Cultural Resources Report:

Cultural Resources Evaluation

DelDOT Contract No. 21-200-15

Delaware Technical and Community College

Terry Campus Improvements

City of Dover, Kent County, Delaware

November 2001

Prepared for:

Century Engineering, Inc.
4134 North DuPont Highway
Dover, Delaware 19901

Prepared by:

A.D. Marble & Company
919 Conestoga Road
Building 1, Suite 202
Rosemont, Pennsylvania 19010

CULTURAL RESOURCES EVALUATION

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Rosemont, Pennsylvania 19010

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ABSTRACT

A.D. Marble & Company conducted a cultural resources survey for the Delaware Technical and Community College Terry Campus Improvements, City of Dover, Kent County, Delaware, for the Delaware Technical and Community College during October 2001. The primary goal of this investigation was to locate and identify any existing and potential historic structures and/or prehistoric/historic archeological resources within the project area that would be affected by the proposed construction.

The proposed transportation improvements include the construction of 804.7 meters (2,640.0 ft) of new sidewalk/bicycle path along Scarborough Road and North DuPont Highway linking the existing sidewalks and bicycle paths on the DelTech Terry Campus to access, park and ride, and athletic facilities. The proposed project extends from the intersection of Denny's Road and North DuPont Highway and ends at the intersection of Scarborough Road and DelTech Road. Proposed improvements include a bituminous sidewalk, the planting of assorted shrubs and trees, the introduction of vinyl three-rail fence, the demolition and reconstruction of existing curbing, assorted sidewalk patching, and general surface landscaping improvements.

A research design based on current architectural and archaeological research in Delaware and the DelTech project area was implemented to provide a systematic study of the project Area of Potential Effect (APE). Results from background research into historic structures and known archeological sites were evaluated to ascertain whether or not cultural resources were present in the project area.

Recent construction of the Delaware Technical and Community College and Scarborough Road has adversely affected the integrity of the project APE. The presence of structures on historic maps and historic archaeological remains in the project area indicates that at one time the project APE was part of a bustling farm community. Prehistoric archaeological remains in the project area suggest that favorable environmental conditions lured local Native Americans to the locale as well. These structures and archaeological sites were destroyed or adversely impacted in the last quarter of the twentieth century as modern road improvements and the construction of the DelTech Terry Campus were brought into the project area.

Based on the proposed design for the transportation improvements, there will be no adverse effects to any historic properties or archaeological resources located within the Delaware Technical and Community College Terry Campus Improvements project. The project APE has low potential for yielding significant archaeological and/or architectural remains based on the impacted nature of the soils.

