

**ARCHAEOLOGICAL MONITORING
OF
THE NORTH WASHINGTON STREET FENCE WALL
RECONSTRUCTION, CHRIST CHURCH
ALEXANDRIA, VIRGINIA**

by
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and

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Submitted to
Christ Church
118 North Washington Street
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PUBLIC REPORT SUMMARY

During the last week of December 1998, a team of archaeologists from Greenhorne and O'Mara, Inc. conducted monitoring of ground-disturbing activities associated with the reconstruction of the North Washington Street churchyard fence walls at Christ Church, in Alexandria, Virginia. Archaeologists were to observe the removal of existing masonry elements and other materials down to subsoil, where the surface was to be cleaned and evidence of graveshafts were to be identified, mapped, and photographed. The goal of the project was the identification and recording of any graveshafts which might be affected by the construction.

A total of 12 graves and one brick footing were identified during the investigation. Most of the graves were identified at approximately three feet below surface and consisted of shallow stains which were slightly darker than the surrounding matrix. No human remains were identified. Nails were identified with Graves 2 and 3. All of the identified graves were oriented east-to-west and those with identifiable ends exhibited heads on the western end.

No evidence of the mass grave of Confederate soldiers was noted in the north trench despite the presence of a grave monument immediately to the west of the trench. The brick footing feature was identified near the north end of the north trench. It is likely associated with an earlier church yard wall or structure removed to make way for the church yard wall in the 1820s.

It was determined that burials within the Christ Church churchyard took place in considerable numbers in the southeastern quadrant of the yard. These excavations also revealed that burials have historically been placed beyond the current churchyard, including the area of the current sidewalk and likely the adjacent roadway.

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ABSTRACT

Greenhorne and O'Mara, Inc. monitored ground-disturbing activities associated with the reconstruction of the North Washington Street churchyard fence walls at Christ Church, Alexandria, Virginia (Figure 1). The project area consisted of two trenches along the North Washington Street side of the church property. Archaeologists observed the removal of existing masonry elements and other materials (i.e. topsoils and fill) down to subsoil where the surface was cleaned and evidence of graveshafts was identified, mapped, and photographed. The goal of the project was the identification and recording of any graveshafts that might be affected by the construction, so that they might be avoided and preserved *in situ*. However, errors in the identification of graves in both plan and profile resulted in the destruction of human remains and the loss of archaeological data. This report documents the burials subsequently observed.

A total of 12 graves and one architectural feature were identified during the investigation. Most of the graves were identified at approximately three feet below surface. Grave 1, 2, and 3 were identified at slightly deeper (4 to 5 feet below surface) and Graves 10, 11, and 12 were identified at only 1.5 feet below the existing sidewalk. Most of the graves identified consisted of shallow stains which were slightly darker than the surrounding matrix. Nails were identified with Graves 2 and 3.

All of the identified graves were oriented east-to-west and those with identifiable ends exhibited heads on the western end. Graveshafts were ephemeral or nonexistent. Wooden planking, previously identified by Creveling (1987), was identified in Graves 1, 2, and 7. No human remains were identified.

It was determined that burials within the Christ Church churchyard took place in considerable numbers in the southeastern quadrant of the yard. Burials appear to have historically been placed beyond the current churchyard, including the area of the current sidewalk and likely the adjacent roadway.

A single architectural feature was identified in the north trench. It appears to be a remnant of a brick footing, likely associated with an earlier churchyard wall or structure which was removed or destroyed during the construction of the current churchyard wall in the 1820s. No evidence of the mass grave of Confederate soldiers was identified in the north trench despite the presence of a grave monument immediately to the west of the trench.

No further archaeological investigation of the project area addressed by this investigation is recommended. However, it is evident that burials and other archaeological features can be expected throughout the churchyard and adjacent walkways and roadways. Extreme caution should be taken in any ground disturbing activities in these areas. Further, given the difficulty in identifying graves in the conditions that prevail in the area of Christ Church, monitoring of ground disturbing activities is an inadequate means of identifying and protecting burials and other archaeological resources. Accordingly, ground-disturbing activities of any kind should be preceded by manual archaeological investigations.

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INTRODUCTION

PURPOSE AND GOALS OF THE PROJECT

During the last week of December, 1998, a team of archaeologists from Greenhorne and O'Mara, Inc. (G&O) conducted monitoring of ground-disturbing activities associated with the reconstruction of the North Washington Street churchyard fence walls (wall) surrounding Christ Church, Alexandria, Virginia (Figure 1). The wall was to consist of a brick wall with evenly spaced support columns with iron fence panels. Archaeologists were to observe the removal of existing masonry elements and other materials down to subsoil, where the surface was to be cleaned and evidence of graveshafts were to be identified, mapped, and photographed. The goal of the project was the identification and recording of any graveshafts that might be affected by the construction, so that they might be avoided and preserved *in situ*. However, errors in the identification of graves in both plan and profile resulted in the destruction of human remains and the loss of archaeological data. This report documents the burials subsequently observed.

Description of the Project Area

The project area consisted of two trenches along the North Washington Street side of the Christ Church property (the eastern side of the Christ Church property). The southern trench extended approximately 67 feet north from the Memorial Parish House to the center entrance to the churchyard. The northern trench extended approximately 55 feet from the north side of the center entrance sidewalk, north to the sidewalk at the southwest corner of Cameron and North Washington streets. The trench was approximately 2 feet in width with expansions to four feet at six-foot intervals for brick pillars (Figures 2, 3, and 4).

Organization of the Report

The report is organized in four sections. Following this introduction a brief background is presented. This is followed by a section presenting the methods and results of the investigation including field

methods employed during the archaeological monitoring as well as the laboratory methods employed in the processing of the artifacts recovered. The results of these activities are also presented. A section presenting a summary of the investigation and conclusions follows. References cited conclude the report and are followed by figures and appendices presenting burial elevations, the artifact inventory, and the qualifications of the investigators.

BACKGROUND

Christ Church is home of the Episcopal denomination in Alexandria, Virginia. The church acquired the land in 1766, and burials appear to have taken place on the property prior to the onset of church construction in 1767. The building was completed in 1773 (Milner 1979). According to Milner's 1979 report, the yard area of the church may not have been enclosed before 1787 and in 1806 a "new" fence was installed along the south line of the yard. In 1829 a wall, railing, and gate were constructed on Washington Street although the gate may not have been completed until 1844. Gas lamps were added in 1867. The other sides of the yard exhibited a plank or board fence until 1877.

Burials continued until 1804. At this time an Alexandria city ordinance restricted burials within the city limits. Burials of individual church members who paid twenty dollars for the privilege continued in the churchyard until 1809, at which time a new cemetery was established on Wilkes Street, west of Payne Street, outside the city limits in Fairfax County. According the Creveling (1987), three exceptions to burial in the original churchyard have been made; one for Charles Bennett in 1839, one for the remains of 34 Confederate soldiers in 1879, and one for a cremated church member in 1986.

Thus, the cemetery was in active use for approximately 53 years. During this time no map or listing of burials was produced. In 1985, DeRossi produced an inventory and map of headstones in an attempt to estimate the total number of burials within the churchyard. Her work was based on a comparison of vestry records, existing gravestones, and recorded burials. It was determined that there were potentially hundreds of burials unaccounted for in either church records or on existing markers. The presence of unmarked burials was confirmed by subsequent archaeological investigations (Creveling 1987).

Archaeological investigations undertaken between 1985 and 1986 resulted in the determination that there had been filling and landscape alteration in the area of the patio between the parish houses, as well as in an area where well drilling was proposed. Further, it was determined that these areas had been part of the cemetery (Creveling 1987). Excavations related to an addition to the parish house revealed several

additional burials. Determined that preservation of the human remains as well as the associated coffins, textiles, and metals was extremely poor due to the combination of a large amount of ground water in the clay subsoil and the high acidity of the soil. All excavated burials were interred in hexagonal "pinch toe" or "shouldered" coffins typical of the period. No coffin hardware was recovered. Iron nails and the stains left by iron nails were identified indicating nailed coffin lids. Grave shafts conformed to the hexagonal shape of the coffin and wooden planks were placed across the top of one coffin, possibly to keep it from collapsing under the weight of the backfill. No grave goods were recovered, and it is conjectured that the individuals were wrapped in shrouds rather than buried in clothing, since buttons or jewelry might have been preserved (Creveling 1987).

METHODS AND RESULTS

Methods

Because the project consisted of monitoring of construction related activities the methods employed consisted of archaeological observation of the removal of existing masonry elements and other materials down to subsoil. At the subsoil level the archaeologists were to clean the surface and search for evidence of graveshafts. Any graveshafts identified were to be mapped, and photographed. Elevations of the top and bottom of each burial, as appropriate, were recorded. These elevations are presented in Appendix A.

Failure to identify graveshafts in plan, and difficulty in identifying graves in profile, as well, resulted in the destruction of portions of nine graves. In fact, it was only after Alexandria Archaeology staff pointed out the burials in the walls of the trenches, that the G&O field archaeologists were able to recognize them. In one case, the burial feature was a disturbed brick vault with deteriorated wood inside (Cressey and Shephard 2000).

Only a small number of artifacts (16) required processing and analysis (See Appendix B). Coffin nails noted in Graves 2 and 3 were not collected. Artifacts recovered were cleaned, inventoried, and will be prepared for curation at a suitable repository in accordance with the *City of Alexandria Archaeological Standards*.

Results

During the course of the investigation a total of 320 square feet in two trenches were excavated down into subsoil. Four layers of soil were encountered. Layer A was a humic topsoil consisting of a very dark gray (10 YR 3/1) silt loam. In a small area of disturbance in the southern trench a layer of very dark grayish brown (10 YR 3/2) silty clay, designated Layer B, was identified. Layer C consisted of a yellowish brown (10 YR 5/6) clay. Layer D was identified as subsoil and consisted of a mottled

yellowish brown (10 YR 5/8) and light gray (10 YR 7/2) hardpacked clay. Depths of these layers varied across the trench but Layer D was generally identified at approximately three feet below surface. A total of 12 graves was identified (Figures 5 - 8) . A single architectural feature was identified in the northern trench (Figure 6). No evidence of the mass grave of Confederate soldiers was noted in the northern trench despite the presence of a grave monument immediately to the west of the trench.

Grave 1 was initially identified four feet below the present ground surface as a gray stain in subsoil revealed in the east and west walls of the trench along with a small stain along the floor of the trench (Figures 5, 7, 8, and 9). The stain was identified as the remains of a coffin oriented east-to-west with the head at the western end. No length measurement was possible as the feature extended into both trench walls. The width of the coffin was 1.7 feet and the depth of the stain was 0.7 feet. The profile indicates that the coffin lid had collapsed and a dark lens immediately above the coffin was identified as a layer of planks installed above the coffin such as those previously identified by Creveling (1987). The planks have been interpreted as an effort to slow the collapse of the coffin under the weight of the backfill. No human remains were encountered. No evidence of a grave shaft was present. It is postulated that the shaft was destroyed either by construction of the parish house to the south or previous construction along the Rectory's north wall.

Grave 2 was identified at a depth of five feet below the present ground surface as a gray stain in the floor of the trench which extended into both the east and west walls (Figures 5, 7, and 8). As with Grave 1 it was oriented east-to-west with the head at the western end. It appears that the coffin lid had collapsed after interment. A dark lens above the coffin is interpreted as a layer of planks above the coffin. Two nails were noted as being within the feature. The nails are highly corroded, but appear to be hand-wrought. A total length is unknown. The coffin measured 1.7 foot in width and 0.7 feet in depth. This burial was interred at a lower level than the other burials identified in this trench and the grave shaft was

partially destroyed by the installation of piping at three feet below surface in the area. No human remains were encountered.

Grave 3 was identified five feet below the present ground surface as a gray stain in the floor and west wall of the trench (Figures 5 and 8). The burial was oriented east-to-west with the head at the western end. The coffin appears to be hexagonal in shape. One heavily corroded, hand-wrought nail was noted within the feature. This burial lack the dark soil lens noted in both Graves 1 and 2. The grave shaft was evident only as a textural and moisture content change. There was little difference in the soil color between the shaft and the natural subsoil. The length of the feature is unknown but 3.1 feet were exposed. The coffin was 1.2 feet in width and 0.6 feet in depth. No human remains were encountered.

Grave 4 was identified three feet below the present ground surface as a linear gray stain in the west wall of the trench and appears to be the base of a coffin with the burial oriented east-to-west (Figures 5, 8, and 10). The length of the feature is unknown. The width of the coffin measured 0.8 feet and was 0.1 feet in depth. As with Grave 3 the grave shaft was extremely ephemeral. No human remains were encountered.

Grave 5 was identified in the west wall of the trench three feet below the present ground surface as a gray trapezoidal stain within the natural subsoil (Figures 5 and 8). The burial was oriented east-to-west. The length of the feature is unknown. The width of the coffin measures 1.6 feet with a depth of 0.5 feet. As with other burials the grave shaft was quite ephemeral.

Grave 6 was identified in the west wall of the trench 3.4 feet below the present ground surface as a gray, trapezoidal stain within the natural subsoil (Figures 5 and 8). The burial was oriented east-to-west. The length is unknown as the shaft extended into the west wall of the trench. The coffin measured 2.0 feet in width and was 0.6 feet in depth. No human remains were encountered.

Grave 7 was identified 3.5 feet below the present ground surface as a basin-shaped gray stain evident in the east and west walls of the trench (Figures 5, 8 and 11). A lens of dark soil above the coffin is interpreted as a layer of planks. The burial was oriented east-to-west. The length is unknown as the shaft extended into both walls of the trench. The coffin measured 1.7 feet wide and was 0.5 feet in depth. The grave shaft was extremely ephemeral, noticeable only by a textural change. No human remains were encountered.

Grave 8 was identified in the west wall of the trench three feet below the present ground surface as a linear gray stain at the interface of the B-horizon and the natural subsoil (Figures 5 and 8). The feature, identified as a possible grave, was oriented east-to-west. Its full length is unknown. It measured 1.8 feet in length 0.1 foot in depth. The grave shaft was ephemeral and no human remains were identified.

Grave 9 was identified 2.5 feet below the present ground surface as a linear gray stain in the west wall of the trench (Figures 5 and 8). A portion of this burial was destroyed during the construction of the original cemetery fence during the late 19th century. The burial is oriented east-to-west. Its length is unknown. It is 1.4 feet wide and 0.2 feet deep. No grave shaft or human remains were identified.

Grave 10 was identified in the east wall of the north trench 1.9 feet below the surface of the sidewalk.

Grave 10 was the possible headboard of a well-preserved coffin in subsoil (Figures 8 and 12). The coffin is oriented east-to-west and extends under the sidewalk. The coffin has experience minor disturbance from construction of the sidewalk but its integrity was not compromised. Its length is unknown. No grave shaft was evident. The coffin was mapped and photographed in place but not disturbed further. No human remains were identified.

Grave 11 was identified in the east wall of the north trench 1.5 feet below the surface of the sidewalk as a graveshaft and the possible wood headboard of a coffin resting on top of subsoil (Figures 8 and 13). The

coffin was oriented east-to-west. The length of the coffin is unknown. The exposed portion of the coffin measured 0.7 feet in width. Depth is unknown as the coffin was not further disturbed. No human remains were identified.

