open and small restricted jars.

Most of the assemblages consist of at least 60% larger jars, that is medium and large restricted and open jars. The pre-mound public buildings, Enclosed Circular Structures, and the mound-flank midden are distinctive because they all had assemblages consisting of less than 60% large jars. This could be an indication that different food-related activities were being performed in these contexts relative to the rest of the site. It is important that these three distinctive vessel assemblages are from contexts that I have argued are unique based on other evidence (see Chapter 3). Two of these contexts were associated with public buildings beneath and on the mound while the third probably represents kin-group cemeteries.

The pre-mound public buildings have the highest percentage of small serving and cooking vessels (i.e., carinated bowls, open bowls, and small jars) which were probably used for cooking small amounts of food or serving individuals and small groups of people. Overall, there is less of an emphasis on larger-scale cooking in pre-mound public buildings and relatively more of an emphasis on serving and possibly cooking for smaller groups. The emphasis in this assemblage on small-group activities suggests that access to the smaller, pre-mound public buildings may have been restricted. Unfortunately, no rims were definitely associated with the large, rectangular Structures 4a and 23c, so it is unclear what variation may have existed among the pre-mound public buildings.

The overall assemblage associated with Enclosed Circular Structures consists of 48% larger jars. The remainder consists of mostly larger bowls (i.e., medium and large open bowls, restricted bowls), but also includes individual serving vessels. Relative to domestic assemblages, there is less of an emphasis on cooking in Enclosed Circular Structures and more of an emphasis on serving, both individuals and larger groups. This pattern is strengthened when burial associations are removed from consideration.

The mound-flank midden assemblage has the lowest percentage of larger jars at Town Creek. It also has the highest percentage of larger bowls. The mound-flank midden also does not contain any individual serving vessels. Thus, the mound-flank midden vessel assemblage indicates that the mound summit was associated with relatively less cooking and no individual serving, but that the serving of groups was more important than in any other context.

ORIFICE DIAMETER

A boxplot comparing bowl orifice diameters by context shows that size ranges overlap among samples (Figures 6.17 and 6.18). This lack of significant differences for bowls indicates that there was not much variation among contexts regarding the size of the vessels used for serving. This is contrary to the expectation that different activity sets were performed in different structure types (see Chapter 3). This suggests that either there was no variation in the size of the social groups that used different contexts or that the same size range of serving vessels was used, regardless of group size. I suspect that the latter was the case because, based on characteristics of the buildings themselves and in the distribution of functional vessel types, it seems unlikely that there was no variation in group size among contexts.

A boxplot of jar orifice diameters by context (Figures 6.19 and 6.20) reflects a similar pattern with the exception that the jars from the mound-flank midden are significantly larger than those from almost all other contexts. The one exception is Medium Rectangular Structures, a context from which only two rims are present. If contexts with two or fewer sherds are eliminated, then the assemblage of jars from the mound-flank midden is

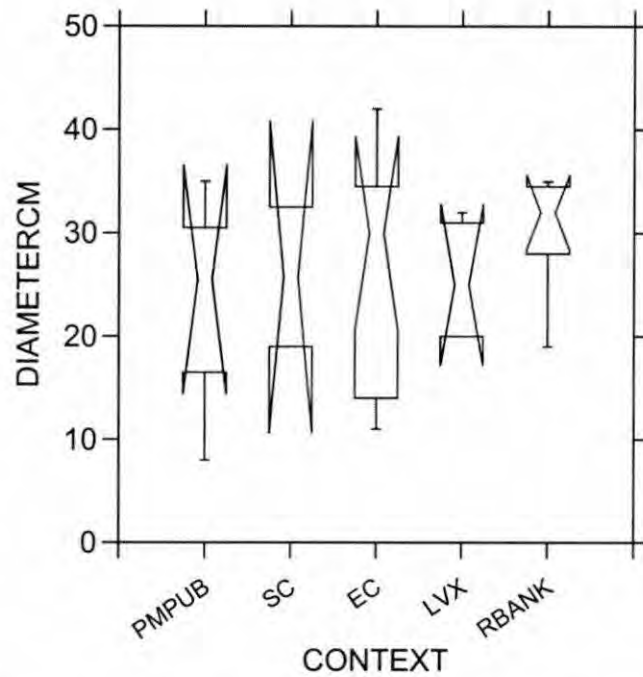


Figure 6.17. Boxplot comparing bowl rim diameters (cm) among contexts (including burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden.

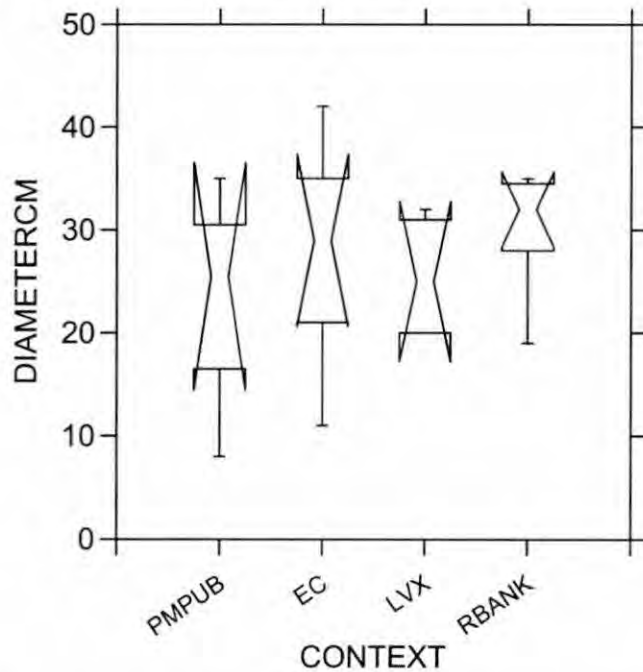


Figure 6.18. Boxplot comparing bowl rim diameters (cm) among contexts (excluding burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden.

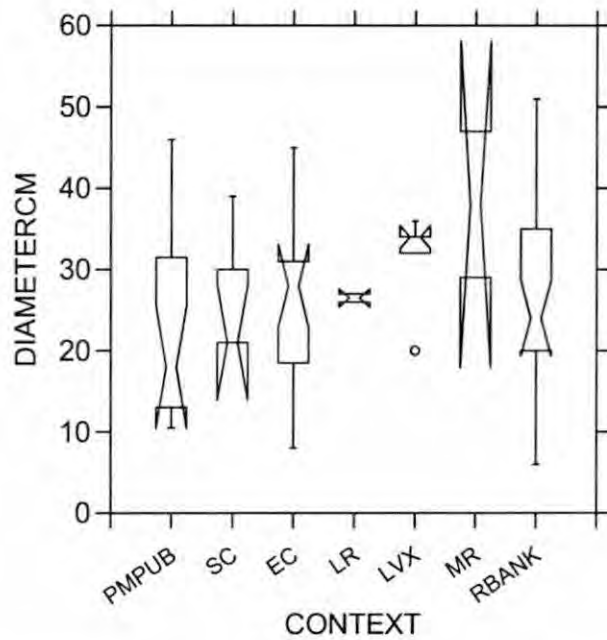


Figure 6.19. Boxplot comparing jar rim diameters (cm) among contexts (including burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, Medium Rectangular Structures, and the riverbank midden.

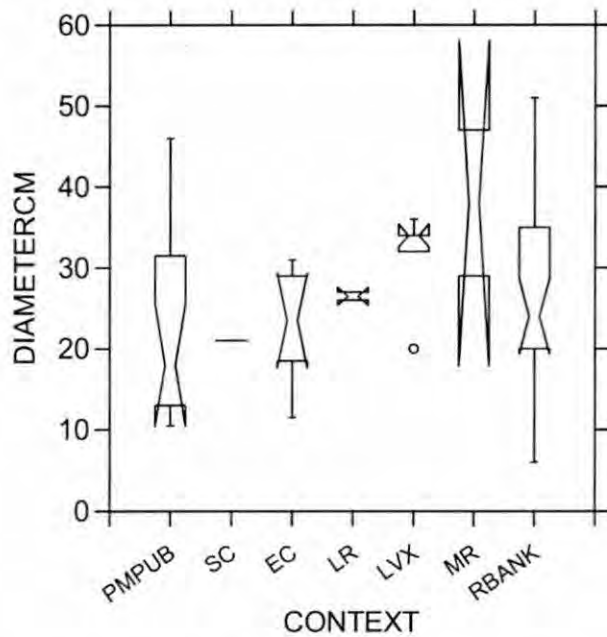


Figure 6.20. Boxplot comparing jar rim diameters (cm) among contexts (excluding burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, Medium Rectangular Structures, and the riverbank midden.

significantly larger than those from all other contexts (Figure 6.21 and 6.22). As discussed previously, differences among assemblages could have been introduced by formation processes rather than behavior. However, a comparison between the mound-flank midden and the riverbank midden, both of which represent trash dumps that were presumably subject to similar formation processes, shows that the jars from the mound-flank midden, which were likely associated with summit activities, were significantly larger than those from the riverbank midden, which likely came from domestic contexts. Histograms based on the same jar data as the boxplots show a break at 30 cm in almost all of the distributions (Figures 6.23 and 6.24). If this 30 cm mark is used to distinguish small and large jars, then it is clear that all contexts except the mound-flank midden are dominated by jars smaller than 30 cm. Thus, it is not that the largest jars at the site were associated with the mound-flank midden, because they clearly are not, but that most of the jars from this midden are larger than 30 cm while most of the jars from other contexts are smaller. Furthermore, jars smaller than 20 cm were not present in the mound-flank midden, but they were present in most of the other contexts.

SUMMARY AND INTERPRETATION OF VESSEL ANALYSIS PATTERNS

The characterization of vessel assemblages by functional type and orifice diameter allows some generalizations about the assemblages and activities associated with different contexts. The domestic assemblage at Town Creek, as indicated by most assemblages and the riverbank midden, is characterized by a high percentage (> 60%) of larger jars and a relatively wide range of vessel sizes. There are three assemblages that are distinctive from the typical domestic assemblage regarding functional types and orifice diameter. These distinctive assemblages are from Enclosed Circular Structures, the pre-mound public

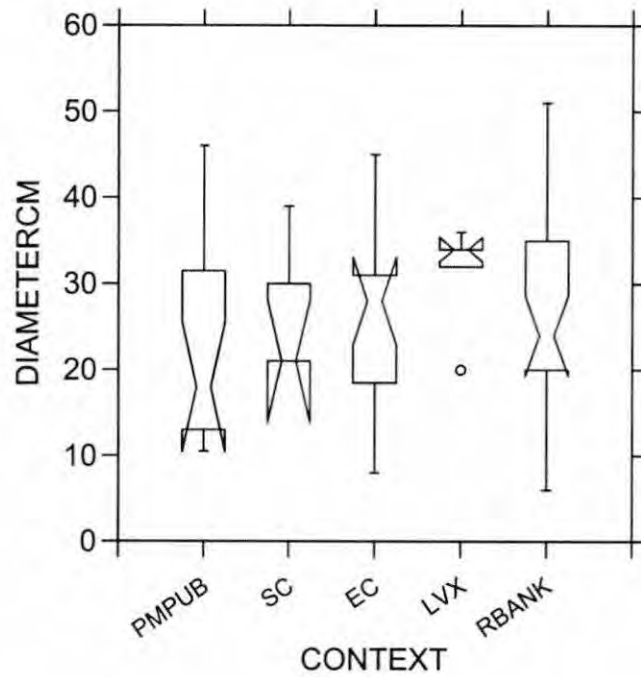


Figure 6.21. Boxplot comparing jar rim diameters (cm) among contexts (including burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden.