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1.0 INTRODUCTION

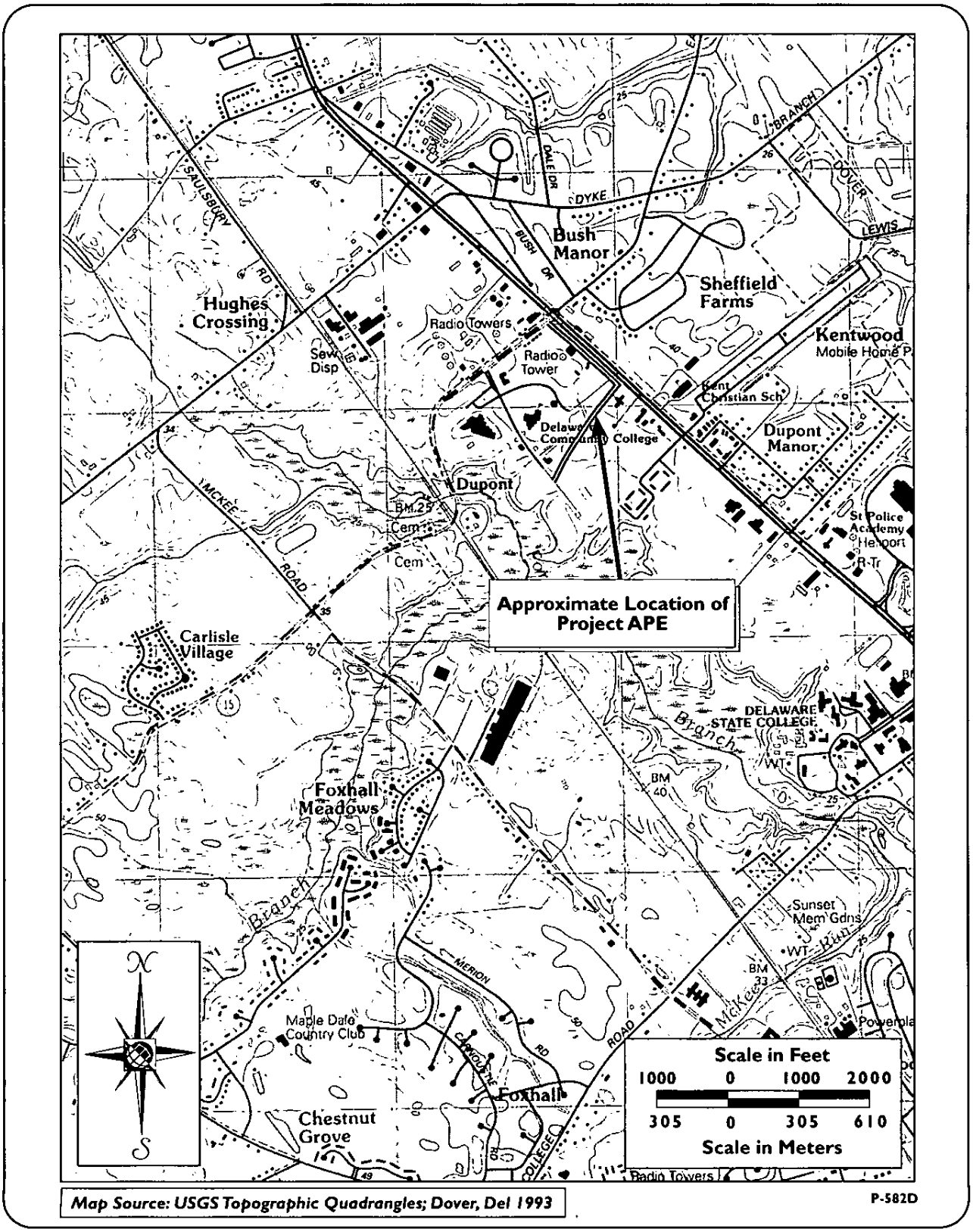
1.0 INTRODUCTION

This report presents the results of the Cultural Resources Evaluation for Delaware Department of Transportation (DelDOT) Contract No. 21-200-15, Delaware Technical and Community College Terry Campus Improvements, City of Dover, Kent County, Delaware.

The Area of Potential Effect (APE) consists of approximately 804.7 meters (2,640.0 ft) of new sidewalk/bicycle path along Scarborough Road and North DuPont Highway, linking the existing sidewalks and bicycle paths on DelTech Terry Campus to access facilities, park and ride lots, and athletic facilities. The proposed project extends from the eastern boundary of the DelTech Terry Campus at the intersection of Denny's Road and North DuPont Highway and ends at the intersection of Scarborough Road and DelTech Road (Figure 1). The proposed sidewalk consists of a 3.0-meter (10.0-ft) wide, 5.1-centimeter (2.0-in) thick bituminous path, overlying a 10.2-centimeter (4.0-in) thick bed of compacted aggregate. Other improvements include the planting of assorted shrubs and trees, the introduction of vinyl three-rail fence, the demolition and reconstruction of existing curbing, assorted sidewalk patching, and general surface landscaping improvements (Appendix A).