Grave 12 was identified as a brick-lined vault 1.5 feet below the surface of the sidewalk and visible only in profile in the east wall of the north trench (Figures 8 and 13). Wood was observed jutting vertically up from the chamber and protruding through the opening with more wood evident lying parallel with the long walls of the vault. The east end of the vault was destroyed during the construction of the nearby sewer line and appears to have been capped with poured cement. The vault is oriented east-to-west and would be located almost entirely under the existing street. No human remains were identified.

The remnants of a what appeared to be brick footing, likely associated with an earlier churchyard wall or structure, removed or destroyed during the construction of the 1820s churchyard wall, was designated Feature A. This feature was intact in the west wall of the trench, but was represented by brick rubble in the east wall. The intact portion consisted of seven courses of brick at a depth of 1.8 feet below the current ground surface. Exposed dimensions were approximately 2.0 feet in width and 1.5 feet in depth. The bottom course of brick rests on subsoil.

SUMMARY AND CONCLUSIONS

SUMMARY

Greenhorne & O'Mara, Inc., conducted monitoring of ground-disturbing activities associated with the reconstruction of the North Washington Street churchyard walls surrounding Christ Church in Alexandria, Virginia (Figure 1). The project area consisted of two trenches along the Washington Street side of the Christ Church property. Archaeologists observed the removal of existing masonry elements and other materials down to subsoil where the surface was cleaned and evidence of graveshafts was identified, mapped, and photographed. The goal of the project was the identification and recording of any graveshafts that might be affected by the construction, so that they might be avoided and preserved *in situ*. However, errors in the identification of graves in both plan and profile resulted in the destruction of human remains and the loss of archaeological data.

A total of 12 graves and one architectural feature were identified during the investigation. All of the graves were identified in the south trench, most at approximately three feet below surface. Grave 1, 2, and 3 were identified at slightly deeper (4 to 5 feet below surface) and Graves 10, 11, and 12 were identified at only 1.5 feet below the existing sidewalk. Most of the graves identified consisted of shallow stains that were slightly darker than the surrounding matrix. Nails were identified with Graves 2 and 3.

All of the identified graves were oriented east-to-west and those with identifiable ends exhibited heads on the western end. Graveshafts were ephemeral or nonexistent. Wooden planking above the coffin, previously identified by Creveling (1987), was identified in Graves 1, 2, and 7. No human remains were identified.

A single architectural feature (Feature A) was identified in the north trench. It appears to be the remnants of a brick footing likely associated with an earlier churchyard wall or structure that was removed or

destroyed during the construction of the 1820s churchyard wall. No evidence of the mass grave of Confederate soldiers was noted in the north trench despite the presence of a grave monument immediately to the west of the trench.

Conclusions

Burials within the Christ Church churchyard took place in considerable numbers in the southeastern quadrant of the yard. It appears that burials have historically been placed beyond the current churchyard, including the area of the current sidewalk and likely the adjacent roadway.

The burials observed followed Christian convention in their east-to-west orientation with head to the west. Wooden planking placed above the coffin, apparently to help protect the coffin from collapse under the weight of soil and similar to that observed by Creveling (1987), was noted in three cases.

Unfortunately, it is not possible to determine if this practice correlates with time or age/gender identity of the deceased. While Creveling (1987) noted filling and landscaping in his investigations, it appears that the North Washington Street side of the churchyard has not been subject to fill and that adjacent sidewalk and street areas have been cut down from their original grade.

No further archaeological investigation of the project area addressed by this investigation is recommended. However, it is evident that burials and other archaeological features can be expected throughout the churchyard and adjacent walkways and roadways. Extreme caution should be taken in any ground disturbing activities in these areas. Further, given the difficulty in identifying graves in the conditions that prevail in the area of Christ Church, monitoring of ground disturbing activities is an inadequate means of identifying and protecting burials and other archaeological resources. Accordingly, ground-disturbing activities of any kind should be preceded by manual archaeological investigations.

REFERENCES CITED

Cressey, Pamela J. And Steven J. Shepard

2000 Letter Addressed to John McCarthy, Greenhorne & O'Mara, Inc., from Alexandria Archaeology dated April 4, 2000.

Creveling, Donald K.

1987 Archaeological Investigations at Christ Church, Alexandria, Virginia. *Alexandria History* Vol. 7, pp. 31-37.

DeRossi, Lenora

1986 *Christ Church Yard Gravestones and Burial History*. Report prepared for Alexandria Archaeology, Office of Historic Alexandria, Virginia.

John Milner Associates, Inc.

1979 *Christ Church, Alexandria, Churchyard Wall*. Report prepared by John Milner and Associates, Inc., West Chester, PA.

FIGURES

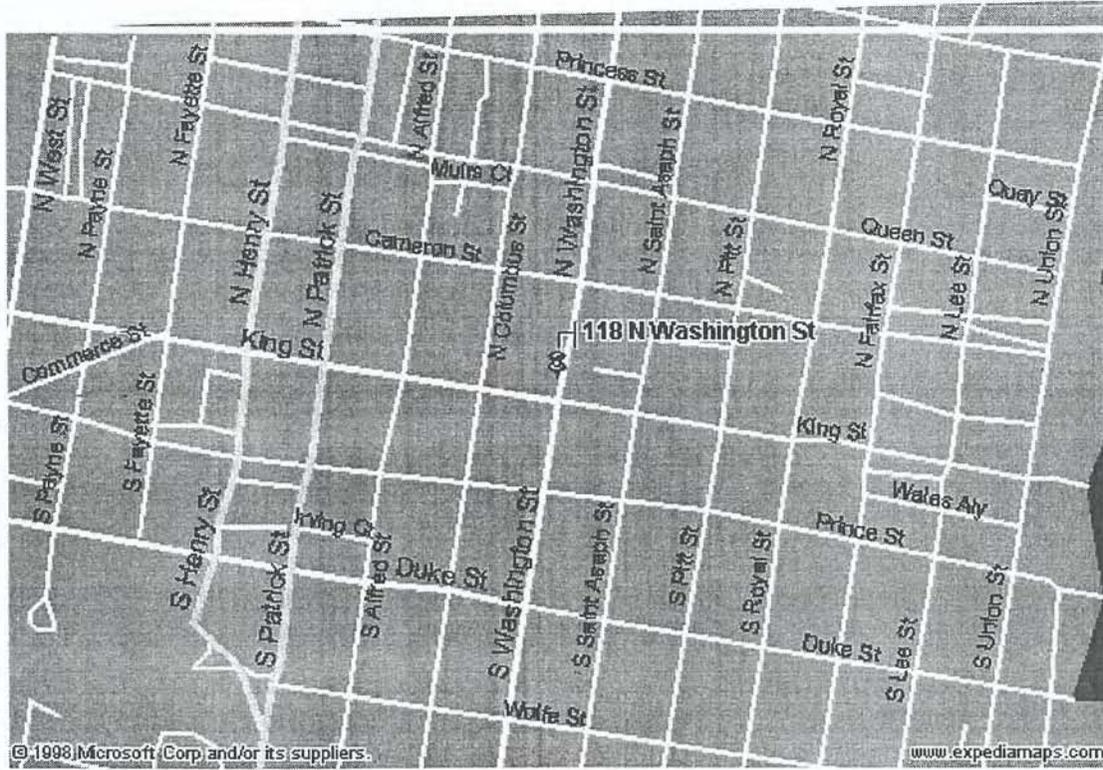


Figure 1. Location of the Project

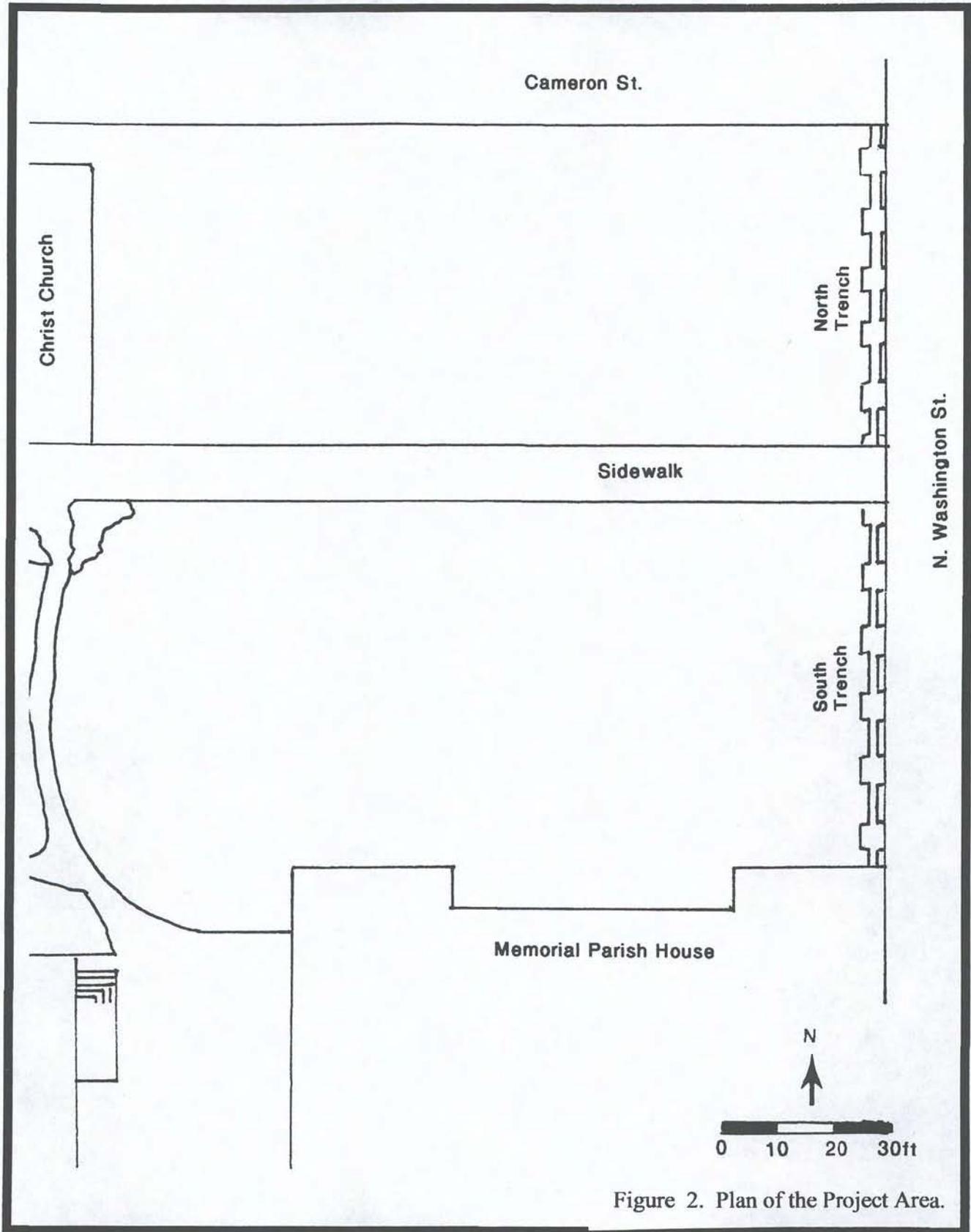


Figure 2. Plan of the Project Area.



Figure 3. Photograph of the South Trench. View to the South from the Sidewalk.

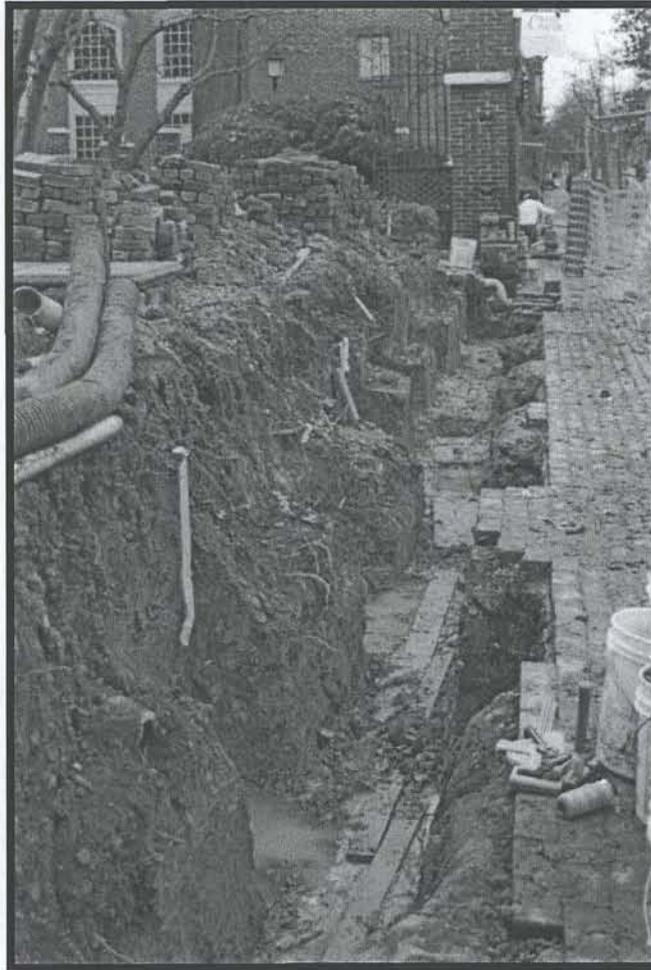
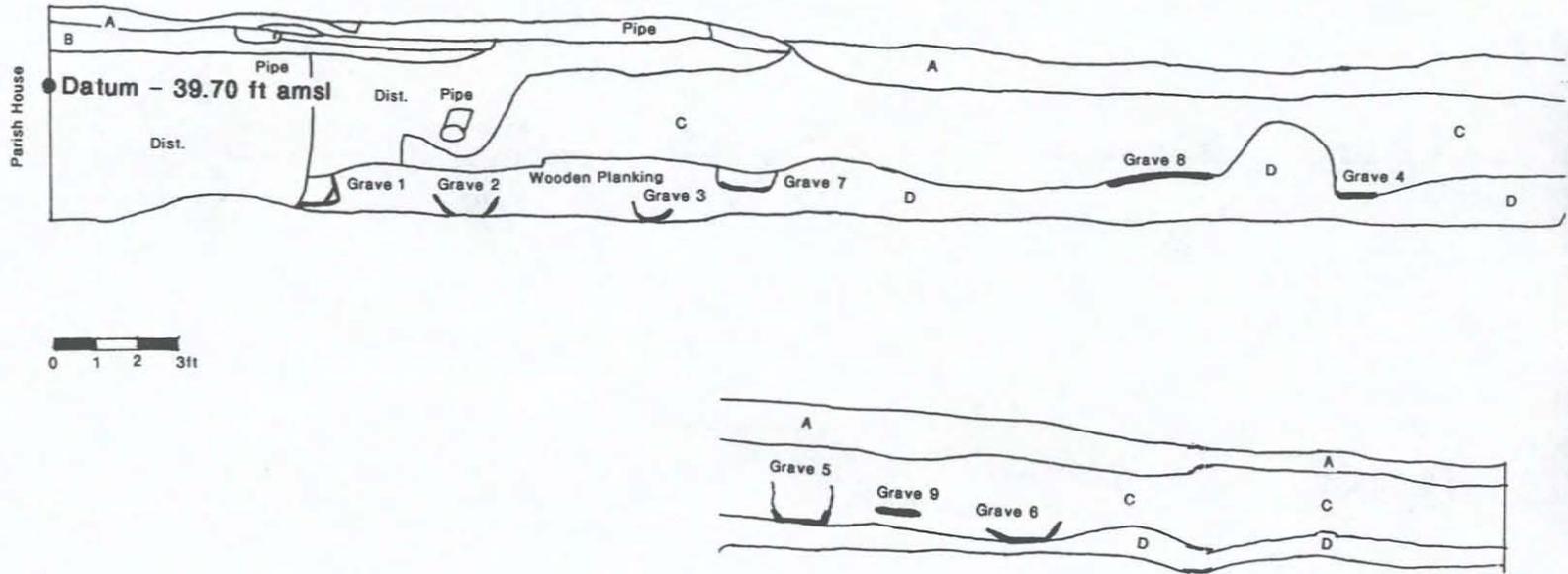


Figure 4. Photograph of the North Trench. View to the North from the Sidewalk.