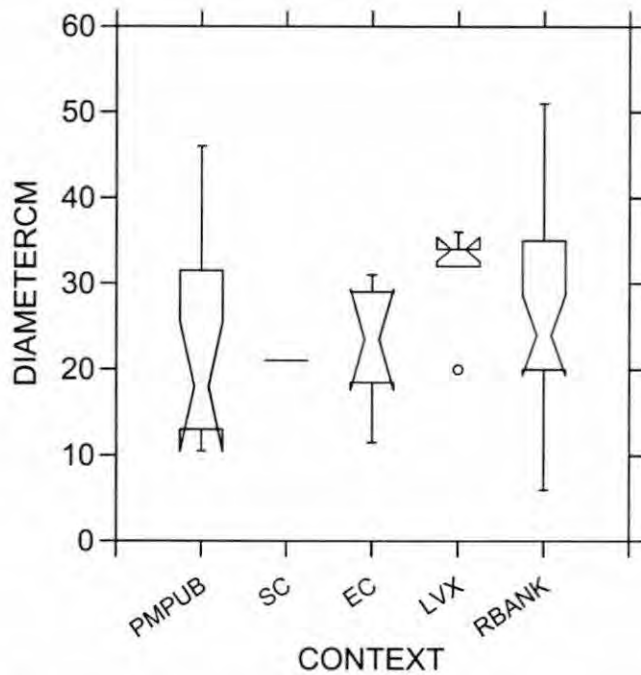


Figure 6.22. Boxplot comparing jar rim diameters (cm) among contexts (excluding burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden.

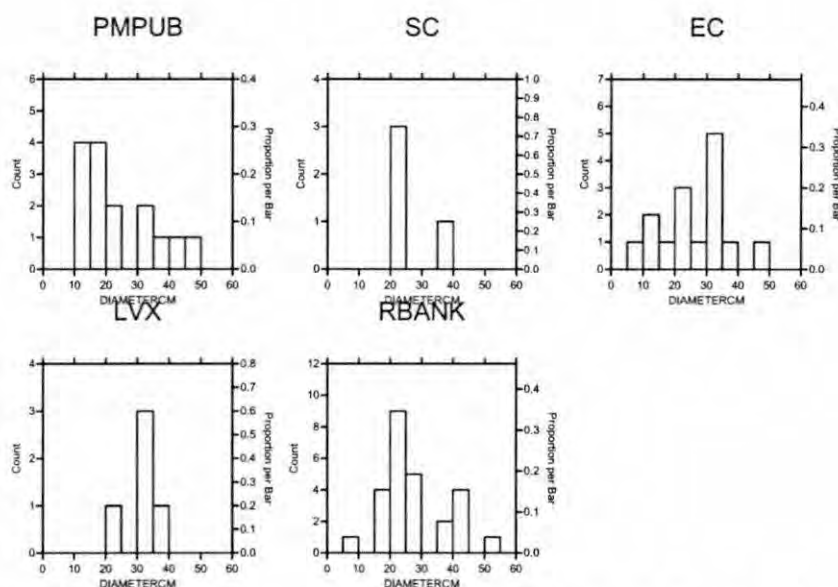


Figure 6.23. Histograms of jar diameter (cm) by context (including burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden.

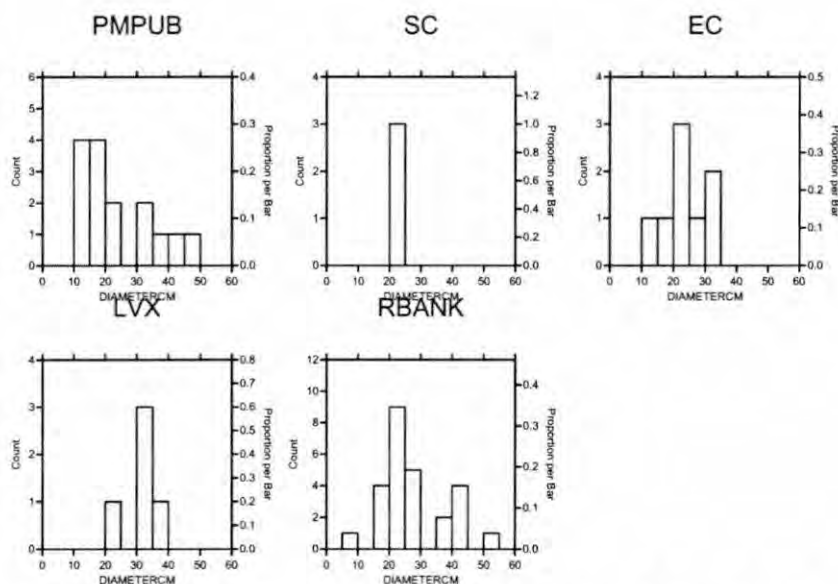


Figure 6.24. Histograms of jar diameter (cm) by context (excluding burial associations): pre mound public buildings, Small Circular Structures, Enclosed Circular Structures, mound-flank midden Level X, and the riverbank midden.

buildings, and the mound-flank midden. The fact that mound area assemblages from pre-mound and post-mound contexts are distinct from domestic assemblages suggests that a dwelling was not located in this area. Therefore, there does not appear to have been an exclusive association between the community's public buildings and the household of a particular individual or family.

Enclosed Circular Structures have a relatively low proportion of larger jars and a relatively high proportion of larger bowls, which indicates an emphasis on the serving of larger groups. That orifice diameters for bowls and jars from Enclosed Circular Structures are not significantly different from those in other contexts indicates that the groups that did meet in these contexts were probably household-size groups. If Enclosed Circular Structures do represent cemeteries that were used by kin-groups, then the vessel patterns indicate that the consumption of food by household-size groups may have been a part of their burial or mourning rituals.

The pre-mound public building assemblage has a relatively lower percentage of larger jars and the highest percentage of smaller serving jars. It also has the lowest percentage of larger bowls. This pattern does not appear to be solely due to formation processes because it is still present in a comparison among structures only, even when burial associations have been removed from consideration. The pre-mound assemblage, which comes largely or exclusively from the smallest sub-mound structures, consists of jars that tend to have smaller orifice diameters than those from other contexts. This does not seem to be solely due to formation processes either because these jars tend to be smaller than those within other structures, even when burial associations are removed. Thus, the vessel function and orifice diameter data suggest that the emphasis in the smallest pre-mound public buildings may have

been on the serving of individuals and small groups with cooking and the serving of larger groups being of relatively less importance.

The mound-flank midden assemblage is the most distinctive at Town Creek. It contains the lowest percentage of larger jars and the highest percentage of larger bowls. It is the only context considered in which individual serving vessels are absent. Thus, it seems that the serving of large groups was one of the most important activities represented in the mound-flank midden. At the assemblage level, the mound-flank midden jars are significantly larger than those from other assemblages. The presence of jars that are significantly larger than those found in domestic contexts, the absence of individual serving vessels, and the near absence of smaller jars indicates that the food-related activities that took place on the mound had as their target audience a much larger group than those that took place in all other contexts. The exact activities represented are less clear, though. The large jars could represent storage vessels, the preparation of food for large groups of people, or both.

The arrangement of public buildings at Town Creek so that one or more smaller, more substantial buildings were paired with a larger, more ephemeral building is similar to the public buildings in some archaeologically and ethnohistorically documented Cherokee and Creek towns which contained a more substantially constructed "winter council house" as well as a more open, pavilion-like "summer council house" or "public square" (Rodning 2002:12-13; Schroedl 1986:219-224; Waselkov and Braund 1995:102-105). In several Cherokee communities, the summer council house adjoined the winter council house with the two being connected by an enclosed entryway (Rodning 2002:Figure 3; Schroedl 1986:223 and Figure 4.2). Among the Creeks, differences in access existed between the two types of council house. Bartram (Waselkov and Braund 1995:105, Figures 21 and 22) identified one

of the buildings on the public square in a Creek town as an open, pavilion-like summer council house where the chiefs, warriors, and citizens of the town assembled to discuss political matters (Waselkov and Braund 1995:104-105). The back of this building was enclosed and accessible only through three small entrances through which one had to crawl upon hands and knees. The enclosed back portion of this structure was used to store sacred objects that included rattles, a calumet pipe, and a pot for making medicine (Waselkov and Braund 1995:105). According to Bartram, access to this enclosed area was limited to the chief, the war-chief, and the high priest with any transgression of this being punishable by death (Waselkov and Braund 1995:105). An adjacent building on the public square was a banqueting hall that accommodated spectators, "particularly at feasts or public entertainments" (Waselkov and Braund 1995:105).

Based on proscriptions recorded by Bartram and the interpretation that the mound-summit midden at Dyar may represent the remains of feasting (Smith 1994:38), there seems to have been a difference in accessibility between larger and smaller paired, public buildings, with the larger, more open buildings being relatively more accessible and the smaller, more enclosed ones being less accessible. While the recovery of measurable rims was such that contemporary large and small public buildings could not be compared, the vessel data suggest that paired large and small public buildings at Town Creek also were more and less accessible, respectively. The vessel assemblage from the smaller, pre-mound public buildings has the highest percentage of small cooking and serving vessels, suggesting that these structures were used by small groups. In contrast, the emphasis on large vessels in Level X and the total absence of small vessels indicates that large-group activities produced that assemblage. I assume that Level X represents the refuse associated with a large mound-

summit building based on the association of a midden possibly from feasting with a large, rectangular structure on the summit of the Dyar mound (Smith 1994:38).

The distribution of functional types and the comparison of orifice diameters suggest that mound-summit activities at Town Creek, at least during the late Town Creek phase, were characterized by food-related activities that involved larger groups of people. Large-scale storage and feasting are two activities that have been associated archaeologically and ethnohistorically with community leaders and public buildings in the Southeast (Blitz 1993a:72, 1993b; Kenton 1927:341, 430-431; McWilliams 1988:88; O'Neill 1977:244; Taft 1996:56-57). The large jars could have been used for communal storage, but the high proportion of larger bowls indicates that food consumption was an important part of these activities. Also, the functional analysis indicates that most larger jars were used for cooking. Therefore, it seems likely that the mound-flank assemblage represents the remains of feasting. Ethnographically, large-scale meals, or feasts, can take a number of forms and serve a variety of purposes (Hayden 2001). They can emphasize social cohesion by establishing and maintaining social ties (Hayden 2001:29; Knight 2001:328). They can also be used as venues for establishing and perpetuating social inequality (Hayden 2001:35; VanDerwarker 1999:24). Among native Southeastern groups, the gathering of community members for feasts was an important and regular part of social and ritual life (Swanton 1979:264; Waselkov and Braund 1995:125). The best-known example of feasting is the communal feast that occurred as part of the annual world renewal rite known as the Green Corn ceremony, an event that did not perpetuate social inequality (Hudson 1976:365; Knight 2001:328).