The purpose of this Cultural Resources Evaluation is to investigate the DelTech Terry Campus project area and determine if any known archaeological or architectural resources will be affected due to the proposed improvements. To accomplish this task, secondary and primary source materials regarding the prehistory and history of the project area were collected and analyzed, including Delaware Cultural Resource Survey (CRS) Inventory files and *National Register* files, historic maps and photographs, United States Department of Agriculture (USDA) soil survey data, and previously documented surveys of the project area. A windshield survey of architectural features was conducted in the project area, and an archaeological survey was limited to surface inspection. This investigation was conducted September 2001.

Figure 1
Project Location Map
Del Tech Terry Campus Improvements
City of Dover, Kent County, Delaware



2.0 SITE DESCRIPTION

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2.1 Environmental Setting

Various soil types are found throughout the proposed project area, including Woodstown Sandy Loam (Wo), Pocomoke Loam (Po), Sassafras Sandy Loam, 0 to 2 percent slopes (SaA), and Sassafras Sandy Loam, 2 to 5 percent slopes (SaB) (USDA 1970) (Figure 2).

Pocomoke loam soils are limited by their poor drainage, high acidity, and a high water table. Control of wetness is a problem, but there is little hazard for erosion. The Sassafras Series, on the other hand, is characterized as a well-drained soil, and it is very suitable for farming, though erosion is a hazard. Sassafras Sandy loam, 0 to 2 percent has very little limitations from farming. Sassafras Sandy loam, 2 to 5 percent is similar to the previous type, but has had several inches of it's original surface removed, and is one of the most productive soils in Delaware for farming. Woodstown sandy loam soils are not as ideal for farming. They are not as well drained and need constant management to produce crops (USDA 1970)