WEST PROFILE – SOUTH TRENCH



- A – Humic Topsoil, very dark gray (10 YR 3/1) silt loam
- B – Very dark grayish brown (10 YR 3/2) silty clay,
Lens associated with disturbance
- C – Yellowish brown (10 YR 3/2) silty clay
- D – Subsoil, mottled yellowish brown (10 YR 5/8)
Light gray (10 YR 7/2) hardpacked clay

Figure 5. West Profile – South Trench.

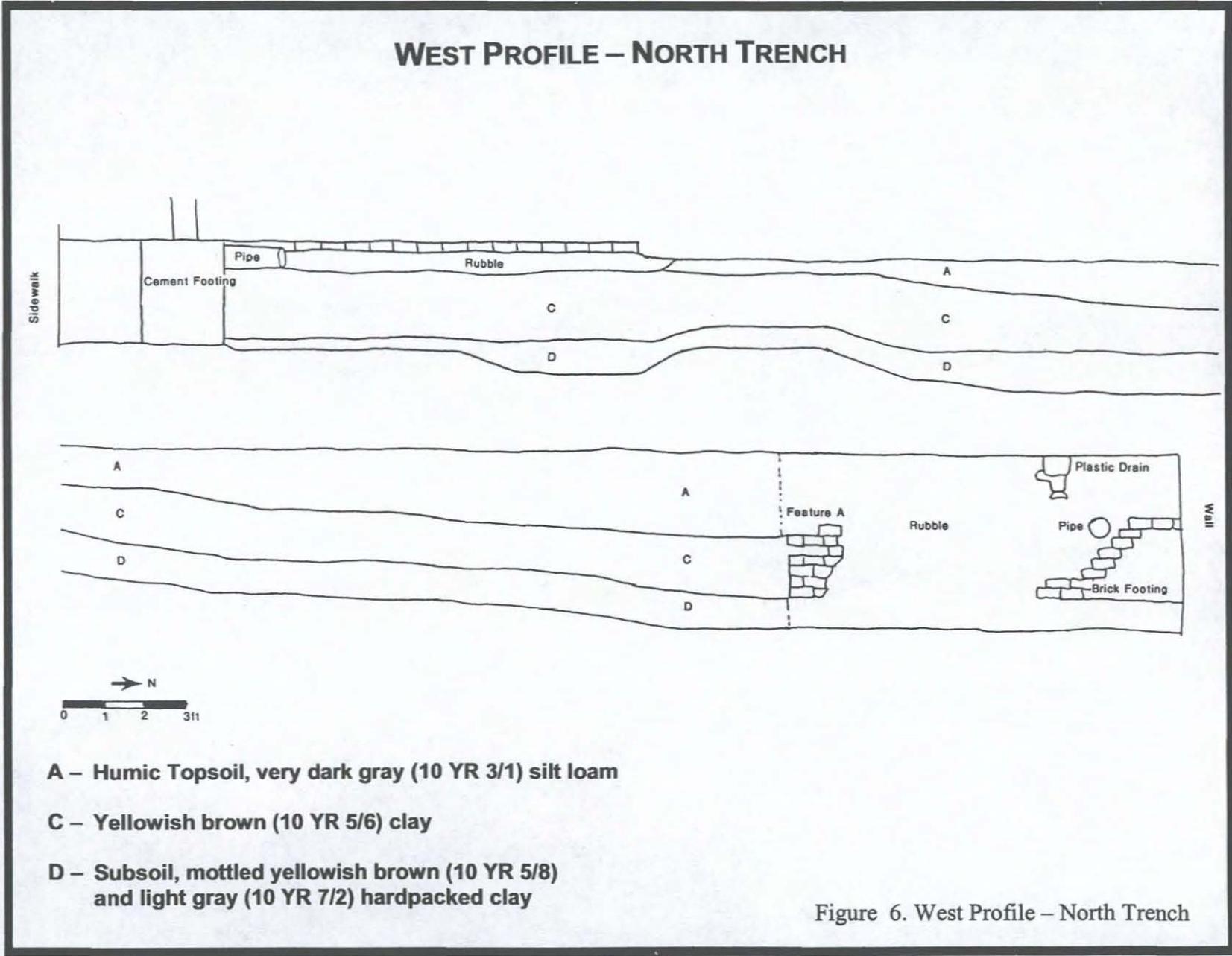
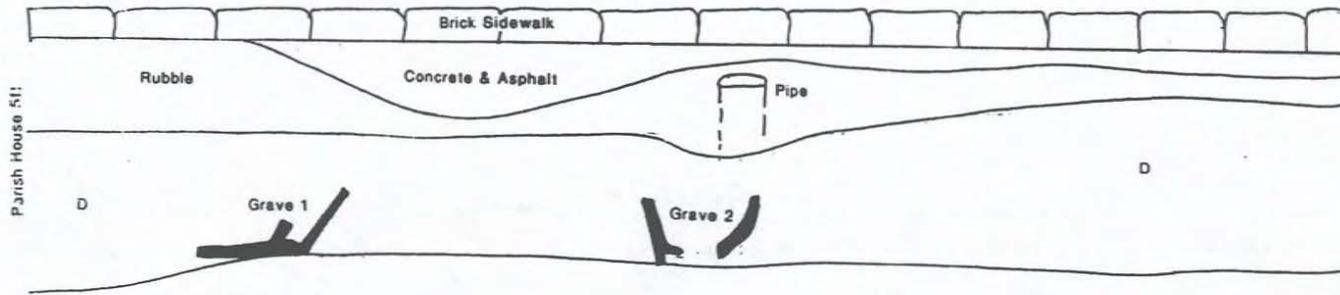


Figure 6. West Profile – North Trench

East Profile – South Trench

● Datum – 39.70 ft amsl



East Profile – North Trench

● Datum – 39.70 ft amsl

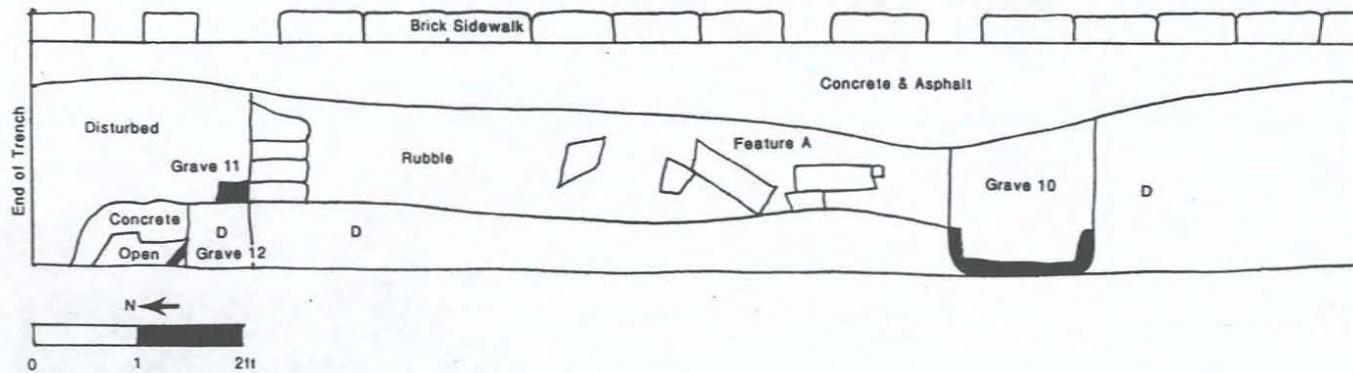


Figure 7. East Profile – South and North Trenches

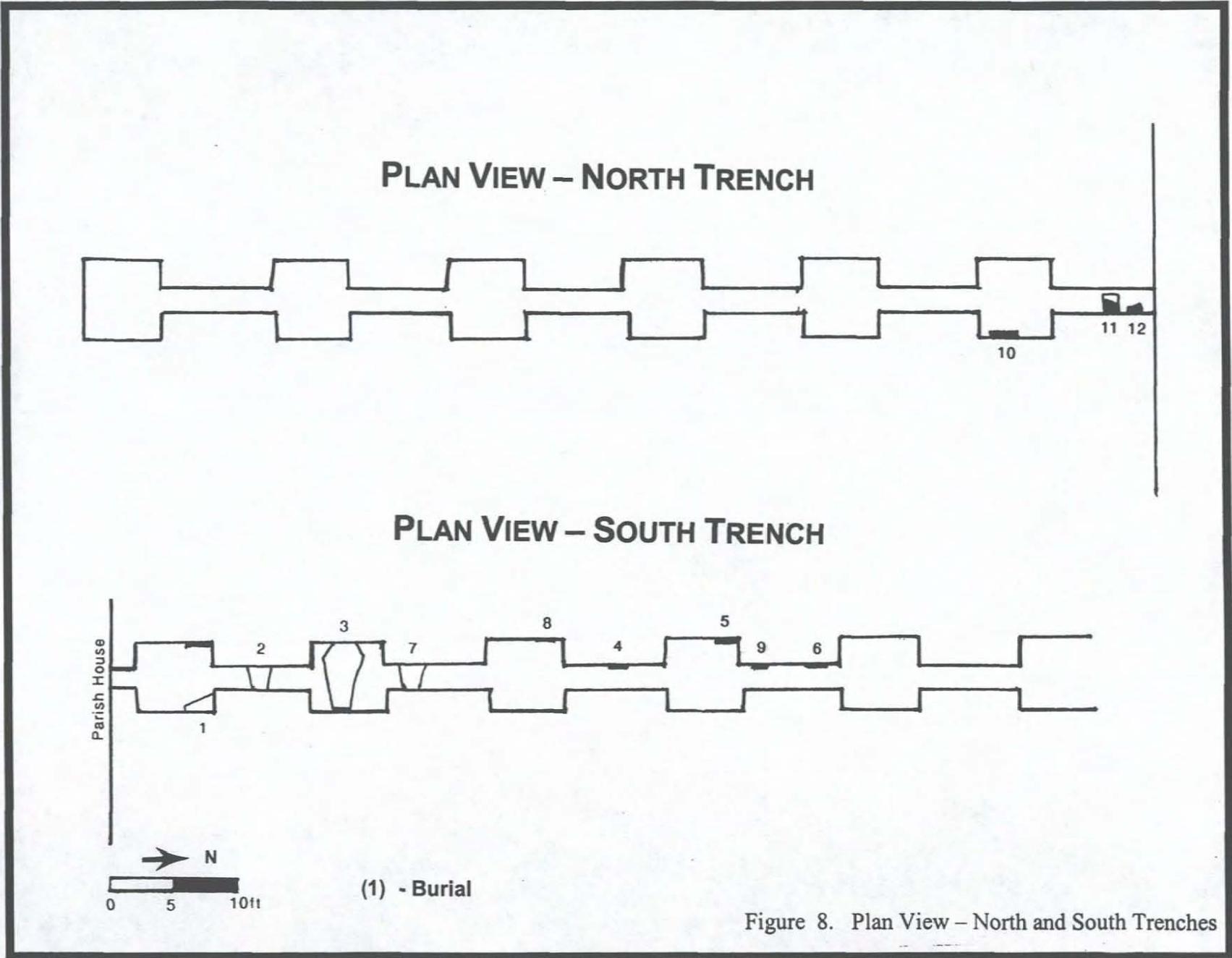


Figure 8. Plan View – North and South Trenches



Figure 9. Photograph of the Profile of Grave 1.

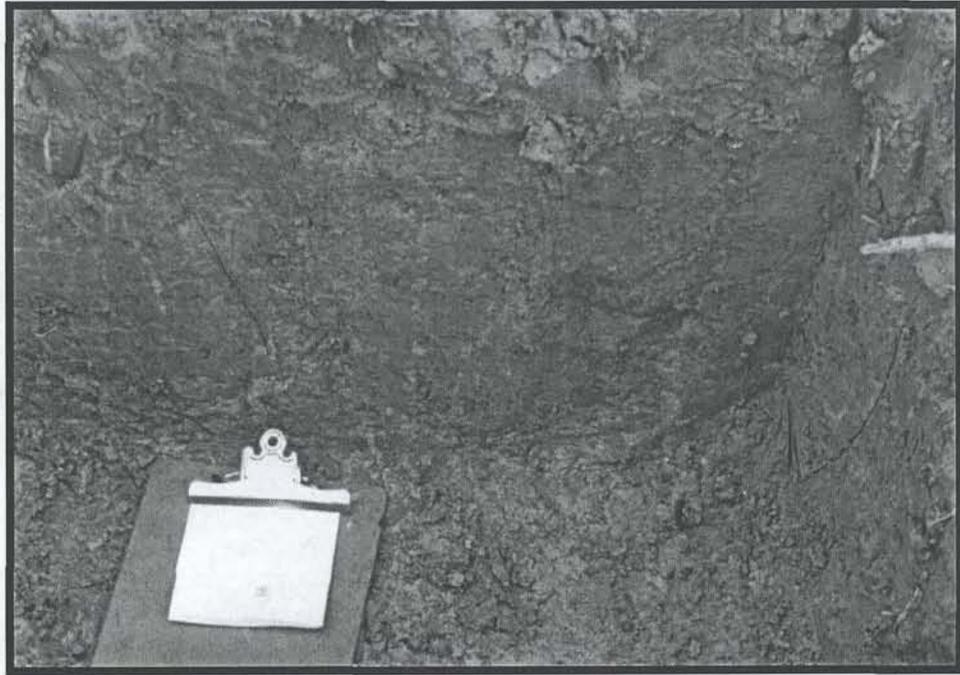


Figure 10. Photograph of the Profile of Grave 4.



Figure 11. Photograph of the Profile of Grave 7.



Figure 12. Photograph of the Profile of Grave 10.



Figure 13. Photograph of the Profile of Graves 12 and 11.