If feasting took place on the mound summit at Town Creek, it could have been a communal event that fostered social cohesion, a sponsored event that promoted the interests of an individual or particular group such as a lineage, or it could have been some combination of the two. Among historic Southeastern Native societies, group identity was strongly tied to the community's public building or townhouse (DePratter 1983:63; Rodning 2002:10) and a feast located in an analogous context—such as in the public space on the mound summit—at Town Creek also could have been associated with maintaining relationships within the community. The alternative, or perhaps complementary, use of the mound summit at Town Creek for an event that was sponsored by an individual or group would be consistent with a situation in which new political roles were being negotiated. A common way worldwide for leaders to attract and maintain a following in contexts where political roles are not institutionalized is by sponsoring feasts in public places (Dietler 2001:66; Hayden 2001; Kantner 1996:60; Whalen and Minnis 2000:177).

Whether the events that took place on the mound were communal, sponsored, or some combination of the two, the vessel analysis indicates that the place where community-wide political decision-making took place was accessible after mound construction. This runs counter to the earthlodge-to-mound model which proposes that platform mounds indicate an increase in the centralization of political power in which the loci of political decision-making and the decision-makers themselves became less accessible (Anderson 1994:120, 1999:220; DePratter 1983:207-208; Wesson 1998:109). Although there certainly were social and political distinctions among individuals and kin groups in the community at all times at Town Creek, it appears that the mound was built at a time when there was not an

exclusive association between these distinctions and public architecture. While leadership roles existed, it seems that their continuation required the community's support and consent.

Endnotes to Chapter 6

1. Some vessels from Enclosed Circular and Small Circular Structures were grave goods that were intentionally placed with individuals at the time of their burial. The assemblages from the pre-mound public buildings as well as the Enclosed Circular, Small Circular, Medium Rectangular, and Large Rectangular structure types came from features and nonfeature deposits located within buildings. The rims that came from the fill of features may represent refuse that was intentionally discarded in pits. However, since there are few trash-filled features at Town Creek, most of these rims probably represent primary refuse (LaMotta and Schiffer 1999:21; Schiffer 1987:58), sherds that were lost during the course of daily activities and incorporated into structure floors. These sherds were probably within the soil matrix of structure floors and they made their way into feature and burial fill as incidental inclusions when pits were excavated and filled. This especially would have been true for burial fill since these pits would have been excavated and filled in a relatively short period of time. It is likely that the sherds from nonfeature contexts, that is, general excavation levels, within structures also represent primary refuse. The sherds from the mound-flank midden Level X and the riverbank midden came from accumulations of intentionally discarded debris. Level X is a midden that was located along the southern flank of the mound. This context dates to the late Town Creek phase and it probably represents debris associated with the buildings on the summit of the first mound stage (see Reid 1985; Smith and Williams 1994). The mound-flank midden sherds used in this analysis include some that were excavated in the field as Level X and some from a mound-flank midden, that seems to be the same as Level X, encountered by Coe (1995:62-63) in his first test pit into the mound in 1937 (Figure 3.32). The riverbank midden is a deep, stratified deposit located along the west bank of the Little River. The depth and density of the riverbank midden indicates that it may represent a communal trash dump.

Chapter 7: Conclusions

Town Creek clearly was an important place in the Pee Dee River valley for thousands of years. Stone tools indicate that the site was first occupied during the Early Archaic period (8000-6000 B.C.) (Coe 1995:Table 10.1) and European trade goods indicate a Native American presence at the site, at least intermittently, through the Protohistoric Caraway phase (A.D. 1500-1700). The presence during the Late Woodland period (ca. A.D. 800-1000) of burials within an enclosure and the apparent repetitive placement of burials, pits, and postholes within a circular ditch feature suggests that the performance of mortuary rituals may have been an important activity at Town Creek during this time. This would be consistent with the importance of mortuary ritual that is known to have existed in numerous Woodland societies across the Southeast (Steponaitis 1986:379).

These more prominent archaeological signatures at Town Creek during the Late Woodland period indicate that activities at this time were more intense and of a longer duration than previously in the site's history. It is possible that local populations were increasing and becoming more sedentary. The Late Woodland structure at Town Creek may have been covered with a low mound similar to those found in the Late Woodland and Early Mississippian burial-mound tradition in the Sandhills region just to the east of the site (Irwin et al 1999; Ward and Davis 1999:206-210). As increases in population and sedentism possibly led to a "filling" of the landscape in some parts of the Southeast at this time, there may have been an increasing association between groups of people and particular territories

(Muller 1997:136-137). Some of the ways a group could have marked its territory include the construction of monuments and the interment of burials, both of which would have provided tangible, immutable evidence of affiliation and ownership (Charles and Buikstra 1983:117; Schroedl and Boyd 1991:83). If the Late Woodland structure at Town Creek had been covered after its destruction by a mound, this monument may have served as a marker of tenure for a group of people living in the vicinity. The act of interring individuals within the Late Woodland structure and essentially turning it into a cemetery could have been a statement about the strength of the group's ties to Town Creek and its vicinity. There is little evidence that this Late Woodland group actually lived at Town Creek, although the intensity and nature of the Late Woodland and other pre-Pee Dee components at the site were only peripheral to this research and are deserving of a much fuller investigation. If there was not a Late Woodland settlement at Town Creek, and the site instead consisted solely of a ritual structure that was later covered by a mound, this would be consistent with the fact that the Sandhills burial mounds are not located near known habitation sites (Irwin et al 1999:80; Ward and Davis 1999:207). Thus, it is possible that during the Late Woodland period Town Creek was a small, largely vacant ceremonial center that was used intermittently for mortuary ritual by a group that lived in the vicinity or within a territory that included the site.

The amount of time between the Late Woodland and early Town Creek-phase components is unknown, as is the nature of the activities that took place at Town Creek during this interval. The Late Woodland building at Town Creek appears to have been incorporated into the design of the early Town Creek-phase community, suggesting that there was not much of a time difference between the building's use and the founding of the Mississippian town. The fact that the Late Woodland and Mississippian occupations both

include circular enclosures in which burials were placed suggests continuity between the populations. This contrasts with Coe's (1952:308) initial view of Town Creek's Pee Dee occupation as a cultural intrusion reflecting the migration of people from the Coast into the Piedmont. Although I have not directly tested this idea—and there are indeed methods for doing so (see Blitz and Lorenz 2002)—the apparent continuity between the Late Woodland and early Town Creek-phase occupations of Town Creek would be consistent with the latter developing from the former.

Town Creek may have been occupied during the Teal phase (A.D. 900-1050; cal A.D. 1000-1150). There are several unexcavated or partially excavated architectural elements in the northern part of the site, including palisade lines in the plaza, that probably predate the early Town Creek phase. Future excavations should focus on these elements so that the period that may represent the earliest Mississippian occupation of the site can be better understood.

The major Mississippian occupation of Town Creek began with the establishment of a town during the early Town Creek phase (A.D. 1050-1250; cal A.D. 1150-1250). This settlement consisted of a number of circular houses surrounding the north, south, and east sides of a plaza. The plaza itself contained a large circular enclosure possibly with large posts and a small structure near its center. The circular monument and some of the large posts may have served as a world center shrine and an *axis mundi* (Hall 1996:125; Knight 1985:107). The entire settlement was surrounded by a palisade that was probably rebuilt several times during the Town Creek phase. A series of superimposed, rectangular, public buildings representing at least three construction episodes was located on the west side of the plaza. At least two and perhaps all three of these episodes consisted of a larger, rectangular

building and a smaller, square building. The final set of pre-mound public buildings at Town Creek consisted of a small, square, earth-embanked structure to the west, away from the plaza, joined by an entrance trench to a large, rectangular, lightly constructed structure to the east adjacent to the plaza. Two of the three smaller, square, sub-mound buildings at Town Creek were clearly earth-embanked. These two structures are similar to public buildings found across the Southeast during the Etowah (A.D. 1000-1200) and Savannah (A.D. 1200-1350) periods. These earthlodges represent the earliest public architecture at many of these sites and, as also was the case at Town Creek, many of them were subsequently covered by the construction stages of a platform mound (Crouch 1974; Ferguson 1971:192-193; Rudolph 1984:33-34).

The construction of an earth-embanked structure across from the mound on the eastern side of the plaza at the end of the early Town Creek phase established a public axis that was maintained throughout subsequent occupations. This axis bisected the site along a southwest-northeast line. Public architecture (e.g., the sub-mound public buildings, circular enclosure, large postholes, and earth-embanked structure next the river) was placed on and sometimes oriented to this axis while houses were located to the north and south of this line.

A significant change occurred within the sphere of public architecture during the late Town Creek phase (A.D. 1250-1300; cal. A.D. 1250-1300) with the construction of a platform mound approximately 5 ft in height on the western end of the plaza. Although the construction of a platform mound was a major change, there is clear continuity with the pre-mound public buildings in that the mound covered these earlier buildings and was oriented the same way. Although the first mound summit was not reached by excavations, it is likely—based on the pre-mound buildings, those on subsequent mound summits, and those

at other South Appalachian sites (Polhemus 1987; Smith 1994)—that the structures located on the late Town Creek-phase mound summit consisted of one or two small, square, earth-embanked buildings on the west side of the summit and a large, rectangular, more ephemeral building located on the east side. Two mound stages were added during the Leak phase, but they were much smaller than the initial episode of mound construction. Each Leak-phase mound stage contained an identical arrangement of two small, square structures joined by an entrance trench on the west side of the summit. Although the eastern part of the summit was not present because it had been destroyed by looters, it probably contained a large, open, rectangular structure. Each of the structures that was present had been burned (Coe 1995:81-82), perhaps as part of a ritual destruction intended for public spectacle (see Creel and Anyon 2003:77).

The public axis established during the early Town Creek phase was maintained after mound construction. The large, circular enclosure in the plaza was removed at some point during the Town Creek phase, although it is likely that one or more of the large posts in the plaza remained. It is possible that the largest postholes, those with extraction-insertion ramps, were correlated with mound construction episodes as there are five such posts and at least four mound-construction stages (David Hally, personal communication 2004). The extraction-insertion ramps adjacent to several of the large postholes in the plaza are perpendicular to the site's public axis. A large, rectangular enclosure that surrounded a square structure and two burial clusters was built on the public axis on the eastern side of the plaza adjacent to the riverbank. This enclosure appears to have been oriented relative to two burials that were aligned with features of premound public buildings across the plaza. While the activities performed within the rectangular enclosure are unknown, this clearly was a

special location and the enclosure denotes an intent to demarcate and possibly restrict access to this part of the site.

New structure types appeared after mound construction during the late Town Creek phase on the north and south sides of the plaza. One type was a large, rectangular structure that contained a few, well-spaced burials across its interior. The other was a large, circular enclosure that surrounded a densely packed cemetery with a large number of burials. Structures of these two types do not overlap and they appear to alternate around the edge of the plaza, suggesting that adjacent structures of each type may have been paired together to form a functional unit. It appears that at least four such pairs existed at Town Creek, although patterns are less clear in unexcavated portions of the site.

The fact that the rectangular structures and enclosed cemeteries were located in the domestic portion of the site suggests that they were used by the same lineages that had occupied this area during the early Town Creek phase. It is likely that at least some of the enclosed cemeteries used during the late Town Creek-Leak phases actually began as the locations of houses during the early Town Creek phase. If four or more pairs of rectangular structures and enclosed cemeteries existed at Town Creek, this would approximate the number of clan-based lineages known to have existed in some historic native communities in the Southeast (Gearing 1958:1150; Knight 1990; Swanton 1993:79).