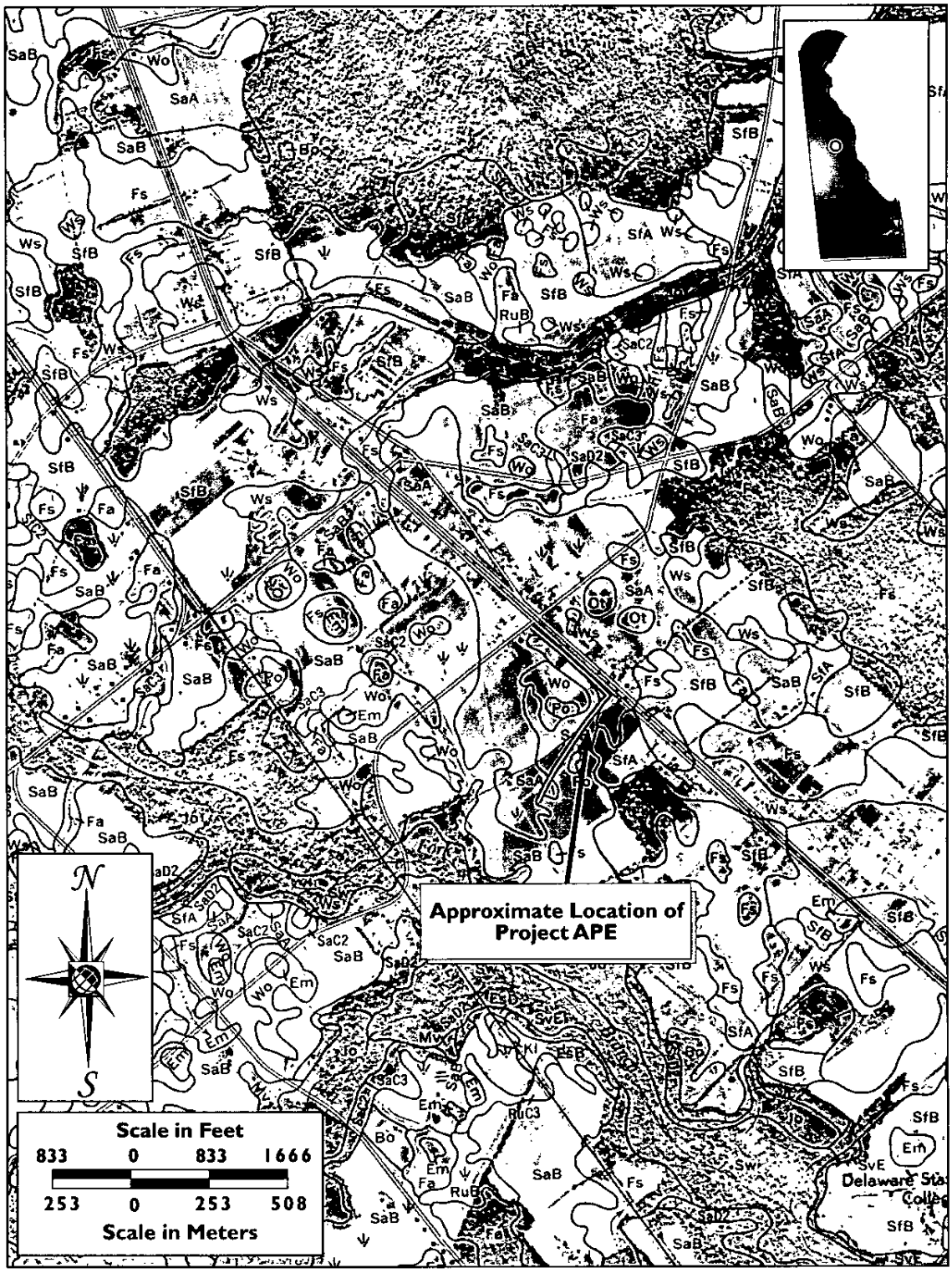
2.2 Land Use

The project area shows extensive evidence of urban usage. Above ground alterations such as streets, buildings, electric and phone line utilities and other evidence of modern improvements are found within and adjacent to the project APE along North DuPont Highway and Scarborough Road (Photographs 1 and 2). Landscape activities in the project area include a large ditch paralleling Scarborough Road, soil berms and decorative flower beds/plantings associated with the construction of DelTech Terry Campus (Photographs 3 and 4). It is evident that the APE has been impacted below ground by the construction of the adjacent college campus and Scarborough Road. The presence of sewer, electric, telephone, and water line outlets that provide service to the campus are found across the project APE (Photographs 5 and 6).