**APPENDIX A
BURIAL ELEVATIONS**

**CHRIST CHURCH MONITORING
BURIAL ELEVATIONS**

BURIAL	ELEVATION FROM DATUM (39.70 FT AMSL)		ELEVATION (FT AMSL)	
	TOP	BOTTOM	TOP	BOTTOM
1	2.11	2.75	37.59	36.95
2	2.16	2.40	37.54	37.30
3	2.81	3.06	36.89	36.64
4	--	3.02	--	36.68
5	1.78	2.20	37.92	37.50
6	2.50	2.72	37.20	36.98
7	2.25	2.98	37.45	36.72
8	2.07	--	37.63	--
9	2.51	--	37.19	--
10	2.72	3.56	36.98	36.14
11	2.10	2.50	37.60	37.20
12	2.75	3.10	36.95	36.60

APPENDIX B
ARTIFACT INVENTORY

CHRIST CHURCH MONITORING

ARTIFACT INVENTORY

BAG NO	PROVENIENCE	FEATURE	LAYER	LEVEL	DEPTH	COMMENTS	
COUNT	FUNCTION	MATERIAL			FORM	COLOR	DECORATION COMMENTS
BAG 1	SOUTH TRENCH, WEST WALL						
1	FAUNAL/ETHNOBOTANICAL	BONE		FILL	4-5' BELOW CEMETERY SURFACE		FROM FILL AGAINST PARISH HALL WALL LONG BONE
BAG 2	NORTH TRENCH, EAST WALL						
1	KITCHEN	HISTORIC CERAMIC	PEARLWARE	FILL	1' BELOW SIDEWALK		FROM DISTURBED AREA UNDER SIDEWALK
2	KITCHEN	HISTORIC CERAMIC	PEARLWARE		PLATFORM	BLUE	TRANSFER PRINTED
1	TOBACCO PIPE	HISTORIC CERAMIC	KAOLIN		PLATFORM	BLUE	TRANSFER PRINTED
1	KITCHEN	HISTORIC CERAMIC	PEARLWARE		TOBACCO PIPE		
4	FAUNAL/ETHNOBOTANICAL	BONE			UNIDENTIFIED		
1	FAUNAL/ETHNOBOTANICAL	BONE			COW		
					BIRD		
BAG 3	SOUTH TRENCH, WEST WALL						
3	ARCHITECTURAL	IRON		4 C	3' BELOW CEMETERY SURFACE		COFFIN NAILS FROM GRAVE 4 NO METAL CORE
					NAIL		
BAG 4	NORTH TRENCH, WEST WALL						
2	ARCHITECTURAL	MORTAR		A D	2' BELOW CEMETERY SURFACE		MORTAR SAMPLE FROM FEATURE A PLUS CRUMBS

APPENDIX C
QUALIFICATIONS OF THE INVESTIGATORS

JOHN P. MCCARTHY, RPA

Senior Project Manger, Cultural Resources

Exceeds 36CFR61 professional qualification standards in archacology, history, and architectural history, 1986.
Society of Professional Archacologists, certified in field research, muscology, and historical archacology, 1990.
Registered Professional Archacologist, 1998.

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Education

1998-	PhD Candidate	University of Wales, Lampeter, Archacology
1988	A.B.D.	Temple University, Anthropology
1986	M.A.	Temple University, Anthropology
1981	B.A.	Temple University, Anthropology/American Studies, <i>Magna Cum Laude</i>

Continuing Education

1999 Section 106: Working with the Revised Regulations. National Preservation Institute.
1998 Section 106: An Advanced Seminar. National Preservation Institute.
1998 Environmental Report Preparation and Environmental Compliance Workshops. Federal Energy Regulatory Commission.
1997 Basic Workplace Safety Certificate. Minnesota Safety Council/Minnesota OSHA.
1996 Cultural Resources and the National Environmental Policy Act. National Preservation Institute.
1996 Identification and Management of Traditional Cultural Properties. National Preservation Institute.
1996 Introducing Geographical Information Systems. Rowekamp Associates.
1996 Mini-MBA for Non-Profit Organizations. University of St. Thomas.
1996 Evaluating the Archacological Significance of Historic Sites. University of Nevada, Reno/Society for Historical Archacology.
1995 Site Discovery and Evaluation Methods, Techniques, and Recent Developments Workshops. Society for American Archacology/National Park Service.
1993 OSHA hazardous waste supervisor/manager training. BCM Engineers, Inc.
1991 OSHA 40-hour hazardous waste field training, Phoenix Safety Associates, Ltd.
1983 State and Federal Preservation Law Workshop. National Center for Preservation Law, National Trust for Historic Preservation, and the Pennsylvania Historical and Museum Commission.

Experience

1997- Present Senior Project Manager, Cultural Resources, Greenhorne & O'Mara, Inc.

1999- *Development of Plans and Specifications for the Stabilization of Two Historic Structures, Green County, PA.* (Project manager). US Army Corps of Engineers, Pittsburgh District.
1999 *Excavation of a Family Cemetery Plot, Fairfax County, Virginia* (Principal investigator). Private developer. Excavation and analysis of six poorly preserved graves dating from the mid 19th century.
1998 *Historical and Geophysical Investigations of a Reputed Historic Cemetery, Prince William County, VA* (Principal investigator). Private developer.

- 1998- *Phase II/III Archaeological Investigations, Lorton Town Center, Fairfax County, VA* (Task manager and principal investigator). Private developer.
- 1998-99 *Phase I Archaeological Survey of a One-Acre Parcel and Phase II Evaluation of Three Historic Archaeological Sites, George' Creek, Fayette County, PA* (Principal investigator). US Army Corps of Engineers, Pittsburgh District.
- 1998-99 *Historical and Archaeological Investigations of Known and Reputed Historic Cemeteries, Prince William County, VA* (Principal investigator). Private developer.
- 1998 *Phase I Archaeological Survey and Evaluation of Historic Structures, Glenbrook Development, Fredrick County, MD* (Project manager and principal investigator). Private developer.
- 1998 *Cultural Resources Program Support and Document Review* (Staff archacologist/architectural historian). Burcau of Environmental Quality, Central Office, Pennsylvania Department of Transportation.
- 1998 *Phase I Archaeological Survey for the Belvoir Farms Development, Anne Arundel County, MD* (Project manager and principal invstigator). Private developer.
- 1998 *Acton Lane Bridge Replacement, Phase I Archaeological Investigations, Charles and Prince George's Counties, MD* (Project manager and principal investigator). Progressive Engineering Consultants, Inc. and Charles County Department of Public Works.
- 1998 *Phase I Archaeological Survey, Proposed North Bethesda Post Office, Montgomery County, MD* (Task manager). Program Management Company and the U. S. Postal Service.
- 1997- *Phase II Archaeological Evaluation for the Villages of Piscataway, MD* (Quality control review and task management). Private developer.
- 1994-97 Vice President, Senior Archaeologist/Historian, IMA Consulting, Inc.**
- 1996-98 *National Register Evaluation, Nomination, and Preservation, Interpretive, and Management Planning for the Town of Kansas Site Urban Archaeological Park, Kansas City, MO* (Project manager and principal investigator). The Historic Preservation Division, City Planning and Development Department, Kansas City, Missouri.
- 1997-98 *Archaeological Survey and National Register of Historic Places Evaluation, Wisconsin Heights Battlefield (1832 Blackhawk War), Dane County, WI* (Project manager and principal investigator). Wisconsin Department of Natural Resources.
- 1997-98 *Geophysical Remote Sensing, Test Excavations, and Archaeological Monitoring of a Corridor for an Oxygen Pipeline Across the Town of Kansas Site, Kansas City, MO* (Project manager). Praxair, Inc.
- 1997-98 *Archaeological Survey, National Register of Historic Places Nomination, Exhibit Design, and Vegetation Management Plan for the La Rue Iron Mine Site, WI* (Project manager). The Mid-Continental Railroad Muscum and the State Historical Society of Wisconsin.
- 1997 *1997River Flood Damage to National Register-Listed Properties Study* (Archacological consultant). The Minnesota Historical Society, State Historic Preservation Office.
- 1997 *Preliminary Evaluation of Historic Archaeological Site Significance for the Iowa Portion, Alliance Pipe Line Project.* (Project consultant, quality control review). The Natural Resource Group, Inc. and the Alliance Pipe Line, L.P.

- 1996-97 *A Phase I Archaeological Survey of the Proposed Edison Heritage Park and a National Register of Historic Places Nomination of the Appleton Paper and Pulp Company Mill, City of Appleton, Outagamie County, WI* (Project manager and principal investigator). The City of Appleton.
- 1996-97 *Whitefish River Wild and Scenic Rivers Cultural Resources Evaluation, Hiawatha National Forest, Michigan*. (Project manager and principal investigator). The Natural Resource Group, Inc. and Great Lakes Gas Transmission Company.
- 1996-97 *Northern Minnesota Logging History National Register Multiple Resource Study and Nomination* (Project manager). The Minnesota Historical Society, State Historic Preservation Office.
- 1996 *An Archaeological Investigation of Portions of the Oak Point Intermediate School Property, The Rees Pottery Works Site (21HE221), Eden Prairie, Hennepin County, MN* (Project manager). The City of Eden Prairie.
- 1996 *Statement of Policy and Guidelines for Historic Building Maintenance and Repair at Historic Murphy's Landing Shakopee, MN* (Project manager and principal investigator). The Minnesota Valley Restoration Project, Historic Preservation Committee.
- 1996 *Archaeological Evaluation of the Battle Island Site (21AK9), Sandy Lake, Savanna Portage State Park, Mississippi River Headwaters, Aitkin County, Minnesota* (Project manager). The U. S. Army Corps of Engineers, St. Paul District.
- 1995-97 *Phase II Evaluation of Historic Archaeological Resources and Data Recovery Excavations at the Company Boarding House Site, Old Trunk Highway 45 Reconstruction, Scanlon, Carlton County, MN* (Project manager and principal investigator). The Carlton County (Minnesota) Highway Department.
- 1995-96 *A National Register Evaluation of Underwater and Water's-Edge Cultural Resources, Duluth Harbor, MN* (Project manager and principal investigator). The Minnesota Historical Society, State Historic Preservation Office.
- 1995 *An Archaeological Investigation of the Isaac Staples Mansion Site, Pioneer Park, Stillwater, Washington County, Minnesota* (Principal investigator). Stepan/Larsen Associates and the City of Stillwater.
- 1995 *A Phase I Archaeological Survey of the Byrne Residence Construction Site, St. Paul Seminary Campus, University of St. Thomas, St. Paul, Minnesota* (Project manager). The University of St. Thomas.
- 1994 *An Evaluation of an Historic Site on the Great Lakes Gas Transmission Company Pipeline Corridor in Hubbard County, Minnesota* (Principal investigator). The Natural Resources Group, Inc. and Great Lakes Gas Transmission Company.
- 1994-97 *An Archaeological Evaluation and Data Recovery Investigation at the New Federal Building/United States Courthouse, Minneapolis, Minnesota; Material Insights into Working Class Life in the Late 19th Century* (Project manager and principal investigator). The Leonard Parker Associates and the U.S. General Services Administration, Public Buildings Service.
- 1994-96 *Archaeological Data Recovery at the Bridgehead Site, Minneapolis, Minnesota Site Area B: Residential and Commercial Occupations in the Vicinity of 1st Street North and Site Areas E and F: The North Star Iron Works and the Pacific Saw Mill* (Principal investigator). The Federal Reserve Bank of Minneapolis.
- 1994-95 *National Register Evaluation of Archaeological and Historic Resources, Buena Vista, Beltrami County, Minnesota: An Abandoned Lumber Town* (Principal investigator). The Minnesota Historical Society, State Historic Preservation Office..

- 1994-95 *Phase IB/II Historic Archaeological Evaluation of Selected Parcels, Interstate 35W Improvement Program, Minneapolis, Hennepin County, MN* (Principal investigator). Applied geophysical remote sensing technology to evaluate archaeological resources over portions of nine city blocks. The Minnesota Department of Transportation.
- 1994-95 *A Phase I Cultural Resources Investigation of Proposed Levee and Floodwall Alignments, City of Grand Forks, ND* (Project manager and principal investigator). The U. S. Army Corps of Engineers, St. Paul District.
- 1994 *Small Scale Excavations at 32B163: The De Mores Packing Plant Site, Medora ND* (Principal investigator). The State Historical Society of North Dakota, Historic Sites Division.
- 1994 Senior Associate, Jeanne A. Ward, Inc.**
- 1994 *A Phase I Archaeological Survey for the Proposed Walmart Store Parcel, Ephrata Township, Lancaster Co., PA* (Project archaeologist). The Advanced Engineering Group and Walmart, Inc.
- 1994 *An Archaeological Evaluation of the Agricultural Hall Site, 36AD220, Gettysburg, PA.* (Principal investigator). The Adams County Housing Authority.
- 1994 *A Cultural Resources Reconnaissance Survey, Barracks Modernization, Building 15, U. S. Army Natick Research, Development, and Engineering Center, Natick, Middlesex County, MA* (Project archaeologist). Odgen Environmental and Energy Services, Inc. and the U. S. Army Corps of Engineers, New York District.
- 1994 *A Phase I Archaeological Survey of the Proposed Seyval San Sewer Line, Adamstown Borough, Lancaster Co., PA* (Principal investigator). Dr. Spencer S. Stober.
- 1987-94 Senior Associate/Project Manager, John Milner Associates, Inc.**
- 1994 *Phase IA and Phase IB Archaeological Investigations for the City of Bethlehem Raw Water Main Project, Upper and Lower Towamensing Townships, Carbon Co., PA* (Project manager). Gannett Fleming, Inc. and the City of Bethlehem Water Authority.
- 1993-94 *A Cultural Resources Survey of the Naval Complex Philadelphia (Philadelphia Navy Yard), Philadelphia, PA* (Project manager). Report prepared for the U.S. Department of the Navy, NAVFAC Northern Division.
- 1993 *A Phase I Archaeological Survey Associated with the Proposed Greens at Waynesborough Development, Eastown, Chester Co., PA* (Project manager and principal investigator). The Linpro Company, Inc.
- 1993 *A Cultural Resources Survey of the Naval Hospital Philadelphia, Philadelphia, PA* (Project manager). The U.S. Department of the Navy, NAVFAC Northern Division.
- 1993 *Lackawanna County, S.R. 1014 at S.R. 0247, Hill Street Realignment, Phase I Archaeological Survey and Historic Resources Investigation* (Project manager). The Pennsylvania Department of Transportation.
- 1993 *A Phase I and Phase II Archaeological Investigation of the Neshaminy Creek Bridge Replacement, S.R. 2010 (L.R. 09028), Section 08B, Bucks Co., PA* (Project manager and principal investigator). Blauvelt Engineers, P.C. and the Pennsylvania Department of Transportation.
- 1993 *A Supplemental Stage IA Archaeological Survey and Stage II Archaeological Evaluation at the King of Prussia Technical Corporation Superfund Site, Winslow Township, Camden Co., NJ* (Project manager and principal investigator). Geraghty & Miller, Inc. and the King of Prussia Technical Corporation Site Committee.