Although the structures to the north and south of the plaza may have been used by the same kin-based groups that lived in these locations during the early Town Creek phase, there is no evidence for clearly domestic architecture in any of the excavated portions of Town Creek following mound construction. Instead, it seems that ancestral house sites were preserved by kin groups through the maintenance of an enclosed cemetery and through the

construction of an adjacent rectangular structure that, based on its size, may have served as a meeting place for the kin group. Mortuary data suggest that burial within the enclosed cemeteries was open to all members of the kin group while burial in the rectangular structures was restricted to a subset of the group. The maintenance of house sites for long periods of time has been recognized in other Mississippian communities and the perpetuation of former house sites as enclosed cemeteries at Town Creek may represent “the physical expression of an ideological emphasis on household identity and continuity through time” (Hally and Kelly 1998:61).

At the large Mississippian site of Moundville in Alabama, pairs of mounds have been interpreted as having supported a mortuary temple and a public building that was an elite residence associated with a particular corporate group (Knight 1998:51-54). These mound pairs are seen as the modular units that collectively constitute Moundville’s impressive configuration of platform mounds (Knight 1998:52). It is plausible that a similar situation existed at Town Creek during the late Town Creek-Leak phases (A.D. 1250-1350; cal. A.D. 1250-1350) with the plaza being surrounded by pairs of structures—consisting of a mortuary facility and a public building—that were associated with individual corporate groups.

The reasons for the changes in architecture to the north and south of the plaza are unclear. The absence of domestic architecture during the late Town Creek-Leak phases suggests that residents of the Town Creek community were dispersed at that time beyond the bounds of the original settlement. At present, the degree of population dispersal is unknown. People could have moved well away from Town Creek and been living in settlements in the surrounding area, or they could have been living just beyond the limits of excavations only tens of feet from the plaza. Although answering this question is a research project in itself

and will not be resolved here, determining the degree of population dispersal that occurred following mound construction could be addressed with survey data from the surrounding area—a great deal of which already exists at the RLA—and systematic testing (e.g., shovel or auger) of the terrace beyond the limits of excavations at the Town Creek site. If populations were more scattered during the late Town Creek-Leak phases, then the rectangular structures and enclosed cemeteries located along the plaza may have been the loci of rituals and gatherings that served the purpose of maintaining ties within these more dispersed groups.

The character of Town Creek following mound construction may have shifted from the presence of houses around the whole site and large-scale mound construction to much smaller mound stages and the absence of any clearly domestic structures. If population decreased at Town Creek following the appearance of the mound, then the decreased level of mound construction that occurred may have been correlated with the declining size of the resident population. The vast majority of the mound was built during the early Town Creek to late Town Creek phase transition (ca. A.D. 1250) when multiple houses were occupied while much smaller constructions stages were added during the Leak phase when the resident population may have been much lower. The relationship between the large, rectangular structures and enclosed cemeteries around the plaza may have been that the former were places where corporate groups met for integrative events while the latter were kin-based cemeteries. If this was the case at Town Creek, then the shift in focus from domestic to ritual activities would parallel the developmental sequence for Moundville, which initially had a large resident population and later became a necropolis to which the dead from surrounding communities were brought for burial (Knight and Steponaitis 1998:18-19; Steponaitis 1998).

Furthermore, Town Creek has been interpreted as a vacant ceremonial center devoted primarily to mortuary ritual (Coe 1995:264-268; Oliver 1992:60). This is an interpretation that many, myself included, have seen as inconsistent with the evidence (Ward and Davis 1999:133). While this interpretation does not fit with the early Town Creek-phase data, the view of Town Creek as a ceremonial center may not be far from the mark for at least one part of its Mississippian occupation—the late Town Creek-Leak phases.

There are clear connections between the mound and the rectangular enclosure. Both are oriented the same and both are located along the site's public axis. Additionally, the most unusual artifacts in the postmound-construction community were associated with burials in these two contexts. It is possible that the mound and rectangular enclosure had an analogous relationship to that between the large, rectangular structures and the enclosed cemeteries, with the mound serving as a public building and the rectangular enclosure being some sort of mortuary facility. A relationship between mound-summit buildings and mortuary structures has been documented both ethnohistorically (O'Neill 1977:240) and archaeologically (Blitz 1993:96; Knight 1998:52; Schnell et al 1981:Figures 2.3 and 2.6) at other Mississippian sites.

Little can be said about the late Leak-phase (ca. A.D. 1350-ca. 1450; cal. A.D. 1350-1450) occupation at Town Creek. At least three square structures with their corners oriented to the cardinal directions were located around the plaza. These three structures appear to be aligned with each other on at least two sides of the plaza. It is possible that small-scale mound construction continued during the late Leak phase, but the upper portions of the mound were too disturbed to define any summit architecture from this occupation. It is likely that the Mississippian occupation at Town Creek ended some time before A.D. 1450.

Town Creek appears to have had a robust Mississippian occupation during the thirteenth and fourteenth centuries but likely was abandoned some time during the fifteenth century. This fits with a broader pattern of population reorganization and movement in the Southeast at about A.D. 1450 in which many sites—including those along most of the Savannah River Valley—were abandoned (Anderson 1994:326). Such regional-scale abandonment may correlate with prolonged periods of drought that would have undermined the maize-based political and subsistence economies of local Mississippian societies (Anderson 1994:327; Anderson et al. 1995). It is possible that Town Creek, which is located less than 200 miles from these areas, was affected by the same conditions. Whatever the reasons for site abandonment may have been, the Mississippian occupation of Town Creek appears to have ended at some time during the fifteenth century.

IMPLICATIONS FOR MISSISSIPPIAN RESEARCH

An important assumption underlying many interpretations of Mississippian societies is that the presence of a mound signifies major differences in population dynamics as well as social and political organization (Anderson 1994:80; Hally 1999; Holley 1999:33-35; Lewis and Stout 1998:231-232; Lindauer and Blitz 1997; Milner and Schroeder 1999:96; Muller 1997:275-276; Steponaitis 1978, 1986:389-392). The architectural and mortuary patterns from Town Creek indicate that changes were associated with mound construction. The mound appears at or about the same time that corporate-group public buildings replaced houses around the plaza. Mortuary data indicate that there were changes in the nature of leadership between the premound-construction and postmound-construction communities at Town Creek. The differences in the composition of the burial populations between

pre-mound and post-mound public buildings, with an emphasis on older and mature adults in the former and young adults in the latter, coupled with the presence of new artifact types suggests that the people buried in public spaces following mound construction occupied new social and political roles. An early Town Creek-phase political organization that was more diffuse and representative and that could still be seen as equal to or less important than family and household ties was replaced after mound construction by a form of social and political organization in which some individuals—primarily young adults—were clearly distinct and their ties to a community-wide status, which seems to have been closely related to ritual activities, were more important than their ties to family and household.

While there are clear differences between the pre-mound and post-mound communities at Town Creek, they do not necessarily fit with the expectation that mounds signify hierarchical social and economic relationships. Making a distinction between “elites” and “nonelites” has become an important part of how we investigate Mississippian societies (see Maxham 2000:337-338; Muller 1997:47-50; Steponaitis 1986:389-390). There are a number of cases in the ethnohistoric literature (Butler 1934; Clayton et al 1993; Kenton 1927; McWilliams 1988; O’Neill 1977) and archaeological record (Brown 1971:101; Fowler et al. 1999:187-188; Knight and Steponaitis 1998:18; Peebles and Kus 1977:439) of native Southeastern societies in which there seem to be clear, hierarchical social distinctions between different groups of people. At Town Creek, such stark distinctions are absent from the archaeological record. The differences that do exist are more subtle and relative, although they were surely important to the residents of the Town Creek community. Some people were “elite” in a relative sense in that they were afforded burial in public places, were associated with unique artifacts, and played important roles in community rituals. There is

no evidence, though, that these same people lived substantially different lives than anyone else in the community (see Muller 1997:47-48). This is consistent with numerous ethnohistoric observations of egalitarian village societies in which community leaders were recognized as such and were treated with a certain amount of deference in particular contexts (e.g., council meetings), but that they were treated normally outside of these contexts and were largely indistinguishable from other community members in dress and possessions (Moore 1988:32, 33, 44, 64; Waselkov and Braund 1995:117, 118, 147; Williams 1930:459-460).

There also is no indication that the construction of the mound at Town Creek was accompanied by the centralization of political power. A consistently cited expression of political power in Mississippian societies is the ability of leaders to place their residence on the summit of a platform mound (Brown 1997:475; Milanich et al 1997:118; Steponaitis 1986:386) with the clear statement being that this person was now associated with a symbol of group identity (Knight 1989b:287) and the locus of political authority (Hally 1996, 1999; Knight 1998:60). Ethnohistoric accounts of the Natchez indicate that the chief was identified with the mound on which he lived and that both were treated with the same respect, fear, and deference (Kenton 1927:341 and 431). If the mound summit at Town Creek was the location of the community leader's residence, then the construction of the platform mound over earlier public buildings could be interpreted as a statement about increasing political authority—as proposed in the earthlodge-to-platform mound model (Anderson 1994:119-120, 1999:220; DePratter 1983:207-208; Rudolph 1984:40). There is little evidence for the increased centralization of political authority at Town Creek, however, if the leader's

residence was not located on the mound, but was instead amongst other domestic structures, as was the case during the early Town Creek phase before the mound was built.

Although it is generally accepted that mounds were the loci of elite residences (Holley 1999:28; Lewis et al 1998:17; Payne 1994:155; Steponaitis 1986:390), mound functions were variable (see Blitz 1999:583; Knight 2004:318-319; Lindauer and Blitz 1997:175-176) and there is no compelling reason to think that all mounds by default supported residences. One reason to think that the buildings on the mound summit at Town Creek were not domestic is that the burial populations associated with them are demographically restricted, unlike the much more representative populations associated with the circular structures and enclosed cemeteries around the plaza that were likely associated with households and kin-based groups. Another indication that the summit buildings were not domestic is that their configuration was likely very similar to those of the public buildings that immediately preceded mound construction, all of which were clearly distinct in several ways from contemporaneous domestic structures. The last set of premound public buildings at Town Creek consisted of a large, relatively open area for the gathering of large groups and an adjacent, more restricted structure accessible only to a subset of the community. The vessel data from the mound summit are not consistent with the idea that a residence was located there or that the summit—as the locus of community political authority—was less accessible. Instead, the vessel data suggest that the mound summit was the site of feasting with the target audience being large groups of people. Collectively, the components of the submound and mound-summit public buildings at Town Creek do not resemble houses but instead are reminiscent of historically documented sets of public buildings in the Southeast that consisted of a large pavilion used for public meetings that

involved feasting and an enclosed building to which access was limited (Waselkov and Braund 1995:104-105, Figures 21 and 22).

The inference that mound construction can be equated with political centralization is based on the idea that a residence was placed on a mound that had covered an earlier form of public architecture in which political decisions were made through consensus. If the rectilinear public buildings located on the west side of the plaza at Town Creek began as nonresidential, public buildings and continued as such at least through the Leak phase, then the premise of the earthlodge-to-platform mound model upon which political centralization is inferred is not applicable at Town Creek. While I would not argue that the earthlodge-to-platform mound transition at other sites occurred in exactly the same way, the patterns at Town Creek raise the question at how many other Mississippian mound sites is the model not applicable?