Figure 2
Project APE Soils Map

Del Tech Terry Campus Improvements

City of Dover, Kent County, Delaware



Map Source: USDA Soil Survey of Kent County, Delaware 1970

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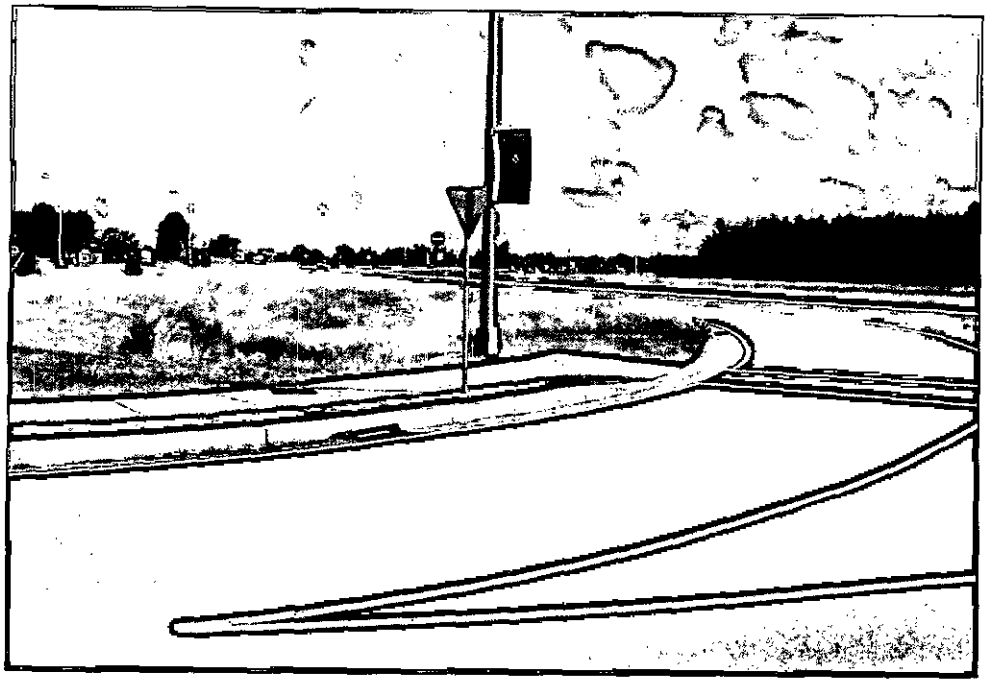
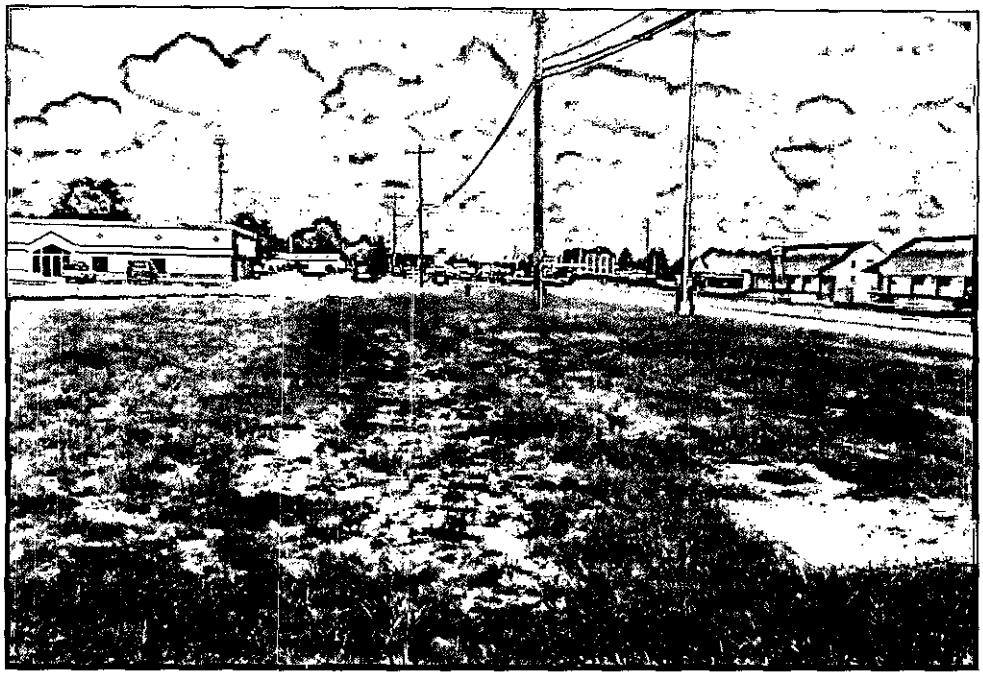
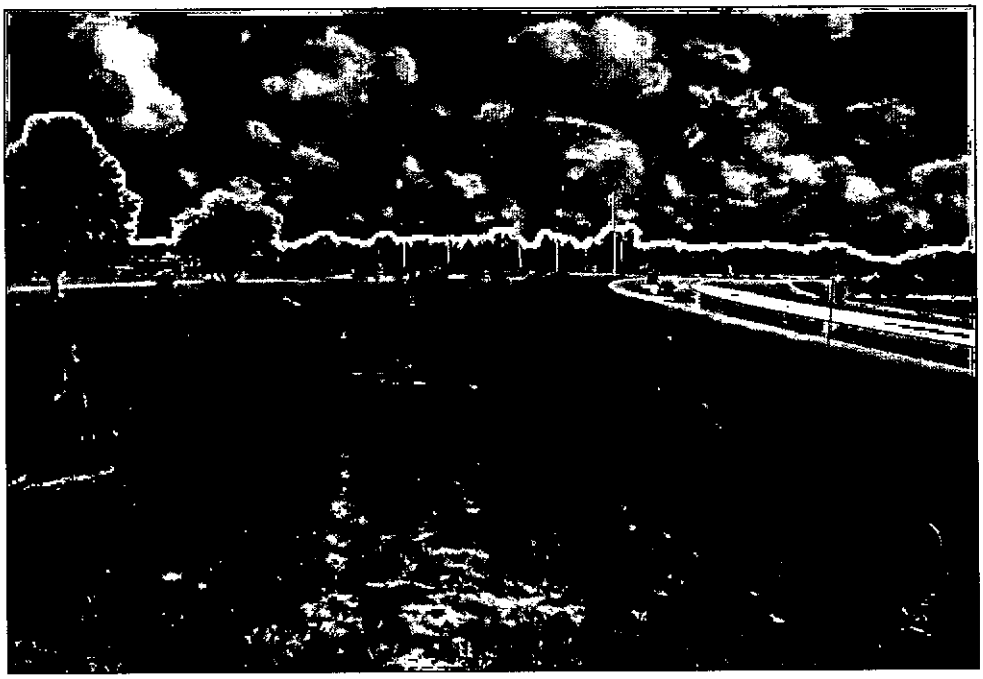