- 1993 *Lackawanna County, S.R. 1033 Section 270, Eight Avenue Bridge Replacement, City of Carbondale, Phase I Archaeological Survey and Historic Resources Investigation* (Project manager and principal investigator). The Pennsylvania Department of Transportation.
- 1993 *Lackawanna County, S.R. 4011, Section 270, Ackerly Creek Bridge Replacement, Dalton Borough, Phase I Archaeological Survey and Historic Resources Investigation* (Project manager). The Pennsylvania Department of Transportation.
- 1993 *A Phase I Archaeological Survey of the McMullan Tract, Pennsbury Township, Chester Co., PA* (Project manager and principal investigator). McGill Construction Company, Inc.
- 1993 *A Phase II Archaeological Evaluation of Site 36CR83 for the City of Bethlehem Raw Water Main Project, Lower Towamensing Township, Carbon Co., PA* (Project manager). Gannett Fleming, Inc. and the City of Bethlehem Water Authority.
- 1993 *A Stage IA Archaeological Survey of Proposed Remedial Activities at the King of Prussia Technical Corporation Superfund Site, Winslow Township, Camden Co., NJ* (Project manager and principal investigator). ERM Group, Inc. and the King of Prussia Technical Corporation Site Committee.
- 1993 *Pike County, S.R. 1017, Mill Rift Bridge Replacements, Westfall Township, Phase I Archaeological Survey and Historic Resources Investigation* (Project manager). The Pennsylvania Department of Transportation.
- 1993 *Wayne County, S.R. 4015, Park Street Bridge Replacement, Honesdale Borough, Phase I Archaeological Survey and Historic Resources Investigation* (Project manager). The Pennsylvania Department of Transportation.
- 1993 *A Phase I Archaeological Survey of the Proposed Detention Basin at the Northeast Philadelphia Airport and A Phase IA Archaeological Sensitivity Evaluation of the Southeast Section of the Northeast Philadelphia Airport, Philadelphia, PA* (Project manager and principal investigator). Roy F. Weston, Inc. and the Philadelphia Division of Aviation.
- 1993 *A Phase II Archaeological Evaluation of the Sorrel Horse Hotel Site (36MG201) for the Proposed Leader Nursing Center of Huntingdon Valley, Lower Moreland Township, Montgomery Co., PA* (Project manager and principal investigator). Manor Care, Inc.
- 1993 *A Phase II Archaeological Evaluation of Site 36CH309, Jones Farm Development, Thornbury Township, Chester Co., PA* (Project manager and principal investigator). The Jones Trust.
- 1993 *A Phase I Archaeological Survey of Sites 36CH308 and 36CH309 within the Proposed Jones Farm Development, Thornbury Township, Chester Co., PA* (Project manager). The Jones Trust.
- 1992-94 *Phase IB/III Archaeological Investigations at the Philadelphia Gateway Development Parcel: An Archaeological perspective on Philadelphia's 19th-Century Irish-American Community* (Project manager and principal investigator). Realen Gateway Development Associates, L.P.
- 1992-93 *Research Design for Archaeological and Historical Investigations of Five Points (Courthouse Block), Foley Square, New York, New York* (Project manager, contributor, and co-editor). Edwards and Kelcey Engineers, Inc. and the U. S. General Services Administration, Public Buildings Service.
- 1992 *A Phase I Archaeological Survey at the Site of the Proposed Leader Nursing Center of Huntingdon Valley, Lower Moreland Township, Montgomery Co., PA* (Project manager and principal investigator). Manor Care, Inc.

- 1992 *Draft Research Design for Archaeological, Historical, and Bioanthropological Investigations of the African Burial Ground and Five Points Sites, Foley Square, New York, New York* (Project manager, contributor, and co-editor). Edwards and Kelcey Engineers, Inc. and the U.S. General Services Administration, Public Buildings Service.
- 1992 *A Stage IA Archaeological Survey of the Ellis Property Site, Evesham and Medford Townships, Burlington Co., NJ* (Project manager and principal investigator). Roy F. Weston, Inc. and the New Jersey Department of Environmental Protection and Energy.
- 1992 *Completion of a Phase II Archaeological Evaluation of the Walmart Retail Store Site (36 TI 79), Richmond Township, Tioga Co., PA*. Wolverton & Associates, Inc. and Walmart, Inc.
- 1992 *Phase IA Archaeological Survey of Alternates 6/6A Revised and 6/6A Modified for the University of Maryland Eastern Shore Access Road, Somerset Co., MD* (Principal investigator and principal investigator). The Maryland Department of Transportation, State Highway Administration.
- 1992 *A Stage IA Cultural Resources Survey of the NSNJ/NL Property, Oldmans Township, Salem Co., NJ* (Project manager and principal investigator). O'Brien and Gere Engineers, Inc. and NL Industries, Inc.
- 1992 *Phase IA Archaeological Survey of the Sixteen-inch Camden Lateral Loop and Meter Station, Cities of Camden and Gloucester, Camden Co., NJ* (Project manager and principal investigator). The Transcontinental Gas Pipe Line Corporation.
- 1992 *A Stage IA Cultural Resources Survey of the Pine Street Canal Superfund Site, Burlington, VT* (Project manager). Metcalf & Eddy, Inc. and the U. S. Environmental Protection Agency.
- 1992 *A Phase IA Archaeological Survey of the C&D Recycling Property, Foster Township, Luzerne Co., PA* (Project manager and principal investigator). McLaren/Hart Environmental Engineering and AT&T Nassau Metals Corporation.
- 1991-94 *The Keeler Site: The Historic Archaeology of a Quaker Farmstead on Conanicut Island, Rhode Island. Archaeological Data Recovery in Association with the Final Design of Route 138, Jamestown, RI* (Principal investigator). Excavation of portions of the yard of an eighteenth-century Quaker farm complex. Wilbur Smith and Associates and the Rhode Island Department of Transportation.
- 1991 *A Stage IA Archaeological Survey of the L. E. Carpenter Company Property, Wharton Borough, Morris Co., NJ* (Project manager and principal investigator). M. A. Hanna Company and Roy F. Weston, Inc.
- 1991 *Phase IA Archaeological Survey, Philadelphia County, S. R. 2001, Section B01, Delaware Avenue Extension, Environmental Studies* (Project manager and principal investigator). Urban Engineers, Inc. and the Pennsylvania Department of Transportation.
- 1991 *Stage IA and IB Archaeological Investigations Associated with Remedial Studies at the L & D Landfill, Burlington Co., NJ* (Project manager and principal investigator). GeoSyntec Consultants, Inc.
- 1991 *A Phase I Archaeological Survey of Cedar Areas East, East Lampeter Township, Lancaster Co., PA* (Project manager and principal investigator). E. James Hogan and Associates.
- 1991 *A Historic Archaeological Evaluation of the Philadelphia Gateway Development Parcel (Vine Street Block 32), Vine (Summer) to Spring Streets and 15th to 16th Streets, Philadelphia, PA* (project manager and principal investigator). Realcen Gateway Development Associates.
- 1991 *A Stage IA Archaeological Survey of the Witco Corporation Property, Oakland Borough, Bergen Co., NJ* (project manager). Roy F. Weston, Inc. and the Witco Corporation, Inc.

- 1991 *Phase IB Archaeological Survey of Alternates for the University of Maryland Eastern Shore Access Road, Somerset Co., MD* (Field director). The Maryland Department of Transportation, State Highway Administration.
- 1991 *A Stage IA Archaeological Survey of the King of Prussia Technical Corporation Superfund Site In Winslow Township, Camden Co., NJ* (Project manager). IERM Group, Inc. and the King of Prussia Technical Corporation Site Committee.
- 1991 *A Phase IB Archaeological Survey, BATCS D1 and D2 Wetlands Replacement Area at the Chesapeake Baptist Church Property, Anne Arundel Co., MD* (Principal investigator). The Maryland Department of Transportation, State Highway Administration.
- 1991 *Montgomery County, S.R. 0202, Section 100, King of Prussia Inn (36 MG 200), Archaeological Investigations* (Project manager and principal investigator). BCM Engineers, Inc. and the Pennsylvania Department of Transportation.
- 1990-94 *History, Archaeology, and Physical Anthropology of the Tenth Street First African Baptist Church Cemetery, Philadelphia, PA*. Data recovery excavation of the remains of over 140 individuals during a 30-day window in the construction schedule of the Vine Street Expressway (Project manager and principal investigator). Gaudet & O'Brien Associates/Urban Engineers, Inc. and the Pennsylvania Department of Transportation.
- 1990-92 *Delaware County, L.R. 1010 (I-476), Section 675, Radnor Park and Ride Facility, Phase I Archaeological Survey Report* (Project manager). BCM Engineers, Inc. and the Pennsylvania Department of Transportation.
- 1990 *An Archaeological Evaluation of a Portion of the Site of the Former Philadelphia General Hospital, Philadelphia, PA* (Principal investigator). The University of Pennsylvania.
- 1990 *Lehigh County, S.R. 1004, Section 01B, Lehigh Canal Bridge Replacement, Phase I Archaeological Survey* (Principal investigator). Greenhorn & O'Mara, Inc. and the Pennsylvania Department of Transportation.
- 1990 *An Evaluation of Effect(s), Northeast Settlement Projects Pipeline Crossing of the Farmington Canal, New Haven Co., CT* (Principal investigator). Stone & Webster Engineering Corporation and the Tennessee Gas Pipeline Company.
- 1990 *A Phase IB Archaeological Reconnaissance: Improvements to Maryland Route 439 from Maryland Route 45 to the Harford Co. Line, Baltimore Co., MD* (Field director). The Maryland Department of Transportation, State Highway Administration.
- 1990 *A Phase IB Archaeological Survey: Maryland Route 5 Leonardtown By-Pass Wetland Replacement Areas, St. Mary's Co., MD* (Principal investigator). The Maryland Department of Transportation, State Highway Administration.
- 1990 *Phase IB Archaeological Survey, Improvements to Maryland Route 8 South of Route 50/301, Queen Anne's County, Maryland* (Principal investigator). The Maryland Department of Transportation, State Highway Administration.
- 1989-91 *Archaeological Monitoring and Evaluation of the Brook's Inn Site in Conjunction with the Construction of the New United States Post Office, Upper Marlboro, MD* (Principal investigator). Hayes, Scay, Mattern & Mattern and the U.S. Postal Service.

- 1989 *Cultural Resources Survey and Evaluation, Wesel Boulevard, City of Hagerstown and Washington County* (Principal investigator). The Maryland Department of Transportation.
- 1989 *Archaeological Evaluation and Data Recovery at the Northwest Corner of the Dorneyville Intersection, Hamilton Boulevard and Cedar Crest Boulevard, L.R. 157, Section D32, Dorneyville Access, Lehigh Co., PA* (Project manager and principal investigator). BCM Engineers and the Pennsylvania Department of Transportation.
- 1989 *An Archaeological and Historical Reconnaissance of the Dege Farm Property (Bedford Chase Development), Tewksbury Township, Hunterdon Co., NJ* (Project manager). Custom Living Homes and Communities.
- 1989 *A Prehistoric Archaeological Survey of Sutton Farm, Block 14, Lot 17, Tewksbury Township, Hunterdon Co., NJ* (Project manager). Planned Residential Communities, Inc.

1985-87 Principal Archaeologist, John Milner Associates, Inc.

- 1987 *Vine Street Expressway, L.R. 67045: Archaeological Monitoring in the Block Bounded by Vine, Race, Thirteenth, and Broad Streets, Philadelphia, PA* (Principal investigator). Michael Baker, Jr., Inc. and the Pennsylvania Department of Transportation.
- 1987 *Historic Structures Report for Pennsbury Manor* (Project manager, co-editor, and compiler). The Pennsbury Society and the Pennsylvania Historical and Museum Commission.
- 1986-90 *Stage I Data Recovery, The Addison Plantation Site, 18 PR 175, Beltway Parcel, PortAmerica Development, Oxon Hill, Prince George's Co., MD* (Project manager and co-principal investigator). James T. Lewis Enterprises, Ltd.
- 1986-88 *Intensive Archaeological Survey of the Addison Plantation Site and Intensive Archaeological Testing of the Addison Manor Foundations, Beltway Parcel, PortAmerica Development, Oxon Hill, Prince George's Co., MD* (Project manager and field director). James T. Lewis Enterprises, Inc.
- 1986 *Determination of Eligibility Report for Archaeological Resources Associated with the Mid-County Expressway, L.R. 1010, Sections 300 and 400, Delaware Co., PA.* (Principal investigator). Urban Engineers, Inc. and the Pennsylvania Department of Transportation.
- 1986 *Historic Structure Report for the Moon-Williamson House, Fallsington, Bucks Co., PA* (Project manager, editor, and compiler). Historic Fallsington, Inc.
- 1986 *Determination of No Adverse Effect Report and Data Recovery Plan for Archaeological Resources Associated with the Mid-County Expressway, L.R. 1010, Sections 300 and 400, Delaware Co., PA.* (Principal investigator). Urban Engineers, Inc. and the Pennsylvania Department of Transportation.
- 1986 *Determination of Eligibility Report for Archaeological Resources Associated with the Mid-County Expressway, L. R. 1010, Section 500, Delaware Co., PA* (Principal investigator). The Delta Group, Inc. and the Pennsylvania Department of Transportation.
- 1985-87 *Vine Street Expressway, L. R. 67045: Archaeological Data Recovery Investigations in the Block Bounded by Ninth, Tenth, Vine and Winter Streets, Philadelphia, PA* (Principal investigator). Michael Baker, Jr., Inc. and the Pennsylvania Department of Transportation.
- 1985 *Vine Street Expressway, L.R. 67045: Phase II Archaeological Investigations in the Block Bounded by Vine, Callowhill, Seventh, and Eighth Streets, Philadelphia, PA* (Principal investigator). Michael Baker, Jr., Inc. and the Pennsylvania Department of Transportation.

- 1985 *Study Design for Phase II Archaeological Investigations, Sections 300 and 400, Mid-County Expressway, Delaware Co., PA* (Principal investigator). Urban Engineers, Inc. and the Pennsylvania Department of Transportation.
- 1985 *Stage I Archaeological Survey of Proposed Improvements at Waterfront Park, Gloucester City, Camden Co., NJ* (Principal investigator). Remington and Vernick Engineers and the City of Gloucester City.
- 1985 *Study Design for Phase II Archaeological Investigations, Section 500, Mid-County Expressway, Delaware Co., PA* (Principal investigator). The Delta Group, Inc. and the Pennsylvania Department of Transportation. West Chester, PA.

1984-85 Project Archaeologist, John Milner Associates, Inc.

- 1984-90 *Phase II and Phase III Archaeological Investigations at the Site of the Proposed Sheraton Society Hill, Front and Dock Streets Site, Philadelphia* (Field director). Evaluation and excavation of seventeenth- and eighteenth-century features. The Rouse Corporation and The Redevelopment Authority of the City of Philadelphia.
- 1984 *Archaeological and Architectural Investigations of Selected Outbuildings at the Peter Wentz Farmstead, Worcester Township, Montgomery Co., PA.* (Field director). The Montgomery County Department of Parks and Historic Sites.
- 1984 *Vine Street Expressway, L.R. 67045: Phase II Archaeological Investigations in the Block Bounded by Ninth, Tenth, Vine, and Winter Streets, Philadelphia, PA.* (Principal investigator). Michael Baker, Jr., and the Pennsylvania Department of Transportation.

1983-84 Senior Environmental Specialist (Archaeology), Office of New Jersey Heritage (NJSHPO), Department of Environmental Protection.

Conducted Section 106 compliance review of federally funded, licensed, or approved undertakings and related documentation. Evaluated National Register of Historic Places nominations and determination of eligibility documentation for historic structures and archaeological resources, and assisted in the review of Tax Act and federally funded restoration projects for compliance with the Secretary of the Interior's Standards for Rehabilitation. Participated in public outreach and education programs. Instituted guidelines for compliance archaeology projects in New Jersey.

1981-83 Vice President/Principal Investigator, Cultural Heritage Research Services, Inc.