Town Creek is a relatively small mound site located on the periphery of the Mississippian world. As such, one could argue that the findings presented here on social differences and community development are of limited utility for more "typical" Mississippian sites. I argue, however, that the subtle manifestations of social and political differences at Town Creek are important to current Mississippian studies, perhaps more so than the models of hierarchical social relationships that currently dominate our research. When the entire Mississippian world is considered, there are few clear cases of hierarchical social differences that were also imbued with differences in wealth and power and there is little evidence to support the idea that such relationships were typical (see Muller 1997:396-399). This is not to say that social differences did not exist, because they clearly did. Indeed, the mortuary patterns at Town Creek are consistent with the idea that some people occupied

distinctive social and political statuses. However, I believe that there is a tendency to exaggerate the power and privileges that may have been associated with the upper end of these social and political differences. The patterns at Town Creek may, in fact, be more typical of the overwhelming majority of Mississippian mound sites that are exactly like Town Creek, relatively small with a single platform mound (Blitz and Livingood 2004:Figure 7; Payne 1994:80). Unless one assumes that all of these single-mound sites were embedded within the settlement system of a complex chiefdom, an interpretation that has been called into question (see Blitz 1999), then the patterns at Town Creek are likely more reflective of those that existed within a “typical” Mississippian society than are the truly exceptional manifestations of social differences documented archaeologically at Cahokia and Moundville and ethnohistorically among the Natchez.

* * *

I have taken a coarse-grained approach to the study of Town Creek in an attempt to sketch out a history of the native communities that existed there between roughly A.D. 800 and 1700. I see the chronology and community history that I have proposed as models—simplified arrangements of the patterns represented in large amounts of data. I also see the chronology and community history as starting points—models that will be tested, revised, and ultimately reformulated as new data emerge or different perspectives are brought to bear on the data at hand. Significant research potential remains in the existing collections from Town Creek. While I have attempted to take as broad of an approach as possible, there are entire artifact classes—such as stone tools and pipes—that were not incorporated into my research. Also, existing data from Pee Dee sites in the vicinity of Town Creek can be used to

test and revise the interpretations that I have offered. The potential to test my interpretations through new data collected at Town Creek is virtually limitless because many of the features that were documented there have been preserved for future research. Whoever does fieldwork at Town Creek next will have the luxury of knowing where a number of unexcavated structures are located.

Town Creek is important, both to the history of archaeology and to the study of native groups in the Southeast. Joffre Coe's initial work at Town Creek and his vision for long-term research at the site set a course that profoundly affected the direction of the Research Laboratories of Archaeology at the University of North Carolina, the development of a number of archaeologists that went on to careers in the Southeast and beyond, and North Carolina archaeology as a whole. His legacy as well as that of all the people who ever worked at Town Creek—from the field directors to the now anonymous WPA laborers—endures to this day as Town Creek Indian Mound State Historic Site. This legacy also endures in the important research collection, generated by decades of fieldwork, which will be a significant resource for the investigation of Native Americans in North Carolina and the Southeast for generations to come.

Context	Age ^a	Age Class	Sex	Burial Type	NAT	Artifacts
Late Woodland						
Structure 18 (Mg3)						
Bu. 128	> 18 y	young adult	male?	flexed	1	cache of flakes
Bu. 134	10 ± 3 y	adolescent	youth	ind.		
Bu. 135	> 30 y	mature adult	male	flexed	2	2 stone pipes; 1 carved stone face
Bu. 136	13 ± 2.5 y	adolescent	youth	flexed		
Bu. 152	> 18 y	young adult	male?	flexed		
Bu. 153	30 ± 5 y	mature adult	male	flexed		
Bu. 154	40 ± 10 y	older adult	male	flexed		
Small Circular						
Structure 2 (Mg2)						
Bu. 33	> 18 y	young adult	male	flexed	1	1 chipped stone projectile point
Bu. 34	40 ± 5 y	older adult	male	flexed	1	1 small columella bead
Bu. 35	no bones taken	ind.	youth	urn	3	marine shell beads; 1 ceramic urn and cover
Bu. 52	13 ± 2.5 y	adolescent	youth	flexed		
Bu. 53	> 21 y	young adult	female	flexed		
Bu. 53a	1 m	child	youth	not recognized in field		
Bu. 54	> 30 y	mature adult	male	flexed		
Bu. 55	26 ± 7 y	mature adult	female?	extended		
Bu. 56	6 ± 2	adolescent	youth	ind.		
Bu. 57	19 ± 3 y	young adult	female?	flexed		
Bu. 58	> 15 y	young adult	ind.	ind.		
Structure 5a (Mg2)						
Bu. 2b	> 18 y	young adult	male?	ind.		
Bu. 8	> 30 y	mature adult	female?	flexed		
Bu. 9	na	na	na	no drawing		
Bu. 37	> 15 y	young adult	ind.	flexed		
Bu. 38	> 18 y	young adult	female	flexed		
Bu. 39	6 ± 3 m	child	youth	flexed		
Bu. 47	> 30 y	mature adult	ind.	flexed	1	7 copper fragments
Bu. 51	na	na	na	ind.		
Structure 6 (Mg3)						
Bu. 129a	13 ± 3 y	adolescent	youth	flexed		
Bu. 129b	> 21 y	young adult	male	no notes		
Bu. 130	27 ± 6 y	mature adult	female	flexed		
Bu. 130a	2y ± 8 m	child	youth	flexed		
Bu. 130b	18 ± 6 m	child	youth	not recognized in field		
Bu. 131	> 21 y	young adult	female?	flexed		
Bu. 131a	2y ± 8 m	child	youth	not recognized in field		
Bu. 132	> 21 y	young adult	female	flexed	1	1 chipped stone projectile point
Bu. 137	42 ± 5 y	older adult	female	flexed		
Bu. 138	12 ± 2.5 y	adolescent	youth	flexed	2	32 small columella beads; 1 pottery pipe

Context	Age	Age Class	Sex	Burial Type	NAT	Artifacts
Bu. 139	few bones taken	ind.	ind.	flexed		
Bu. 140	> 18 y	young adult	ind.	flexed		
Bu. 141	17 ± 2 y	young adult	female?	extended		
Bu. 142	45 ± 7 y	older adult	female	flexed		
Bu. 142a	4.5 + 1	child	youth	no notes		
Bu. 143	> 30 y	mature adult	male	flexed		
Bu. 144	2 y ± 8 m	child	youth	flexed		
Bu. 145	> 21 y	young adult	female?	ind.		
Structure 12 (Mg3)						
Bu. 6	> 30 y	mature adult	ind.	flexed	1	2 rocks
Bu. 12	25 ± 5 y	mature adult	female?	flexed	1	1 quartzite pebble
Bu. 13	5 y ± 16 m	child	youth	ind.		
Bu. 15	9 ± 3 m	child	youth	um		
Bu. 16	no bones taken	child	youth	um	2	1 ceramic um; 1 pebble
Bu. 17	> 30 y	mature adult	male	flexed		
Bu. 18	16 ± 3 y	young adult	female?	flexed		
Bu. 19	> 30 y	mature adult	male	flexed	1	12 small columella beads
Bu. 21	7 ± 2 y	adolescent	youth	flexed		
Bu. 22	> 21 y	young adult	ind.	flexed		
Bu. 24	no bones taken	child	youth	um	2	1 small unmodified columella bead, 6 large unmodified columella beads; 1 ceramic um
Bu. 25	1.5 y ± 6 m	child	youth	um	2	9 small columella beads; 1 ceramic um
Bu. 30	> 21 y	young adult	female?	flexed	2	shell beads; copper fragments
Bu. 31	7.5 ± 2 y	adolescent	youth	flexed		
Fea. 17	na	na	youth	um		
Fea. 18	na	na	youth	um		
Structure 14 (Mg3)						
Bu. 43	29 ± 5 y	mature adult	female	flexed	3	23 medium columella beads; 1 Pine Island shell gorget; 1 shell disc
Bu. 45	18 ± 2 y	young adult	female?	flexed	1	pottery beads
Bu. 46	45 ± 5 y	older adult	male	flexed		
Bu. 47	15 ± 3 y	young adult	ind.	flexed		
Bu. 48	45 ± 5 y	older adult	male	flexed		
Bu. 49	40 ± 5 y	older adult	female	flexed		
Bu. 50	35 ± 6 y	older adult	male	extended	3	20 large polished columella beads; 1 copper axe; 1 rock
Structure 21b (Mg3)						
Bu. 77	11 ± 2.5 y	adolescent	youth	flexed	1	3 rocks
Bu. 78	11 ± 2.5 y	adolescent	youth	flexed		
Bu. 79	16 ± 3 y	young adult	ind.	flexed		
Structure 49 (Mg3)						
Bu. 66	> 21 y	young adult	male	flexed		
Bu. 67	> 30 y	mature adult	male?	flexed		
Bu. 68	> 30 y	mature adult	female?	extended	2	1 chipped stone projectile point; 1 rock
Bu. 68a	missing	child	youth	um	4	9 small columella beads; 1 Pine Island shell gorget; 1 ceramic um; 1 quartz piece

Context	Age	Age Class	Sex	Burial Type	NAT	Artifacts
Bu. 69	36 ± 6 y	older adult	female	flexed		
Bu. 70	> 40 y	older adult	female?	flexed	2	1 rock; 1 celt blank
Bu. 71	> 40 y	older adult	female?	flexed		
Bu. 72	41 ± 10 y	older adult	male	flexed		
Bu. 75	> 12 y	adolescent	youth	flexed	2	1 hammerstone; 1 rock
Enclosed Circular						
Structure 1 (Mg2)						
Bu. 1a	> 30 y	mature adult	ind.	flexed		
Bu. 1b	25 ± 5 y	mature adult	female	flexed		
Bu. 2a	2 m	child	youth	um	3	22 small columella beads; 1 ceramic um and cover
Bu. 5	> 18 y	young adult	female	flexed		
Bu. 12	12 ± 2.5 y	adolescent	youth	flexed		
Bu. 12a	9 ± 1 y	adolescent	youth	not recognized in field		
Bu. 12b	9 m to 1 y	child	youth	not recognized in field		
Bu. 13	> 21 y	young adult	female	flexed		
Bu. 14a	> 21 y	young adult	female	ind.		
Bu. 14b	16 ± 2 y	young adult	male	flexed		
Bu. 14c	3 ± 2 m	child	youth	not recognized in field		
Bu. 15	> 30 y	mature adult	female	flexed		
Bu. 16	> 40 y	older adult	male	flexed		
Bu. 17	> 21 y	young adult	male	flexed		
Bu. 18	na	na	na	flexed		
Bu. 19	na	na	na	flexed		
Bu. 20	na	adult	male	extended		
Bu. 21	45 ± 5 y	older adult	male	flexed		
Bu. 22	> 18 y	young adult	ind.	flexed		
Bu. 23	> 40 y	older adult	ind.	flexed	1	2 chipped stone projectile points
Bu. 24	> 30 y	mature adult	male	flexed		
Bu. 25	> 40 y	older adult	male	flexed		
Bu. 26	49 ± 11 y	older adult	male	flexed		
Bu. 27	35 ± 8 y	older adult	male	flexed	1	1 antler projectile point
Bu. 28	> 30 y	mature adult	female?	disarticulated		
Bu. 29	> 30 y	mature adult	male	flexed		
Bu. 29a	30 ± 10 y	mature adult	ind.	no drawing		
Bu. 30	> 21 y	young adult	female	bundle	1	copper fragments
Bu. 31	6 ± 2 y	adolescent	youth	flexed		
Bu. 32	> 18 y	young adult	ind.	extended		
Structure 7 (Mg3)						
Bu. 86	37 ± 6 y	older adult	female	ind.	1	1 awl
Bu. 87	37 ± 5 y	older adult	male	flexed	1	1 rock
Bu. 87a	adult	adult	ind.	no notes		
Bu. 88	2 y ± 8 m	child	youth	flexed	1	154 small columella beads