Photograph 1: Southern terminus of project APE at Del Tech Road, view looking north (September 2001).



Photograph 2: Project APE along southbound lane of DuPont Highway, view looking northwest (September 2001).



Photograph 3: Ditch (CRS #K-6488) from Simon's Savanna that is left of berm, and the right-of-way for Scarborough Road to the right of berm, view looking north (September 2001).

Photograph 4: Horticultural improvements and DelTech sign, southwest corner of DuPont Highway and Scarborough Road intersection, view looking north (September 2001).

Photograph 5: Benchmark and buried utility markers along Scarborough Road, view looking north (September 2001).

Photograph 6: Buried utilities along southbound DuPont Highway, south of Denny's Road intersection, view looking southeast (September 2001).

3.0 BACKGROUND RESEARCH

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A search through the CRS Inventory files was conducted at the Delaware State Historic Preservation Office (DESHPO). Background research consisted of examination of historical documents and maps, and archaeological records of the surrounding area, including the recent construction and planning of Scarborough Road. Any registered archaeological sites and/or historic structures in the immediate vicinity of the DelTech Terry Campus Improvements project were fully examined for temporal and spatial relationship to the project APE. Sites listed in the *National Register of Historic Places* within the project APE were also reviewed at DESHPO. No Sanborn maps were available for research.

The project area has a long history of use in an agricultural context. The agriculturally conducive soils and proximity to Fork Branch provided the optimal conditions for large-scale farming operations in the project area. By 1859, several large farmsteads dotted the surrounding project area, with one farm, listed as "M. Bowyer," within or adjacent to the project APE (Figure 3).

Agriculture practices continued to dominate the hinterlands of Dover through the last half of the nineteenth century and into the middle of the twentieth century (Figures 4-7). The project area maintained a rural atmosphere due to the lack of development and the demand for agricultural commodities. The post-World War II development brought a small number of commercial businesses along the heavily traveled DuPont Highway (U.S. Route 13) in the project area, but the area still retained its rural character. In 1972, the Delaware Technical and Community College Terry Campus was constructed, the second of four campuses for the Delaware Technical and Community College network (Delaware Technical and Community College Terry Campus Website accessed 10 October 2001). Scarborough Road, a four-lane road east of the project APE that connects North DuPont Highway to McKee Road, was constructed in 1995.

Several archaeological resources are noted within the study area. The DelTech Athletic Field Site (7K-C-388) is adjacent to the eastern edge of the project APE northeast of the DelTech Terry Campus buildings (Figure 8).