- 1983 *Cultural Resources Survey: Welty's Mill Bridge Replacement, Franklin Co., PA* (Project architectural historian). Yule Jordan, Inc. and Pennsylvania Department of Transportation.
- 1983 *Archaeological Survey, Sussex Turnpike, Morris Co., NJ* (Co-project archaeologist). The New Jersey Department of Transportation.
- 1982-83 *Archaeological Survey of the Task Force Alignment, I-476, Delaware Co., PA* (Project manager and principal investigator). Yule Jordan/Greiner, Inc. and the Pennsylvania Department of Transportation.
- 1982 *Artifact Processing, Analysis, and Exhibit Design, Archaeological Data Recovery at the New Federal Reserve Bank of Richmond, Baltimore Branch.* (Co-principal investigator). The Federal Reserve Bank of Richmond.

1978 Field Assistant, Tim Rockwell Archaeology

Restoration Excavations at Ellwood Manor on the Wilderness Battlefield. (Field assistant). The National Park Service, Mid-Atlantic Regional Office.

Data Recovery Investigations and Ruin Stabilization at the Wilderness Tavern Site (Field assistant). The National Park Service, Mid-Atlantic Region.

1978 Archaeological Technician, Anthropology Department, Temple University

Archaeological investigation of the Catherine Furnace Site, Wilderness Battlefield (Technician). The National Park Service, Mid-Atlantic Region.

Phase I Archaeological Survey of Park Improvements (Technician) Mercer County Park Authority.

1977 Archaeological/Cartographic Technician (Intern Program), National Trust for Historic Preservation, Leesburg, VA.

Test Excavations and HABS Recordation of the Oatlands Mill Complex.

1976-77 Research Technician, Bishop Mills Historical Institute, Edgemont, PA.

Restoration Excavations at the Colonial Pennsylvania Plantation Site involving high school student participants.

Exploratory Excavations at the Bishop Grist and Rolling Mills Sites.

Field Research on 18th-century Barn and Bridge Forms in Chester County, PA.

1975 National Trust For Historic Preservation, Work-Study Program (Field School) in Historical Archaeology and Museum Interpretation, Belle Grove, Middletown, VA.

Excavation and Public Interpretation of the Site of an 18th-century residence and Civil War battlefield site.

1974-75 Unpaid Volunteer Experience

1975 *Assisted in Analysis of Lithic Tools, Mispillian Site, Delaware.* Examined lithic tools and recorded evidence of useware.

1974 *Participated in Surface Survey for Prehistoric Archaeological Sites in the Coastal Zone, Maryland Eastern Shore.* University of Washington.

1974 *Participated in Surface Survey for Prehistoric Sites, Cedar Neck Settlement Study, Delaware.*

Publications

In Press Sanitation Practices, Depositional Processes, and Interpretive Contexts of Minneapolis Privies (senior author with Jeanné A. Ward) *Historical Archaeology* (expected publication: late 1999).

Book Review: *Cahokia: Domination and Ideology in the Mississippian World*, edited by Timothy R. Pauketat and Thomas E. Emerson, 1997, *Borderlands: Studies in American Culture*. (expected publication: late 1999).

- Depositional Analysis and Interpretive Context in Minncapolis Urban Archacology: Just Whose Stuff Was This Anyway? (senior author with Jeannce A. Ward and Karl W. Hagglund). in *Proceedings of the First Historical Archaeology Conference of the Upper Midwest*, edited by John P. McCarthy and Jeannce A. Ward. Institute for Minnesota Archacology, Minncapolis (expected publication: mid 1999).
- Book Review: *African Muslims in Antebellum America: Transatlantic Stories and Spiritual Struggles*, Allan D. Austin, 1997. *Borderlands: Studies in American Culture*. (expected publication: mid 1999).
- 1998 Seventeenth-Century Quaker Lifestyles: Philadelphia's Merchant Elite at the Front and Dock Streets Site. *Journal of Middle Atlantic Archaeology* 15:137-155.
- The Lorton Town Center Archacology Project Partnership (senior author with Michael Johnson and Nancy Anthony). *CRM: Cultural Resources Management* 22(9):5-7.
- 1998 Seen But Not Read: Archacological Perspectives on the Lives and Deaths of 19th-Century American Working People. *Nineteenth Century Studies* 12:127-33.
- Book Note: *Landscape Archaeology: Reading and Interpreting the American Historical Landscape*. Edited by Rebecca Yamin and Karen Beschercr Mctheny. *American Antiquity*. 63(1):188.
- Plates in Graves: An Africanism? *African-American Archaeology* 21:2,8.
- Book Review: *Managing Archaeology*. Edited by Malcolm A. Cooper, Antony Firth, John Carman, and David Wheatley, 1995. *Historical Archaeology* 32(2):118-19.
- Book Review: *Culture Change and the New Technology: An Archaeology of the Early American Industrial Era*, Paul A. Shackel, 1996. *The Public Historian*. 20(1):71-74.
- 1997 Book Review: *How the Irish Became White*. Noel Ignatiev, 1995. *Borderlands: Studies in American Culture* 4(4):406-407.
- Book Review: *All the Modern Conveniences: American Household Plumbing, 1840-1890*. Maureen Ogle, 1996. *Journal of Urban Technology* 4(2):108-09.
- Review Essay: *Dark Voices: W. E. B. Du Bois and American Thought, 1888-1903*. Shamoan Zamir, 1995, and *The Philadelphia Negro: A Social Study*. W. E. B. Du Bois, with a new introduction by Elijah Anderson, 1996. *Borderlands: Studies in American Culture* 4(1):78-81
- Book Review: *The Metropolitan Frontier: Cities in the Modern American West*. Carl Abbott, 1993 (1995 paperback edition). *The Journal of Urban Technology* 4(1):103-05.
- Material Culture and the Performance of Sociocultural Identity: Community, Ethnicity, and Agency in the Burial Practices at the First African Baptist Church Cemeteries, Philadelphia, 1810-1841. In *American Material Culture, The Shape of the Field*, edited by Ann Smart Martin and J. Ritchie Garrison, pp. 359-79. The Henry Frances du Pont Winterthur Museum, Winterthur, DE, and The University of Tennessee Press, Knoxville.
- Book Review: *Digging Through Darkness: Chronicles of an Archaeologist*. Carmel Schrire, 1995. *Historical Archaeology*. 31(2):93-94.
- The First African Baptist Church Cemeteries: African-American Mortality and Trauma in Antebellum Philadelphia. (co-author with Thomas A. J. Crist, Daniel G. Roberts, Reginald H. Pitts, and Michael Parrington). In *In Remembrance: Archaeology and Death*, edited by David A. Poirier and Nicholas E. Bellantoni, pp. 19-49. Bergin & Garvey, Westport, CT.

- Book Review: *The Recovery of Meaning: Historical Archaeology in the Eastern United States*. Edited by Mark P. Leone and Parker B. Potter, Jr., 1988 (1996 paper edition). *Social Anthropology* 5(3):325-26.
- 1996 Who Owns These Bones?: Descendant Community Rights and Partnerships in the Excavation and Analysis of Historic Cemetery Sites in New York and Philadelphia. *Public Archaeology Review* 4(2):3-12.
- The Mille Lacs Indian Museum, Mille Lacs, Minnesota. A Museum of Their Own: A Native American Community Strives to Express Its Identity *Borderlands: Studies in American Culture* 3(4):418-420 (Special Issue on Native American Identity).
- Shopping As Meaningful Action: Toward a Redefinition of Consumption in Historical Archaeology (Co-author with Lauren J. Cook and Rebecca Yamin). *Historical Archaeology* 30(4):50-65.
- Book Review: *The Whiskey Rebellion: Southwestern Pennsylvania's Frontier People Test the American Constitution*, Jerry A. Clouse, 1994. *The Public Historian* 18(1):113-15.
- Workshops of the Status of Urban Archaeology in the United States: An Opportunity for Discussion (co-author with Terry Klein and Susan Henry Renaud). *The Society for Historical Archaeology Newsletter* 29(4):13-15.
- Book Review: *Cities of the Mississippi: Nineteenth-Century Images of Urban Development*. John W. Repts, 1994. *The Journal of Urban Technology* 3(2): 106-07.
- Conference Report: African Impact on the Material Culture of the Americas. *African-American Archaeology* 16:1-2.
- Book Note: *Black Athena Revisited*, Mary R. Lefkowitz, and Guy MacLean (editors), 1996. *African-American Archaeology* 16:9.
- African-American Studies: Research Reveals Ties to Traditional Lifeways. *Archaeology and Public Education* 6(1):3, 11-12.
- 1995 The Evolution of the Study of African Culture in America. *African-American Archaeology* 15:1-4.
- Book Review: *A Chesapeake Family and Their Slaves: A Study in Historical Archaeology*, Anne Elizabeth Yentsch, 1994. *Journal of Middle Atlantic Archaeology* 11:171-72.
- Book Review: *The Perfect City*, Bob Thall. 1994. *Vernacular Architecture Forum Newsletter* 65:23-24.
- Descendant Community Partnering in the Archaeological and Bioanthropological Investigation of African-American Skeletal Populations: Two Interrelated Cases from Philadelphia (co-author with Daniel G. Roberts). In *Bodies of Evidence: Reconstructing History Through Skeletal Analysis*, edited by Anne L. Grauer, pp. 19-36. John Wiley & Sons, Inc., New York.
- 1994 Archaeologists in Tyvek: A Primer on Archeology and Hazardous Materials Environments. *Society of Professional Archeologists Newsletter* 18 (2):1-3,14.
- Book Review: *200 Years of Soot and Sweat: the History and Archeology of Vermont's Iron, Charcoal, and Line Industries*, Victor R. Rolando 1992. *The Public Historian* 16 (3):81-82.
- 1991 *Abstracts in Maryland Archaeology* 7 (1 & 2) (assistant editor). Council for Maryland Archaeology.

Arms from Addison Plantation and the Maryland Militia on the Potomac Frontier (senior author with Jeffrey B. Snyder and Billy R. Roulette, Jr.). *Historical Archaeology* 25 (1):66-79.

Book Review: *A History of Archaeological Thought*, Bruce G. Trigger, 1989. *American Antiquity* 56 (1):161-162.

Book Review: *Material Culture and Mass Consumption*, David Miller, 1987. *Historical Archaeology* 25 (2):115-116.

1990 *Abstracts in Maryland Archaeology* 6 (1 & 2) (assistant editor). Council for Maryland Archaeology.

An Archaeologist's Thoughts on History in Cultural Resources Management. *Public History News* 10 (2):3, 11.

Archaeologists and Historians: Working Together in Cultural Resources Management? *Society of Professional Archeologists Newsletter* 15 (11):2-3.

Review: Three Cultural Resource Management Reports in the Delaware Department of Transportation's Archaeological Series. *The Public Historian* 12 (3):140-143.

1985 Book Review: *Farm Servants and Labour in Lowland Scotland, 1770-1914*, T. M. Devine, editor, 1984. *Anthropology of Work Review*, 6 (4):48-50.

1984 Digging the City: Urban Archaeology in the Era of Cultural Resources Management. *The 1983 Middle Atlantic Archaeological Conference Proceedings*, edited by June Evans, pp. 134-142. American University, Department of Anthropology, Washington.

Guidelines for Archaeological Investigations in Cultural Resources Management in New Jersey (Draft). Office of New Jersey Heritage, Department of Environmental Protection, Trenton.

1983 Politics in the Lurin Valley, Peru, During the Early Intermediate Period (co-author with Thomas C. Patterson and Robert A. Dunn). *Nawpa Pacha*, 20:61- 82.

1981 *Archaeological Investigations at the Original Site of Washington College*. Washington College, Chestertown, Maryland.

Discerning Patterns in an Urban Context: An Example from Philadelphia (co-author with Kenneth J. Basalik). *The Conference on Historic Sites Archaeology Papers, 1979*, 14:3-27.

1980 *Summary Report of Archaeological Investigations: The Federal Reserve Bank Site, Baltimore, Maryland* (co-author with Kenneth J. Basalik). Maryland Historical Trust Occasional Papers, Vol. 15, Annapolis.

Selected Presentations

1999 "Whose Stuff Was This Anyway? And Why Is It Important?": Association and Context in Historical Archaeology. Transportation Research Board, AF102/AF105 Committees Summer Workshop, Madison, WI.

Material Manifestations of the Performance of Sociocultural Identity in Antebellum Philadelphia: African-Influenced Burial Practices at the First African Baptist Church Cemeteries. 5th Performance Studies Conference, Aberystwyth, Wales, UK

African-Influenced Burial Practices and Sociocultural Identity in Antebellum Philadelphia. World Archaeological Congress 4, Capetown, South Africa.

- Patterned Behavior and Constructed Identities in the "Working Class" Worlds of Late 19th-Century Minneapolis, Minnesota. World Archaeological Congress 4, Capetown, South Africa.
- 1998 Coming to Terms: Cemetery Archaeology and African-American Communities. Third Cambridge Heritage Seminar, Cambridge University, Department of Archaeology, UK.
- Plates in Graves: An Africanism? Cemetery Archaeology Panel Discussion Commentary. Society for Historical Archaeology, Atlanta, GA
- The 17th-Century Friends' Meetinghouse at Burlington, New Jersey. Mid-Atlantic Archaeology Conference, Cape May, NJ.
- Survey in the City: Identifying and Evaluating Urban Archaeological Resources. Society for American Archaeology, Seattle, WA.
- 1997 Material Evidence of Irish-Immigrant/Irish-American Acculturation: Traditional Culture and the Archaeology of the Transition to the American "Middle Class". The Scattering, Ireland and the Irish Diaspora: A Comparative Perspective, National University of Ireland (University College), Cork.
- Seen But Not Heard: Human Remains Recovered at the Bridgehead Site, Minneapolis, Minnesota (senior author). The Midwest Bioarchaeology and Forensic Anthropology Association, Chicago, IL.
- On the Waterfront: The Water's-Edge Industrial Landscape of Duluth, Minnesota (co-author). Society for Industrial Archaeology, Houghton, MI.
- The Industrial Frontier at the Bridgehead Site, Minneapolis, Minnesota (senior author). Society for Industrial Archaeology, Houghton, MI.
- The Archaeology of 19th-Century Minneapolis' Working Class Worlds. Third Historical Archaeology Conference of the Upper Midwest, Red Wing, MN.
- African-Influenced Burial Practices in the Antebellum North: Community, Identity, and Social Resistance Expressed in the Cemeteries of the First African Baptist Church, Philadelphia, 1810-1841. 12th Annual Interdisciplinary Nineteenth-Century Studies Conference, *Death and Life*, University of California, Berkeley, CA.
- Sanitation Practices, Depositional Processes, and Interpretive Contexts of Minneapolis Privies (senior author). Society for Historical Archaeology, Corpus Christi, TX.
- 1996 Frontier University: First Season Excavations at the Original Site of Hamline University, Red Wing, Minnesota, 1856-1869 (co-author). Midwest Archaeological Conference, Beloit, WI.
- Animal Remains From Bridgehead: Perspectives on a Late 19th Century Neighborhood in Minneapolis, Minneapolis (co-author). Midwest Archaeological Conference, Beloit, WI.
- Archaeology on the Waterfront: An Overview of Research Issues. Shipwrecks of the Great Lakes Conference, Duluth, MN.
- A Survey of Underwater and Water's-Edge Cultural Resources at Duluth Harbor, Minnesota (co-author). Shipwrecks of the Great Lakes Conference, Duluth, MN.