Context	Age	Age Class	Sex	Burial Type	NAT	Artifacts
Bu. 89	42 ± 7 y	older adult	male	flexed	1	2 rocks
Bu. 90	> 18 y	young adult	male	extended		
Bu. 91	6 ± 3 m	child	youth	flexed		
Bu. 92	50 ± 10 y	older adult	male	flexed	1	copper fragments
Bu. 93	< 6 m	child	youth	extended		
Bu. 94	2.5 y ± 10 m	child	youth	flexed	1	69 small columella beads, 4 medium columella beads
Bu. 95	26 ± 5 y	mature adult	female	flexed		
Bu. 96	47 ± 5 y	older adult	female	flexed		
Bu. 97	neonate	child	youth	urn	3	31 small columella beads; 1 ceramic urn and cover
Bu. 98	3 ± 2 m	child	youth	urn	2	1 ceramic urn; 1 rock
Bu. 99	45 ± 7 y	older adult	female	flexed		
Bu. 100	12 ± 2.5 y	adolescent	youth	flexed	1	44 small columella beads, 7 medium columella beads
Bu. 101	40 ± 5 y	older adult	female	flexed	2	27 small columella beads; 1 marginella bead
Bu. 102	6 ± 3 m	child	youth	not recognized in field		
Bu. 102a	4.5 ± 1 y	child	youth	urn	2	1 ceramic urn and cover
Bu. 103	no bones taken	child	youth	urn	1	1 ceramic urn
Bu. 104	1 y ± 4 m	child	youth	ind.		
Bu. 105	20 ± 3 y	young adult	male	flexed		
Bu. 106	27 ± 6 y	mature adult	male	flexed		
Bu. 107	20 ± 3 y	young adult	male	flexed		
Bu. 108	8 ± 2 y	adolescent	youth	flexed	1	2 ceramic vessels
Bu. 109	4 ± 1 y	child	youth	ind.	3	10 small columella beads; 63 marginella beads; pottery beads
Bu. 109a	2 ± 2 m	child	youth	ind.		
Bu. 110	40 ± 5 y	older adult	male	flexed		
Bu. 111	1.5 y ± 6 m	child	youth	flexed	2	829 small columella beads, 16 medium columella beads; 2 conch shoulder gorgets
Bu. 112	11 ± 2.5 y	adolescent	youth	flexed	2	1 small columella bead; 1 bone bead
Bu. 112a	3 ± 2 m	child	youth	not recognized in field		
Bu. 113	3 ± 2 m	child	youth	urn	3	3 small columella beads; 1 ceramic urn and cover
Bu. 114	37 ± 5 y	older adult	male	flexed		
Bu. 115	40 ± 5 y	older adult	male	flexed		
Bu. 116	22 ± 4 y	young adult	male?	ind.		
Bu. 117	30 ± 5 y	mature adult	female	extended		
Bu. 118a	2.5 y ± 10 m	child	youth	ind.	1	2 conch shoulder gorgets
Bu. 118b	2 y ± 8 m	child	youth	ind.		
Bu. 118c	6 ± 3 m	child	youth	ind.		
Bu. 118d	neonate	child	youth	ind.		
Bu. 119	35 ± 5 y	older adult	female	flexed	1	40 small columella beads
Bu. 120	2 y ± 8 m	child	youth	flexed	3	8 medium columella beads, 10 large columella beads; 2 marginella beads; 1 celt
Bu. 121	9 ± 3 m	child	youth	urn	3	132 small polished columella beads; 1 ceramic urn and cover
Bu. 122	2 y ± 8 m	child	youth	ind.	1	84 small columella beads
Bu. 123	40 ± 5 y	older adult	female	flexed	2	2 marginella beads; 1 rock
Bu. 124	6 ± 3 m	child	youth	urn	3	1 bone bead; 1 ceramic urn and cover

Context	Age	Age Class	Sex	Burial Type	NAT	Artifacts
Bu. 124a	3.5 ± 1 y	child	youth	ind.	5	2 small columella beads, 1 medium polished columella bead, 2 disc columella beads, 1655 marginella beads; 92 pottery beads
Bu. 125	35 ± 5 y	older adult	male	flexed	2	
Bu. 125a	1y ± 6 m	child	youth	not recognized in field		
Bu. 125b	ind.	ind.	ind.	not recognized in field		
Large Rectangular						
Structure 27 (Mg3)						
Bu. 61	23 ± 3 y	young adult	female	flexed		
Bu. 62a	8 ± 2 y	adolescent	youth	multiple; disarticulated	2	1 deer jaw; 1 pottery disc
Bu. 62b	9 ± 2 y	adolescent	youth	multiple; disarticulated		
Bu. 62c	> 21 y	young adult	ind.	multiple; disarticulated		
Bu. 62d	adult	adult	ind.	multiple; disarticulated		
Bu. 63	> 15 y	young adult	female?	no drawing		
Bu. 80	2 y ± 8 m	child	youth	flexed		
Bu. 81	8 ± 2 y	adolescent	youth	flexed		
Bu. 82	6 ± 2 y	adolescent	youth	flexed		
Structure 30b (Mg3)						
Bu. 11	35 ± 5 y	older adult	female?	flexed	1	1 quartzite pebble
Bu. 26	> 21 y	young adult	female	flexed		
Bu. 27	> 15 y	young adult	ind.	flexed		
Bu. 28	27 ± 3 y	mature adult	male	flexed		
Bu. 83	42 ± 5 y	older adult	female	flexed		
Small Rectangular						
Structure 5b (Mg2)						
Bu. 40	6 ± 2 y	adolescent	youth	ind.		
Fea. 35	ind.	ind.	ind.	ind.		
Medium Rectangular						
Structure 28 (Mg3)						
Bu. 76	10 ± 2.5 y	adolescent	youth	flexed		
Bu. 84	25 ± 4 y	mature adult	ind.	flexed	2	29 small columella beads; 1 bone awl
Bu. 85	< 2 y	child	youth	flexed		
Premound Public (Mg2)						
Structure 23a						
Bu. 10	6 ± 3 m	child	youth	no drawing		
Bu. 42	1 m	child	youth	flexed		
Bu. 43	3 ± 2 m	child	youth	flexed	1	1 small columella bead, 13 medium columella beads
Structure 23c						
Bu. 11	1 y ± 3 m	child	youth	flexed		
Structure 24						
Bu. 3	47 ± 5 y	older adult	female?	flexed		
Bu. 4	45 ± 5 y	older adult	male	flexed		
Bu. 6	40 ± 5 y	older adult	male	flexed	2	76 small columella beads; 6 bone scratchers

Context	Age	Age Class	Sex	Burial Type	NAT	Artifacts
Structure 4a						
Bu. 7	> 30 y	mature adult	female	bundle		
Bu. 36	32 ± 5 y	mature adult	female?	extended		
Bu. 41	27 ± 6 y	mature adult	female	flexed	1	marine shell fragment
Bu. 44	4 ± 1 y	child	youth	extended	2	92 small columella beads; 2 stone beads
Bu. 50	no bones taken	ind.	na	ind.	1	1 ceramic vessel
Structure 4b						
Bu. 45	> 21 y	young adult	female	flexed		
Bu. 46	2 y ± 8 m	child	youth	flexed	1	6 shell pendants
Mound Summit (Mg2)						
Structure 45a						
Bu. 59	> 21 y	young adult	male	flexed	6	13 small columella beads, 10 extra large unmodified beads; 2 chipped stone projectile points; 3 mica ornaments, 2 rattles, 1 lump of red ochre
Bu. 61	> 18 y	young adult	ind.	flexed	1	2 quartz pieces
Structure 45b						
Bu. 60	adult	adult	unknown	flexed	2	mica fragments; 1 rattle
Structure 46a						
Bu. 48	> 21 y	young adult	female	bundle	1	1 shell hair or ear pin
Structure 46b						
Bu. 49	> 21 y	young adult	ind.	bundle		
Enclosure 1 (Mg3)						
Structure 51						
Bu. 9	> 21 y	young adult	ind.	flexed	2	1 large columella bead; 1 large cobble
Bu. 20	adult	adult	male	flexed	6	1 small columella bead; 1 raccoon skull; 1 spittoon-style pottery pipe; 4 chipped stone projectile points; mica fragments; 1 rattle
Bu. 23	21 ± 5 y	young adult	ind.	flexed	2	16 medium unmodified columella beads; mica fragments
Bu. 29	> 18 y	young adult	ind.	ind.		
Bu. 32	few bones taken	ind.	unknown	ind.		
Burial Cluster 11						
Bu. 1	1 y ± 6 m	child	youth	no notes		
Bu. 1a	20 ± 3 y	young adult	female	flexed	2	shell fragments; 1 ceramic um
Bu. 1b	dog	na	na	um		
Bu. 2a	adult	adult	ind.	ind.		
Bu. 3	no bones taken	child	youth	ind.		
Bu. 4	< 18 y	young adult	ind.	ind.		
Bu. 5	18 ± 3 y	young adult	female	flexed	3	4 conch shoulder gorgets; 3 chipped stone projectile points; 1 rattle
Bu. 7	1.25 y ± 5 m	child	youth	flexed	1	shell beads
Bu. 8	40 ± 5 y	older adult	male	flexed		
Bu. 10	25 ± 5 y	mature adult	female	flexed		
Burial Cluster 13						
Bu. 33	> 21 y	young adult	female?	flexed	1	2 stone ear discs
Bu. 36	1.5 y ± 6 m	child	youth	ind.	4	2 ceramic discs; 1 stone disc (ear spool?); 2 copper-covered wooden ear spools; 1 rattle

Context	Age	Age Class	Sex	Burial Type	NAT	Artifacts
Bu. 37	28 ± 4 y	mature adult	female	extended	3	98 small columella beads; 4 bracket-style shell ear pins; 1 copper-covered wooden ear spool
Bu. 38	> 18 y	young adult	ind.	flexed		
Bu. 39	> 30 y	mature adult	female?	flexed		
Bu. 40	14 ± 2.5 y	adolescent	youth	flexed		
Bu. 41	few bones taken	ind.	unknown	flexed	1	deer ulna
Unassigned						
Burial Cluster 14 (Mg3)						
Bu. 42	19 ± 3 y	young adult	female	flexed	2	2 olivella shells; 1 ceramic vessel fragment
Bu. 44	36 ± 5 y	older adult	female	flexed-shaft and chamber	1	6 small columella beads
Bu. 51	3.5 ± 1 y	child	youth	flexed-shaft and chamber	2	1 disc columella bead; 24 glass beads
Bu. 52	1 y ± 3 m	child	youth	flexed-shaft and chamber	3	31 disc columella beads; 1 copper gorget; 24 glass beads
Bu. 53	42 ± 7 y	older adult	female	flexed-shaft and chamber		
Bu. 54	5 ± 2 y	child	youth	flexed		
Burial Cluster 20 (Mg3)						
Bu. 55	no bones taken	ind.	unknown	flexed-shaft and chamber	1	1 glass bead
Bu. 56	missing	ind.	ind.	flexed		
Bu. 57	> 18 y	young adult	male	flexed	6	1 pottery pipe; 1 stone bead; 1 stone scraper; 1 copper bead; 1 brass or copper pendant; 1 quartz piece
Bu. 58	missing	adolescent	youth	flexed	1	1 copper bead
Bu. 59	> 18 y	young adult	male?	flexed		
Bu. 60	> 18 y	young adult	ind.	flexed	1	mica fragments
Bu. 64	> 18 y	young adult	ind.	flexed		
Fea. 34	no bones taken	na	na	no drawing		
Burial Cluster 21 (Mg3)						
Bu. 65	> 21 y	young adult	ind.	bundle	1	7 small columella beads
Bu. 65a	1y ± 4 m	child	youth	not recognized in field		
Bu. 65b	6 ± 2 y	adolescent	youth	not recognized in field		
Bu. 73	12 ± 2.5 y	adolescent	youth	ind.		
Bu. 74	adult	adult	unknown	ind.		
Burial Cluster 40 (Mg3)						
Bu. 126	13 ± 3 y	adolescent	youth	flexed		
Bu. 127	4 ± 1 y	child	youth	ind.		
Bu. 133	> 18 y	young adult	ind.	flexed		
Bu. 146	45 ± 6 y	older adult	male	extended		
Bu. 146a	3 ± 1 y	child	ind.	no notes		
Bu. 147	47 ± 7 y	older adult	female	flexed	1	1 ceramic vessel
Bu. 148a	4 ± 1 y	child	youth	ind.		
Bu. 148b	> 30 y	mature adult	ind.	not recognized in field		
Bu. 149	> 21 y	young adult	male	flexed		
Bu. 150	ind.	ind.	ind.	ind.		
Bu. 151	6 ± 2 y	adolescent	youth	ind.	1	1 rock

* Age and sex data are from Davis et al. 1996 and Driscoll 2001.

Accession and Specimen No.	Provenience		Vessel Attributes					Use Alterations					
	Provenience	Associated Architecture or Strata	Analytic Provenience	Surface Treatment	Diameter (cm)	% of Rim	Vessel Type	Exterior		Interior			
							Thermal Alteration	Sooting	Heavy Pitting	Light Pitting	Heavy Scratching	Light Scratching	
Leak (Rh1)													
11p10	surface			burnished plain	38	50	rest. bowl	no	no	no	yes	no	no
11p2	surface			burnished plain	31	50	med. open bowl	no	no	no	yes	no	no
11p3	surface			curv. comp. st.	41	20	med. rest. jar	yes	no	yes	no	no	no
11p3	surface			curv. comp. st.	42	10	med. rest. jar	ind	no	no	yes	no	no
11p7	surface			curv. comp. st.	41	30	med. rest. jar	yes	no	no	no	no	yes
11p8	surface			check st.	47	40	med. rest. jar						
11p9	surface			curv. comp. st.	42		med. rest. jar						
2008p1	surface			plain	19	15	med. open bowl						
2008p1	surface			burnished plain	24	10	med. open bowl						
2008p1	surface			burnished plain	24	25	med. open bowl						
2008p1	surface			burnished plain	31	10	med. open bowl						
2008p1	surface			burnished plain	35	40	med. open bowl						
2008p1	surface			burnished plain	30	10	rest. bowl						
2008p1	surface			burnished plain	33	10	rest. bowl						
2008p1	surface			curv. comp. st.	40	15	med. rest. jar						
2101p121	surface			burnished plain	13	20	sm. car. bowl	yes	no	no	no	no	yes
2101p121	surface			burnished plain	35	70	med. open bowl						
2101p121	surface			simple stamped	34		med. open jar						
2101p121	surface			brushed	33	15	med. rest. jar						
2101p121	surface			curv. comp. st.	19	25	med. rest. jar	yes	yes	no	no	no	no
2101p121	surface			stamped	16	15	med. rest. jar	yes	no	no	no	no	no
none	surface			curv. comp. st.	36.5	100	med. open bowl	yes	no	no	yes	no	yes
none	surface			burnished plain	8	100	car. jar	yes	no	no	no	no	no
none	surface			curv. comp. st.	23	100	med. rest. jar	yes	no	no	yes	no	no
none	surface			burnished plain	21	50	med. rest. jar						
Town Creek (Mg2)													
1094p1	surface			curv. comp. st.	29	20	med. rest. jar	yes	yes	no	no	no	no
313p3378				curv. comp. st.	15	1	med. rest. jar	no	no	no	no	no	no
314p61	Sq. -20R70	Struct. 2	Sm. Circ.	burnished plain	19	15	rest. bowl						
314p85	Sq. 40-50R10	Mound summit		cob impressed	16	12	med. rest. jar						
34p104	Sq. 10R10	Level X	Level X	curv. comp. st.	32	10	med. rest. jar						
34p11	Prelim. Trench I	Mound	Level X	curv. comp. st.	34	na	med. rest. jar						
34p11	Prelim. Trench I	Mound	Level X	curv. comp. st.	36	na	med. rest. jar						
34p11	Prelim. Trench I	Mound	Level X	rect. comp. st.	20	10	uid jar						
34p117	Sq. 10R20	Level A		curv. comp. st.	15	15	med. rest. jar						
34p118	Fea. 21	Struct. 24	Premound public	curv. comp. st.	46	10	med. rest. jar	yes	no	no	yes	no	yes

Accession and Specimen No.	Provenience			Vessel Attributes				Use Alterations						
	Provenience	Associated Architecture or Strata	Analytic Provenience	Surface Treatment	Diameter (cm)	% of Rim	Vessel Type	Exterior		Interior				
								Thermal Alteration	Sooting	Heavy Pitting	Light Pitting	Heavy Scratching	Light Scratching	
34p16	Prelim. Trench III	Mound		burnished plain	22	10	rest. bowl							
34p21	Sq. 0R10	Struct. 1	Enc. Circ.	curv. comp. st.	31	na	med. rest. jar							
34p23	Sq. BL0	Struct. 1	Enc. Circ.	burnished plain	16	15	med. open bowl							
34p23	Sq. BL0	Struct. 1	Enc. Circ.	curv. comp. st.	23	100	med. rest. jar	yes	yes	no	no	no	no	yes
34p24	BL0	Struct. 1	Enc. Circ.	plain	20	100	med. rest. jar	no	no	no	yes	no	no	yes
34p316	Sq. 40R40	Struct. 4 or 23	Premound public	curv. comp. st.	22	17	med. rest. jar							
34p377	Sq. 60R50	Level A		curv. comp. st.	31	10	med. rest. jar							
34p379	Sq. 60R50	Level A		burnished plain	35	na	rest. bowl							
34p424	Sq. 80R10-30	Level A		curv. comp. st.	22	15	med. rest. jar							
34p448	Sq. 50R50	Struct. 4a or 23c	Premound public	burnished plain	26		med. car. bowl	yes	no	no	yes	no	no	yes
34p451	Sq. 50R50	Struct. 4a or 4b	Premound public	plain	25	10	med. open bowl							
34p452	Sq. 50R50	Struct. 4a or 4b	Premound public	unidentified	21	10	med. rest. jar							
34p457	Sq. 50R30	Level A		plain	8	25	sm. open bowl							
34p465	Fea. 17	Struct. 24	Premound public	stamped	11		sm. rest. jar	yes	no	no	no	no	no	no
34p469	Sq. 50R30	Moundfill		curv. comp. st.	21	20	med. rest. jar							
34p472	Sq. 50R40	Moundfill		curv. comp. st.	28		med. open jar							
34p56	Sq. 0R20	Level A		rect. comp. st.	32	15	med. rest. jar							
34p68	Sq. 0R30	Struct. 1 or 24	Premound public	rect. comp. st.	18	15	med. open jar							
34p83	Sq. BL10	Level X	Level X	burnished plain	20	15	rest. bowl							
34p83	0 Trench			burnished plain	21	12	rest. bowl							
34p83	0 Trench			burnished plain	23	12	uid jar							
34p88	Sq. 10R20	Struct. 24	Premound public	textile impressed	11	20	sm. rest. jar	no	no	no	yes	no	no	no
34p93	Sq. BL10	Level X	Level X	curv. comp. st.	20	15	med. open bowl							
34p93	Sq. BL10	Level X	Level X	burnished plain	25	10	rest. bowl							
34p93	Sq. BL10	Level X	Level X	burnished plain	31	15	rest. bowl							
34p93	Sq. BL10	Level X	Level X	stamped	34	na	med. open jar							
61p143	Bu. XVII	Struct. 1	Enc. Circ.	curv. comp. st.	14	15	med. rest. jar							
61p85	Sq. 50R30	Struct. 4b	Premound public	curv. comp. st.	16	20	med. rest. jar							
70p1	Backfill			plain	18	15	med. open bowl							
70p1152	Bu. 35	Struct. 2	Sm. Circ.	textile impressed	32.5	100	med. open bowl	yes	yes	no	yes	no	no	yes
70p1152	Bu. 35	Struct. 2	Sm. Circ.	curv. comp. st.	39	100	med. rest. jar	yes	no	no	yes	no	no	no
70p1166	Fea. 27	Struct. 4a or 4b	Premound public	curv. comp. st.	10.5	100	sm. rest. jar	yes	no	no	no	no	no	yes
70p12	Sq. 0R50	Level A		rect. comp. st.	36	10	med. rest. jar							
70p160	Sq. 50R40	Struct. 4b	Premound public	burnished plain	11	100	sm. rest. jar	no	no	no	no	no	no	no
70p174	Sq. 50R40	Level A		curv. comp. st.	18	15	med. rest. jar							
70p185	Sq. 50R40	Level A		curv. comp. st.	37	15	med. rest. jar							
70p320	Sq. 60R30	Level A		curv. comp. st.	44	10	med. rest. jar							
70p344	Backfill			comp. st.	22	10	uid jar							