- African-Influenced Burial Practices in the Antebellum North: Material Evidence of African Identity at Cemeteries of the First African Baptist Church, Philadelphia. The African Impact on the Material Culture of the Americas Conference, Winston-Salem, NC.
- Who Owns These Bones?: Descendant Community Rights and Partnerships in the Excavation and Analysis of Historic Cemetery Sites. National Council for Public History, Seattle, WA.
- Sanitation Practices and Depositional Processes in the Urban Archaeology of 19th Century Minneapolis. Council for Minnesota Archaeology Spring Symposium, Minnesota Academy of Science, St. Paul, MN.
- Using Geophysical Survey and Complementary Datasets to Enhance the Precision and Quality of Site Evaluation (co-author). Society for American Archaeology, New Orleans, LA.
- An Approach to the Archaeology of Rural Society and Economy. Second Historical Archaeology Conference of the Upper Midwest, Red Wing, MN.
- 1995 The Burlington, New Jersey 17th-Century Friends Meetinghouse. "Works-in-Progress" Meeting, Minnesota Chapter of the Society of Architectural Historians, Minneapolis, MN.
- The Archaeology of Farmsteads in the Upper Midwest: A Consideration of What and Why (senior author). Midwest Archaeological Conference, Beloit, WI.
- Depositional Analysis and Interpretive Context in Minneapolis Urban Archaeology: Just Whose Stuff Was This Anyway? (senior author). First Historical Archaeology Conference of the Upper Midwest, Red Wing, MN.
- The Hexagonal Friends' Meetinghouse at Burlington, New Jersey: Vernacular and Formal Origins of a 17th-Century Religious Structure. Vernacular Architecture Forum, Ottawa, ONT.
- Burial Practices at the Cemeteries of the First African Baptist Church, Philadelphia: Social Identity and Resistance in an Antebellum African-American Community. Radical Archaeological Theory Seminar (RATS! 95) Conference, Brown University, Providence, RI.
- Dock Creek in Colonial Philadelphia: Private and Public Approaches to an Urban Environmental Problem. Society for Historical Archaeology, Washington, DC.
- Living at Agricultural Hall: An Archaeological Perspective on 19th-Century Working Class Life in Gettysburg, PA (co-author). Society for Historical Archaeology, Washington, DC.
- 1994 A Consideration of Urban Archaeological Research in the Midwest with Particular Emphasis on the City of Minneapolis: or "Just What CAN We Learn by Digging in the City?" Joint Midwest/Southeast Archaeological Conference, Lexington, KY.
- A Perspective on Four Decades of Historical Archaeology in Philadelphia's Colonial Core (co-author). Mid-Atlantic Archaeological Conference, Ocean City, MD.
- Organizer and Panelist: Archaeology in the "Real World": Practice and Praxis in Cultural Resources Management. Radical Archaeological Theory Seminar (RATS! 94) Conference: From Theory to Practice, Binghamton University, Binghamton, NY.
- 1993 Material Culture and Performance: African-American Community, Ethnicity, and Agency in the Burial Practices at the First African Baptist Church Cemeteries, Philadelphia, 1810-1841. 34th Winterthur Conference, Material Culture: The Shape of the Field, Winterthur, DE.

- Burial Practices at the Cemeteries of the First African Baptist Church, Philadelphia: Social Identity in the African-American Community in the Early 19th Century, National Council for Public History, Valley Forge, PA.
- Archaeologists in Tyvek: Cultural Resources Investigations in Hazardous Materials Environments. Mid-Atlantic Archaeological Conference, Ocean City, MD.
- A Neighborhood Approach to the Urban Archaeology of Philadelphia (senior author). Society for Historical Archaeology, Kansas City, MO.
- 1992 Wither the Earthfast House: A Consideration of the Rise of the Brick Manor House in the Context of Social Differentiation on the Tobacco Coast in the Late 17th Century. Mid-Atlantic Archaeological Conference, Ocean City, MD.
- Organizer and Commentator: Competition or Complement? The Relationship Between Historians and Archaeologists. Society for Historical Archaeology, Kingston, Jamaica and the National Council for Public History, Columbia, SC.
- Comparative Archaeology and Osteology of the First African Baptist Church Cemeteries: Observations Concerning the Formation of Philadelphia's African-American Community in the Early 19th Century (senior-author). Society for Historical Archaeology, Kingston, Jamaica.
- 1991 Community, Household, and Privy: Interpretive Contexts of a 19th-Century Irish Neighborhood in Philadelphia (senior author). Council for Northeast Historical Archaeology, Newark, DE.
- The "Georgian" Manor house and the Tobacco Coast Planters: Thoughts on an Architectural Form and the Development of a Native Elite (senior author). Mid-Atlantic Archaeological Conference, Ocean City, MD.
- The Cemetery Under Vine Street: The 1810 First African Baptist Church Site, Philadelphia (co-author). Society for Historical Archaeology, Richmond, VA.
- 1990 Neighborhood Analysis in Urban Archaeology (co-author). Society for Historical Archaeology, Tucson, AZ.
- The Archaeology of the Formation of the Industrial Working Class in the 19th Century: Southeastern Pennsylvania (senior author). Mid-Atlantic Archaeological Conference, Ocean City, MD.
- African-American Acculturation as Reflected in the Cemeteries of the First African Baptist Church, Philadelphia: Population Dynamics and Social Stress in the Early 19th Century. Council for Northeast Historical Archaeology, Kingston, ONT.
- 1989 Artificial Landscapes: The Evaluation of Cultural Landforms at Addison Plantation, Oxon Hill, Maryland (co-author). First Joint Archaeological Congress, Baltimore, MD.
- Recent Archaeological Investigations of the Urban Working Class, Paterson, New Jersey (senior author). Council for Northeast Historical Archaeology, Morristown, NJ.
- 1988 Militia on the Potomac "Frontier": An Analysis of Flintlock Mechanisms Recovered From Colonel Thomas Addison's "Other" Store (co-author). Mid-Atlantic Archaeological Conference, Rehoboth Beach, DE.
- Piecing Together Colonel John's Pots: Ceramic Crossmends and Site Formation Processes at the Early Manor House at Addison Plantation, Oxon Hill, Maryland (co-author). Jamestown Conference on Archaeology, Pope's Creek, VA.

- 1987 *Farm, Craft, and Market: Archaeological Reflections of the Transformation of Rural Life in Southeastern Pennsylvania.* Society for Historical Archaeology, Savannah, GA.
- Excavations at the Addison Plantation Manor House(s): Oxon Hill, Maryland (senior author). Council for Northeast Historical Archaeology, St. Mary's City, MD.
- 1986 *Urban Archaeology and the Vine Street Expressway Project* (co-author). National Research Council, Transportation Research Board, Environmental Analysis in Transportation Committee, Philadelphia, PA.
- Plantation Households: Defining Foci of Domestic Activity at the Addison Plantation Site, Prince George's County, Maryland* (senior author). Eastern States Archaeological Federation, Wilmington, DE.
- 1985 *Archaeological Investigation of 17th-Century Philadelphia: Excavations at the Front and Dock Streets Site.* Society for Historical Archaeology, Boston, MA.
- Philadelphia Privies and Their Fills: A Consideration of Their Interpretative Value* (senior author). Mid-Atlantic Archaeological Conference, Rehoboth Beach, DE.
- Traces of Early Philadelphia: Scaled 17th-Century Contexts Recovered at the Front and Dock Site* (senior author). Council for Northeast Historical Archaeology, Ottawa, ONT.
- Family, Farm, and Market: Archaeology and the Transformation of the Rural Economy of Southeastern Pennsylvania* (senior author). American Anthropological Association, Washington, DC.
- 1984 *The Context of Baltimore: Social and Economic History in Archaeological Research.* Society for Historical Archaeology, Williamsburg, VA.
- Subsistence and Commodity in Colonial Pennsylvania: The Frontier and the Market Economy.* Mid-Atlantic Archaeological Conference, Rehoboth Beach, DE.
- Industry, Community, and Ideology: The Transformation of the Ideology of Industry in the Early 19th Century.* Fifth International Conference on the Conservation of the Industrial Heritage, Lowell and Cambridge, MA.
- 1983 *Digging the City: Urban Archaeology in the Era of Cultural Resources Management.* Mid-Atlantic Archaeological Conference, Rehoboth Beach, DE.
- 1982 *Artifact Distribution at "Roundabout" (18ST271): A Case for Plow-zone Archaeology.* Society for Historical Archaeology, Philadelphia, PA.
- Examining Socio-cultural Variation: An Approach to the Archaeology of Urban America.* Society for American Archaeology, Minneapolis, MN.
- 1981 *Salvage Archaeology in Baltimore: Providing the Data with Bulldozer and Trowel* (co-author). Society for Historical Archaeology, New Orleans, LA.
- 1980 *Data Recovery Excavations at the Federal Reserve Bank Site, Baltimore, Maryland.* Mid-Atlantic Archaeological Conference, Dover, DE.
- Differential Mortality and Status: Implications for Archaeology* (senior author). Society for American Archaeology, Philadelphia, PA.

An Unusual Loghouse Type: An Example of Above Ground Archaeology. Council for Northeast Historical Archaeology, Albany, NY.

- 1979 Discerning Patterns in the Urban Context: An Example from Philadelphia (co-author). Conference on Historic Sites Archaeology, St. Augustine, FL.
- 1978 An Approach to Archaeology in Secondary Schools. Society for Historical Archaeology, San Antonio, TX.
- 1976 Archaeology at the Colonial Pennsylvania Plantation: An Educational Outlook. American Folklore Society, Philadelphia, PA.

Awards/Grants

- 1997-96 Red Wing Area Fund and Hamline University, grants in support of public archaeology at the Original Hamline University Site, Red Wing, MN.
- 1995 Minnesota Humanities Commission, grant in support of the First Historical Archaeology Conference of the Upper Midwest.
- 1995 Scholar-In-Residence (Research and Study Residency), Anderson Center for Interdisciplinary Studies, Red Wing, MN.
- 1983 Graduate Tuition Fellowship, Anthropology Department, Temple University, Philadelphia, PA.
- 1982 Graduate Research Assistantship, Social Science Data Library, Temple University, Philadelphia, PA.
- 1981 Graduate Research Assistantship, Anthropology Department, Temple University, Philadelphia, PA.
- 1979 Phi Alpha Theta, National History Honor Society, Temple University, Philadelphia, PA.
- 1977 Summer Internship, National Trust for Historic Preservation, Oatlands Archaeology Project, Leesburg, VA.
- 1975 Studentship, National Trust For Historic Preservation, Work-Study Program (Field School) in Historical Archaeology and Museum Interpretation, Belle Grove, Middletown, VA.

Activities/Service

- 1998- Facilitator/Listowner, CfMA (internet discussion list), Council for Maryland Archaeology.
- 1997- Editor/Publisher, *African-American Archaeology*.
- 1997 Principal Investigator, Archaeological Survey, Gibbs Farm Museum, Ramsey County Historical Society, St. Paul, MN - donated services.
- 1997 Principal Investigator/Field Director, Test Excavations at the Murphy's Inn Site, Minnesota Valley Restoration Program (Murphy's Landing) - donated services.
- 1996-98 Co-Facilitator/Listowner, PUBLHIST (internet discussion list), Electronic Communications Committee, National Council for Public History.
- 1996-97 Transportation Committee, Consulting Engineers Council of Minnesota (Affiliate Member).
- 1996-97 Lead Instructor/Principal Investigator, Historic Archaeology and Public Archaeology Programming Field Schools at the original site of Hamline University (1856-69), Red Wing, Institute for Minnesota Archaeology.
- 1996 Reviewer, Preservation Technology and Training Grant Proposal, National Park Service.
- 1996 Undergraduate Honors Examining Committee, "Coffins and Gravestones as Indicators of Ethnicity in an Historic Finnish Cemetery", Anthropology Department, Hamline University, St. Paul, MN.
- 1995-98 Senior Research Fellow, Institute for Minnesota Archaeology, Minneapolis, MN.
- 1995-97 Technical Advisor, Archaeology Committee, Goodhue County Historical Society, Red Wing, MN.
- 1995-97 Organizer, Chair, and Proceedings Editor, Historical Archaeology Conference of the Upper Midwest (HACUM), Red Wing, MN.
- 1995-97 Historical Preservation Committee, Minnesota Valley Restoration Program (Murphy's Landing).
- 1995-96 *Ad Hoc* Internet Task Force, National Council for Public History.
- 1995-96 Advisory Committee, Gibbs Farm Museum Reinterpretation Project, Ramsey County Historical Society, St. Paul, MN.
- 1995-96 Midwest Regional/Contributing Editor, *African-American Archaeology*.

1994-95 Chairperson, Nominations Committee, Council for Maryland Archaeology.
 1993-94 Chairperson, Audit Committee, Pennsylvania Archaeological Council.
 1992-93 Manuscript Review, Maryland Historical and Cultural Publications Program (1 book).
 1991- Manuscript Review, *American Antiquity* (2 articles).
 1991-94 Chairperson, Compliance Assistance Committee, Pennsylvania Archaeological Council.
 1991-94 Outreach Committee, National Council for Public History.
 1991-93 Nominations Committee, Council for Maryland Archaeology.
 1990-91 Editorial Committee, *Abstracts in Maryland Archaeology*, Council for Maryland Archaeology.
 1989-90 Chairperson, Constitution Committee, Council for Maryland Archaeology.
 1988-91 Membership and Ethics Committee, Pennsylvania Archaeological Council.
 1987-90 Pennsylvania Regional Editor, Newsletter Editorial Board, Council for Northeast Historical Archaeology.
 1986-89 Curation Committee, Pennsylvania Archaeological Council.
 1985- Manuscript Review, *Historical Archaeology* (3 special issues, 8 articles).
 1985-86 Program Chairperson, Oliver Evans Chapter (SE PA), Society for Industrial Archaeology.
 1983-86 Commissioner, Delaware County (PA) Heritage Commission (appointed by County Council).

Affiliations

Archaeological Society of Maryland	Nineteenth-Century Studies Association
Archaeological Society of Virginia	Registry of Professional Archaeologists
Council for Maryland Archaeology	Society for American Archaeology
Council for Northeast Historical Archaeology	Society for Historical Archaeology
Friends (Quaker) Historical Association	Society for Industrial Archaeology
Middle Atlantic Archaeological Conference	Society for Pennsylvania Archaeology
National Council for Public History	Vernacular Architecture Forum
National Trust for Historic Preservation	Victorian Ceramics Group

Research Interests

Archaeological Expressions of Architectural Form	Mortuary Practices
Archaeological Method and Theory	Prehistoric and Historic Ceramic Technologies
Cultural Resources Management	Public Education/Professional Outreach
Cultural Transmission of Material Culture Form/Style	Settlement and Subsistence Systems
Domestic Economy and Consumer Behavior	The History of Archaeology
Farmsteads, Plantations, and Rural Society	The Militia and the Colonial Military
Fieldwork Health and Safety	Transportation Policy
Historic Academic and Applied Technologies	Urban Archaeology
Management/Business Practices in Cultural	Vernacular Architecture and Landscapes
Resources Management Consulting	Victorian Culture
Material Expressions of Class, Race, and Ethnicity	

JEANNE A. WARD
Principal Archaeologist/Manager

EDUCATION

- 1985 **M.A. IN ANTHROPOLOGY**, University of Tennessee, Knoxville, TN.
- 1978 **B.A. IN ANTHROPOLOGY**, University of Georgia, Athens, GA.
Cum Laude

CONTINUING EDUCATION, TRAINING, AND CERTIFICATION

- 1998 Register of Professional Archaeologists (RPA)
- 1997 Winning Proposals: How to Respond to a Request for Proposal, Minnesota Project Innovations, Inc.
- 1997 Introduction to Federal Projects and Historic Preservation Law (106 Training)
- 1996 Assessing the Archaeological Significance of Historical Sites, Corpus Christi, TX.
- 1995 Wetland Soils and Hydrology, Wetlands Training Institute, St. Paul, MN.
- 1994 Wetland Identification and Delineation, Learning Center of Applied Environmental Technology, Middletown PA.
- 1994 Advanced Plant Identification, Learning Center of Applied Environmental Technology, Middletown PA.
- 1994 Wetland Delineation Certification Refresher, Wetland Training Institute, Alexandria, VA.
- 1993 - 1995 Commonwealth of Pennsylvania Department of General Services, Women Business Enterprise
- 1992 - 1997 Society of Professional Archaeologists (SOPA), certified in Field Research and Historical Archaeology.

ARCHAEOLOGICAL FIELD EXPERIENCE AND EMPLOYMENT

- Current** APPLIED ARCHAEOLOGY AND HISTORY ASSOCIATES, Annapolis, MD.
- 1995 - 1998 SENIOR ARCHAEOLOGIST/HISTORIAN/WETLANDS SCIENTIST, IMA Consulting, Inc., Minneapolis, MN.
- 1994 - 1995 PRESIDENT, Jeanne A. Ward, Inc. Consultant, Stony Creek Mills, Reading, PA. Archaeologist and Cultural Resources.
- 1991 - 1993 ARCHAEOLOGIST AND CULTURAL RESOURCES CONSULTANT, in Private Practice, Stony Creek Mills, Reading, PA.
- 1989 - 1991 PROJECT ARCHAEOLOGIST, John Milner Associates, Inc., West Chester, PA.
- 1986 - 1989 ASSISTANT ARCHAEOLOGIST, John Milner Associates, Inc., West Chester, PA.
- 1989 FIELD ARCHAEOLOGIST, University of Florida, Gainesville, FL.
- 1984 - 1986 EDITORIAL ASSISTANT, Institute for Community and Area Development, University of Georgia, Athens, GA.

- 1982 - 1984 FIELD DIRECTOR, University of Florida, Gainesville, FL.
- 1982 - 1983 FIELD ARCHAEOLOGIST, Jeffrey Brown Institute of Archaeology, University of Tennessee, Chattanooga, TN.
- 1980 FIELD ARCHAEOLOGIST, Resource Analysts, Inc., Bloomington, IN.
- 1979 - 1981 LABORATORY TECHNICIAN, University of Tennessee, Knoxville, TN.
- 1979 FIELD DIRECTOR, Building Conservation Technology, Inc., Nashville, TN.
- 1979 FIELD ARCHAEOLOGIST, Soil Systems, Inc., Bloomington, IN.
- 1978 - 1979 FIELD ARCHAEOLOGIST, Institute of Archeology and Anthropology, University of South Carolina, Columbia, SC.
- 1977 - 1978 FIELD ARCHAEOLOGIST, University of Georgia, Athens, GA.

CULTURAL RESOURCES AND RESEARCH REPORTS

- 1999 *Archaeological Testing of the Proposed Fox Haven Development, 1820 North Howard Street, City of Alexandria, VA.* Report prepared for Meushaw Development Company, Alexandria, VA.
- A Phase I Cultural Resources Survey Of The Proposed Trade Center III Eagle's Landing Parkway, Henry County, Georgia. Report prepared for Champion Partners, Atlanta, GA.
- A Phase I Cultural Resource Survey of The Airline Road 115/25 kV Substation, Hart County, Georgia. Report prepared for Georgia Transmission Corporation, Marietta, GA.
- 1998 *A Phase I Archaeological Survey of the Chapel Hill Road 115/25 KV Substation.* Report prepared for Georgia Transmission Corporation, Marietta, GA.
- A Phase I Archaeological Survey of the proposed Veterans of Foreign Wars Property Prince George's County, Maryland.* Report prepared for the VFW, Bowie, Maryland
- An Archaeological Evaluation of The Murphy's Inn Site Shakopee, Scott County, Minnesota.* Report prepared for Minnesota Valley Restoration Project, Inc., Shakopee, Minnesota.
- Archaeological Investigations of a Portion of The Town of Kansas Archaeological Site (23JA422).* Institute for Minnesota Archaeology Reports of Investigations Number 528.
- The Stakeholder's Symposium, The Town of Kansas Urban Archaeological Park (23JA422: Block 2: Lots 11,12, and 13.* Institute for Minnesota Archaeology Reports of Investigations Number 527.
- Archaeological Investigations of and a National Register of Historic Places Nomination for the Illinois Iron Mine Site, Town of Freedom, Sauk County, Wisconsin.).* Institute for Minnesota Archaeology Reports of Investigations Number 510.
- Preemptive Archaeological Investigations and Archaeological Monitoring of the Praxair, Inc. Pipeline Corridor within the Town of Kansas Urban Archaeological Park (23JA422).* Institute for Minnesota Archaeology Reports of Investigations Number 501.
- Archaeological Investigations of The Wisconsin Heights Battlefield Site, 47DA57, Dane County Wisconsin.* Institute for Minnesota Archaeology Reports of Investigations Number 493.
- Archaeological Investigations of a Portion of The Town of Kansas Archaeological Site (23JA422): The African-American Occupation Area.* Institute for Minnesota Archaeology Reports of Investigations Number 486.

A Cultural Resources Investigations of Proposed Access Roads and Additional Archaeological Investigations of 20MK92: Great Lakes Gas Transmission Company Limited, Sault Looping Project, Mackinac County, Michigan. Institute for Minnesota Archaeology Reports of Investigations Number 484.

1997 *A Phase I Archaeological Investigation of Two Proposed Development Area Along CSAH 213 in Morrison County, Minnesota.* Institute for Minnesota Archaeology Reports of Investigations Number 481.

A Phase I Archaeological Survey of Township 48N, Range 11W, Section 33, SE1/4, SW ¼, The Village of Poplar, Douglas County, Wisconsin. Institute for Minnesota Archaeology Reports of Investigations Number 469.

A Cultural Resource Management Plan for the Rydell National Wildlife Refuge. Institute for Minnesota Archaeology Reports of Investigations Number 426.

A Cultural Resource Management Plan for the Hamden Slough National Wildlife Refuge. Institute for Minnesota Archaeology Reports of Investigations Number 427.

A Phase I Archaeological Survey of the Impact Area of a Proposed Well and Water Treatment Plant for The City of Independence, Trempealeau County, Wisconsin. Institute for Minnesota Archaeology Reports of Investigations Number 443.

A Phase I Archaeological Survey of the Proposed Edison Heritage Park and A National Register of Historic Places Nomination of the Appleton Paper and Pulp Company Mill, City of Appleton, Outagamie County, Wisconsin. (co-author) Institute for Minnesota Archaeology Reports of Investigations Number 446.

A Management Plan for the Town of Kansas Site Urban Archaeological Park, Kansas City, Missouri. Institute for Minnesota Archaeology Reports of Investigations Number 457.

1996 *An Archaeological Evaluation and Data Recovery Investigation at the New Federal Building/United States Courthouse, Minneapolis, Minnesota: Material Insights into Working Class Life in the Late 19th Century.* (co-author) Institute for Minnesota Archaeology Reports of Investigations Number 369.

A National Register Evaluation of Underwater and Water's-Edge Cultural Resources, Duluth Harbor, Minnesota. (senior author) With John McCarthy. Institute for Minnesota Archaeology Reports of Investigations Number 373.

A Phase I Archaeological Survey for the Northern Natural Gas Company 1996 Zone E-F Expansion Project, St. Michael Loop, Wright County, Minnesota. Additional Survey of Work Space and Staging Areas. Institute for Minnesota Archaeology Reports of Investigations Number 378.

A Phase I Archaeological Survey for the Northern Natural Gas Company 1996 Zone E-F Expansion, Princeton Loop, Mille Lacs and Sherburne Counties, Minnesota. Additional Survey of Work Spaces and an Access Road. Institute for Minnesota Archaeology Reports of Investigations Number 380.

A Phase I Archaeological Survey for the Northern Natural Gas Company 1996 Zone E-F Expansion, Elk River Loop I, Anoka County, Minnesota. Institute for Minnesota Archaeology Reports of Investigations Number 381.

A Phase I Archaeological Survey for the Proposed Northern Natural Gas Company 1996 Zone E-F Expansion, Paynesville/Watkins Tie Over, Sterns County, Minnesota. Additional Survey of Work Spaces. Institute for Minnesota Archaeology Reports of Investigations Number 382.

A Phase I Archaeological Survey of Selected Portions of the Northern Natural Gas Company 1996-1997 Rochester Branchline Rehab Project, Steele and Dodge Counties, Minnesota. Institute for Minnesota Archaeology Reports of Investigations Number 383.

A Phase I Archaeological Survey of a Six Acre Parcel for a New Subdivision in Bay City, Bay City, Pierce County, Wisconsin. Institute for Minnesota Archaeology Reports of Investigations Number 389.

An Archaeological Investigation of Portions of the Oak Point Intermediate School Property; The Rees Pottery Works Site (21He221) Eden Prairie, Hennepin County, Minnesota. Institute for Minnesota Archaeology Reports of Investigations Number 393.

Phase I, Phase II (20DE476) Deep Site Testing, MI Great Lakes. Institute for Minnesota Archaeology Reports of Investigations Number 399.

A Phase I Archaeological Survey of Great Lakes Gas Transmission Limited Partnership's Pipeline Recoating Project Sits PNW 95-215C and PNW 95-215JJ, Mileposts 500.95 to 501.17. Iron County, Michigan. Institute for Minnesota Archaeology Reports of Investigations Number 403.

A Phase I Cultural Resources Survey of Howard Lake Bypass 50th Street to 80th Street, Wright County, Minnesota. Institute for Minnesota Archaeology Reports of Investigations Number 412.

Archaeological Investigations at 32WA62 (The Aafedt Site), Walsh County, and 32PB95 (The Olafson Site) Pembina County, North Dakota. Institute for Minnesota Archaeology Reports of Investigations Number 413.

A Phase II Cultural Resources Evaluation of Historic Archaeological Site 32GF116, City of Grand Forks, Grand Forks County, North Dakota. Institute for Minnesota Archaeology Reports of Investigations Number 416.

1995 *A Management Summary Report for the Phase II Evaluation of Historic Archaeological Resources and Data Recovery Plan for Significant Historic Archaeological Resources, Old Trunk Highway 45 Reconstruction, Scanlon, Carlton County, Minnesota.* Institute for Minnesota Archaeology Reports of Investigations Number 368.

Archaeological Investigations at the Bridgehead Site, Minneapolis, Minnesota. Volume 1: The Industrial Sites, The Pacific Mill and The North Star Iron Works. Institute for Minnesota Archaeology Reports of Investigations Number 363.

Archaeological Investigations at the Bridgehead Site, Minneapolis, Minnesota. Volume 2: Site Area B, Residential and Commercial Occupations in the Vicinity of 1st Street North. Institute for Minnesota Archaeology Reports of Investigations Number 367.

A Phase I/II Cultural Resources Investigation of the Dam Tender's Site, Gull Lake, Cass County, Minnesota. Institute for Minnesota Archaeology Reports of Investigations Number 365.

An Archaeological Investigation of the Isaac Staples Mansion Site, Pioneer Park, Stillwater, Washington County, Minnesota. Institute for Minnesota Archaeology Reports of Investigations Number 361.

A Phase II Evaluation of Prehistoric and Historic Sites at an Upland Dredge Disposal Area of Navigation Pool 3, Diamond Bluff, Wisconsin. Institute for Minnesota Archaeology Reports of Investigations Number 353.

A Phase I Archaeological Survey of the Ledin/Wartman/School Property, Shorewood, Hennepin County, Minnesota. Institute for Minnesota Archaeology Reports of Investigations Number 351.

A Phase I Cultural Resources Survey of the Great Lakes Gas Transmission Limited Partnership, Marensico Side Tap, Gogebic County, Michigan. Institute for Minnesota Archaeology Reports of Investigations Number 341.

Small Scale Excavations at 32BI63: The de Mores Packing Plant Site, Medora, North Dakota. Institute for Minnesota Archaeology Reports of Investigations Number 339.

A Phase I Cultural Resources Survey of the Great Lakes Gas Transmission Limited Partnership, St. Clair River Crossing and Contractor Yard, St. Clair County, Michigan. Institute for Minnesota Archaeology Reports of Investigations Number 334.

A Reconnaissance Level Archaeological Survey of the Great Lakes Gas Transmission Limited Partnership, Saginaw County Loopline Replacement Project, Tract 20-19SA-138FEE, Saginaw County, Michigan. Institute for Minnesota Archaeology Reports of Investigations Number 326.

1994 *A Phase I Archaeological Survey of the Proposed Walmart Store Parcel, Ephrata Township, Lancaster County, Pennsylvania*(senior author). Report prepared for Advanced Engineering Group.

A Phase I Archaeological Survey, S.G. Souder Builders, Inc. Subdivision, Charlestown Township, Chester County, Pennsylvania. Report prepared for S.G. Souder Builders, Inc.

A Phase I Archaeological Survey of the Proposed Rolling Hills Estates II Subdivision, Centre and Tilden Townships, Berks County, Pennsylvania. Report prepared for Empire Construction.

A Phase I Archaeological Survey of the Proposed Seyval Sun Sewer Line, Adamstown Borough, Lancaster County, Pennsylvania (co-author). Report prepared for Stober Ltd.

A Phase I Archaeological Survey of the Nashville Sanitary Sewer Extension, Jackson Township, York County, Pennsylvania. Report prepared for C.S. Davidson, Inc.

A Phase I Archaeological Survey of the Proposed Walmart Development, East Lampeter Township, Lancaster County, Pennsylvania. Report prepared for Advanced Engineering Group.

A Phase I Archaeological Survey of Proposed Additions to the Carbon County Airport, Mahoning Township, Carbon County, Pennsylvania. Report prepared for Buchart-Horn, Inc.

A Phase I Archaeological Survey of Agricultural Hall, Borough of Gettysburg, Adams County, Pennsylvania. Report prepared for Adams County Housing Authority.

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A Phase I Archaeological Survey at the site of the Proposed Academic/Athletic Convocation and Events Center, The Pennsylvania State University, University Park, Centre County, Pennsylvania (senior author). Report prepared for HAAS/ROSSER FABRAP/BRINJAC KAMBIC (joint venture).

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- 1999 *Fort Mose: Colonial America's Black Fortress of Freedom.* Book review in the *African-American Archaeology Newsletter*, Number 23, Winter 1999.
- 1997 *Seeking Campsites Along the Red River Oxcart Trails in Eastern North Dakota.* Paper presented at the Third Annual Historic Archaeology Conference of the Upper Midwest, Red Wing, Minnesota.
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PROFESSIONAL MEMBERSHIPS

Society for Historical Archaeology
Society for Industrial Archeology
Council for Maryland Archaeology
Council for Northeast Historical Archaeology
The Archaeological Society of Maryland