Accession and Specimen No.	Provenience			Vessel Attributes				Use Alterations						
	Provenience	Associated Architecture or Strata	Analytic Provenience	Surface Treatment	Diameter (cm)	% of Rim	Vessel Type	Exterior		Interior				
								Thermal Alteration	Sooting	Heavy Pitting	Light Pitting	Heavy Scratching	Light Scratching	
70p470	Sq. 70R70			textile impressed	22	10	med. open bowl							
70p640	Sq. 10	Level X	Level X	curv. comp. st.	32	10	med. open bowl							
Town Creek (Mg3)														
1040p1067	Bu. 89	Struct. 7	Enc. Circ.	burnished plain	26	10	rest. bowl							
1040p1305	Bu. 95 & 96	Struct. 7	Enc. Circ.	rect. comp. st.	28	15	med. rest. jar							
1040p1310	Bu. 97	Struct. 7	Enc. Circ.	plain	37	na	med. open bowl							
1040p1314	Bu. 98b	Struct. 7	Enc. Circ.	curv. comp. st.	31	15	med. open bowl	yes	yes	no	no	no	no	no
1040p1322	Bu. 102	Struct. 7	Enc. Circ.	curv. comp. st.	33	25	med. rest. jar	yes	yes	no	yes	no	no	yes
1040p1322	Bu. 102	Struct. 7	Enc. Circ.	plain	31	100	med. open bowl	no	no	no	no	no	no	no
1040p1323	Bus. 102-107	Struct. 7	Enc. Circ.	rect. comp. st.	45	35	med. rest. jar	yes	yes	yes	no	no	no	no
1040p1351	Bu. 113	Struct. 7	Enc. Circ.	cob impressed	8	100	sm. open jar	no	no	no	no	no	no	no
1040p1351	Bu. 113	Struct. 7	Enc. Circ.	curv. comp. st.	36	70	med. rest. jar	yes	no	yes	no	yes	no	no
1040p1351	Bu. 113	Struct. 7	Enc. Circ.	curv. comp. st.	36	100	med. open bowl	yes	yes	no	yes	no	no	no
1040p1369	Bu. 120	Struct. 7	Enc. Circ.	check st.	24	10	med. rest. jar							
1040p1370	Bu. 121	Struct. 7	Enc. Circ.	curv. comp. st.	31	15	med. rest. jar	yes	no	no	yes	no	no	yes
1040p1429	Sq. 80L120	Struct. 8	Sm. Circ.	wide curv. comp. st.	21	15	med. rest. jar							
1040p1560	Sq. 60L100	Struct. 9b		curv. comp. st.	30	10	med. rest. jar							
1040p2836	Sq. -140L70	Struct. 16	Med. Rect.	curv. comp. st.	26	20	med. rest. jar							
1040p3266	Bu. 108	Struct. 7	Enc. Circ.	rect. comp. st.	11.5	100	sm. open bowl	yes	no	no	yes	no	no	yes
1040p973	Sq. 70L160	Struct. 7	Enc. Circ.	rect. comp. st.	17	20	med. rest. jar							
2022p465	Sq. -190L10			curv. comp. st.	23	10	med. rest. jar							
2022p766	Bu. 124	Struct. 7	Enc. Circ.	curv. comp. st.	30	100	med. rest. jar	yes	no	no	yes	no	no	yes
2022p769	Burial House	Struct. 7	Enc. Circ.	curv. comp. st.	11.5	25	sm. rest. jar	no	no	no	no	no	no	no
2121p843	Bu. 146	Burial Cluster 40		curv. comp. st.	22	10	med. rest. jar							
2121p853	Bu. 147			net impressed	14	25	med. rest. jar	yes	no	no	no	no	no	no
313p1427	Sq. -100L70			burnished plain	26	30	rest. bowl	no	no	no	yes	no	no	yes
313p1427	Sq. -100L70			textile impressed	26	20	med. rest. jar							
313p2245	Sq. -10L90			burnished plain	36	40	large car. bowl	no	no	no	yes	no	no	no
313p2373	Sq. -30L100			stamped	41	15	med. rest. jar	yes	no	no	yes	no	no	yes
313p265	Sq. -160R10			curv. comp. st.	28	15	med. rest. jar							
313p27	Sq. -100R95	Riverbank		textile impressed	20	12	med. rest. jar							
313p3083	Sq. 160-170L40	Struct. 15b	Enc. Circ.	plain	42	na	large open bowl							
313p4113	Sq. 90L190	Struct. 7	Enc. Circ.	plain	11	15	sm. open bowl							
313p4118	Sq. 90L190	Struct. 7	Enc. Circ.	burnished plain	33	10	med. open bowl							
313p4582	Sq. -10L60			burnished plain	16	5	med. open bowl	no	no	no	no	no	no	no
313p4582	Sq. -10L60			burnished plain	18	15	med. open bowl							
313p4821	Sq. -20L80			burnished plain	29	10	rest. bowl							
313p5152	Sq. -30L70			plain	20	10	med. open bowl							

Accession and Specimen No.	Provenience		Vessel Attributes				Use Alterations							
	Provenience	Associated Architecture or Strata	Analytic Provenience	Surface Treatment	Diameter % of		Vessel Type	Exterior		Interior				
					(cm)	Rim		Thermal Alteration	Sooting	Heavy Pitting	Light Pitting	Heavy Scratching	Light Scratching	
313p5864	surface			rect. comp. st.	27	15	med. rest. jar							
313p747	Sq. -160L90			burnished plain	30	15	rest. bowl							
313p799	Sq. -120L90			curv. comp. st.	30		med. rest. jar							
60p26	Fea. 3	Burial Cluster 11		curv. comp. st.	34	5	med. rest. jar	no	no	no	no	no	no	no
60p30	Bu. 3	Burial Cluster 11		curv. comp. st.	36	40	med. rest. jar	yes	no	no	yes	no	no	yes
60p31	Bu. 3	Burial Cluster 11		burnished plain	34	25	rest. bowl	no	no	no	no	no	no	no
60p31	Bu. 3	Burial Cluster 11		burnished plain	38	15	rest. bowl							
60p31	Bu. 3	Burial Cluster 11		burnished plain	42	15	large open bowl							
700p114	Sq. 60L20	Struct. 10	Enc. Circ.	burnished plain	29	15	med. open bowl							
700p1971	Sq. 90L70	Struct. 31	Sm. Circ.	curv. comp. st.	21	15	med. rest. jar							
700p1971	Sq. 90L70	Struct. 31	Sm. Circ.	curv. comp. st.	21	10	med. rest. jar							
700p2246	Sq. -95R100	Riverbank		textile impressed	31	10	med. open bowl							
700p2280	Sq. -95R110	Riverbank		plain	25	20	med. rest. jar							
700p2302	Sq. -95R95	Riverbank		curv. comp. st.	33	15	med. open bowl							
700p2303	Sq. -95R95	Riverbank		plain	6	100	sm. open jar	no	no	no	no	no	no	yes
700p2343	Sq. -90R105	Riverbank		rect. comp. st.	17	25	med. rest. jar							
700p2347	Sq. -90R105	Riverbank		curv. comp. st.	35	na	med. rest. jar							
700p2351	Sq. -90R105	Riverbank		curv. comp. st.	25	10	med. rest. jar							
700p2351	Sq. -90R105	Riverbank		curv. comp. st.	29	20	med. rest. jar							
700p2461	Sq. -85R100	Riverbank		curv. comp. st.	26	10	med. rest. jar							
700p2482	Sq. -85R100	Riverbank		burnished plain	34	na	rest. bowl							
700p2482	Sq. -85R100	Riverbank		burnished plain	35	15	rest. bowl	no	no	no	yes	no	no	no
700p2482	Sq. -85R100	Riverbank		curv. comp. st.	17	20	med. rest. jar							
700p2482	Sq. -85R100	Riverbank		wide rect. comp. st.	27	15	med. open bowl							
700p2501	Sq. -85R100	Riverbank		curv. comp. st.	51	na	large rest. jar							
700p2501	Sq. -85R100	Riverbank		curv. comp. st.	22	25	med. rest. jar							
700p2501	Sq. -85R100	Riverbank		curv. comp. st.	44	na	med. rest. jar							
700p2501	Sq. -85R100	Riverbank		burnished plain	20	15	med. rest. jar							
700p2501	Sq. -85R100	Riverbank		burnished plain	24	15	med. rest. jar							
700p2501	Sq. -85R100	Riverbank		textile impressed	16	15	med. rest. jar							
700p2501	Sq. -85R100	Riverbank		textile impressed	18	30	med. rest. jar	no	no	no	no	no	no	no
700p2501	Sq. -85R100	Riverbank		unidentified	42	na	med. rest. jar							
700p2501	Sq. -85R100	Riverbank		wide rect. comp. st.	20	15	med. rest. jar							
700p2501	Sq. -85R100	Riverbank		wide rect. comp. st.	24	10	med. rest. jar							
700p2501	Sq. -85R100	Riverbank		burnished plain	19	20	sm. car. bowl	yes	no	no	yes	no	no	no
700p2511	Sq. -85R100	Riverbank		curv. comp. st.	41	25	med. rest. jar	yes	no	yes	no	no	no	no
700p2523	Sq. -85R100	Riverbank		plain	21	10	med. rest. jar							
700p2523	Sq. -85R100	Riverbank		plain	26	10	med. rest. jar							

Accession and Specimen No.	Provenience			Vessel Attributes				Use Alterations					
	Provenience	Associated Architecture or Strata	Analytic Provenience	Surface Treatment	Diameter (cm)	% of Rim	Vessel Type	Exterior		Interior			
								Thermal Alteration	Sooting	Heavy Pitting	Light Pitting	Heavy Scratching	Light Scratching
700p2523	Sq. -85R100	Riverbank		unidentified	20	15	med. rest. jar						
700p2526	Sq. -85R100	Riverbank		plain	35	na	med. open bowl						
700p2561	Sq. 50L10	Struct. 30b	Large Rect.	rect. comp. st.	27	15	med. rest. jar						
700p3567	Sq. 40L150	Struct. 28	Med. Rect.	rect. comp. st.	29	20	med. rest. jar						
700p3769	Sq. 30L160	Struct. 28	Med. Rect.	burnished plain	22	10	med. open bowl						
700p3822	Sq. 40L160	Struct. 28	Med. Rect.	curv. comp. st.	47	100	large open jar	no	yes	yes	no	yes	no
700p421	Sq. -100R105	Riverbank		rect. comp. st.	20	10	med. rest. jar						
700p444	Sq. -100R110	Riverbank		plain	29	15	med. open bowl						
700p533	Sq. 20L80			burnished plain	22	20	med. open bowl						
700p538	Sq. 20L80	Struct. 9a	Med. Rect.	rect. comp. st.	32	50	med. rest. jar	no	no	no	yes	no	yes
700p685	Sq. 30L80	Struct. 9a	Med. Rect.	curv. comp. st.	22	10	med. rest. jar						
71p225	Riverbank Test Pit 1	Riverbank		curv. comp. st.	40	15	med. rest. jar	yes	no	no	yes	no	no
71p293	Fea. 13			unidentified	30	15	uid jar						
71p333	Sq. 40L10	Struct. 30b	Large Rect.	curv. comp. st.	26	10	med. rest. jar						
71p37	Sq. -20R10	Struct. 51		curv. comp. st.	24	10	med. rest. jar						
71p52	Bu. 1a	Burial Cluster 11		curv. comp. st.	50	50	large open jar						
71p52	Sq. -10R10	Burial Cluster 11		wide rect. comp. st.	23	15	med. open jar	yes	no	no	yes	no	no
71p52	Sq. -10R10	Burial Cluster 11		burnished plain	18	20	med. open bowl						
71p55	Sq. 0R10	Burial Cluster 11		curv. comp. st.	34	14	med. rest. jar						
71p582	Riverbank Test Pit 1	Riverbank		textile impressed	38		med. rest. jar						
71p815	Bu. 42	Burial Cluster 14		plain	29	20	med. open bowl	no	no	no	no	no	no
none	Bu. 103	Struct. 7	Enc. Circ.	curv. comp. st.	12	20	sm. open bowl	no	no	no	yes	no	no
Teal (An1)													
322p1	surface			curv. comp. st.	17	15	med. rest. jar						
322p1	surface			curv. comp. st.	46		med. rest. jar	no	no	yes	no	yes	no
322p1	surface			rect. comp. st.	29	10	med. rest. jar						
322p1	surface			fine cordmarked	31	10	med. rest. jar						
322p12	surface			burnished plain	29	25	med. open bowl						
930p9	surface			curv. comp. st.	52	100	large open jar	yes	no	yes	no	yes	no
951p73	surface			curv. comp. st.	28	10	med. rest. jar						
Unknown (Leak, Teal, or Town Creek)													
none	unknown			burnished plain	44	100	large open bowl	no	no	no	yes	no	no
none	unknown			curv. comp. st.	42	100	large open jar	yes	yes	yes	no	yes	no
none	unknown			curv. comp. st.	46	100	med. rest. jar	no	no	no	no	yes	no
none	unknown			rect. comp. st.	43.5	100	med. rest. jar	yes	no	yes	no	yes	no
none	unknown			rect. comp. st.	45.5	100	med. rest. jar	yes	no	yes	no	no	no

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