Figure 3
Byles Map of Kent County, 1859

Del Tech Terry Campus Improvements

City of Dover, Kent County, Delaware

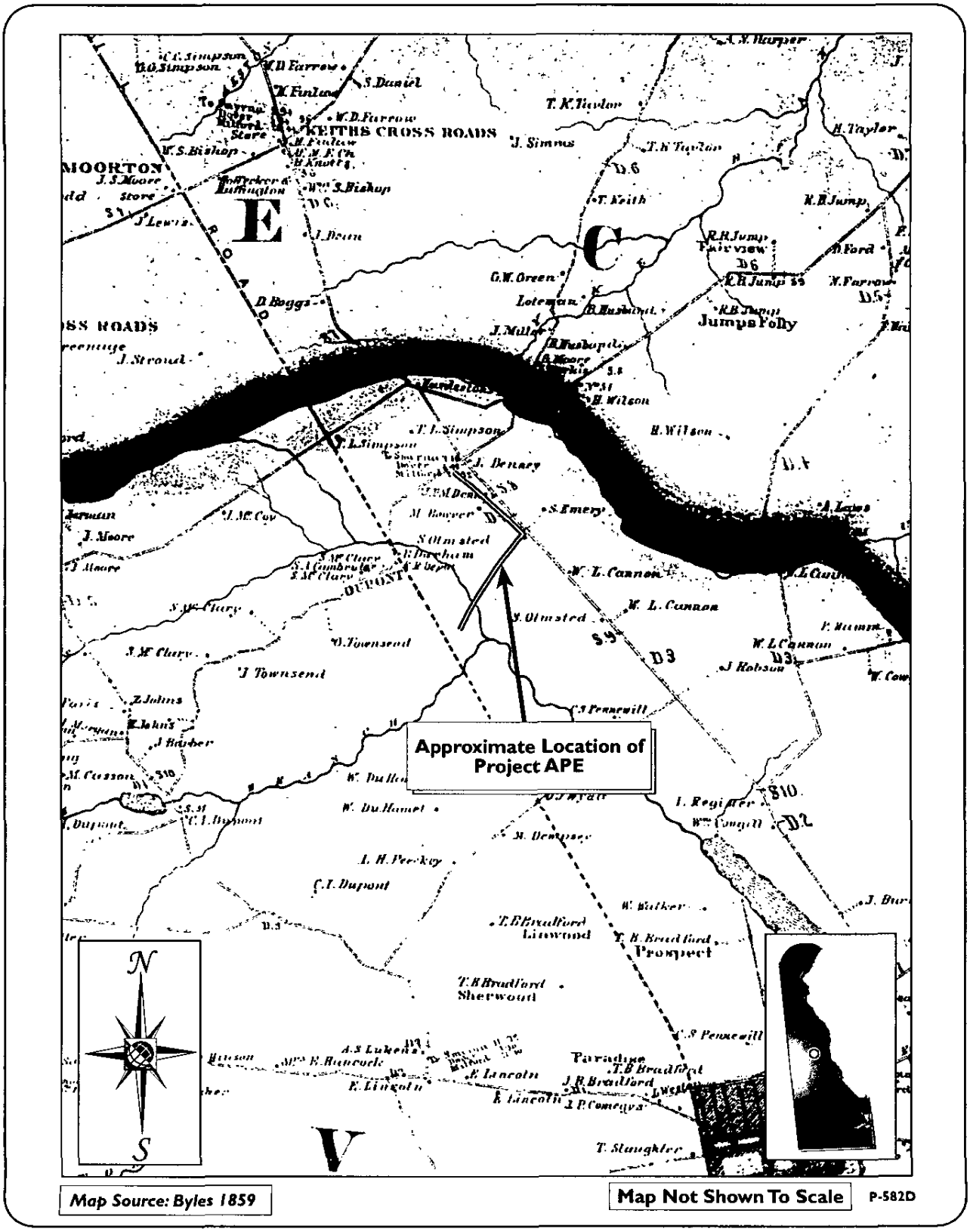


Figure 4
Beers Map of Dover Hundred, 1868

Del Tech Terry Campus Improvements

City of Dover, Kent County, Delaware

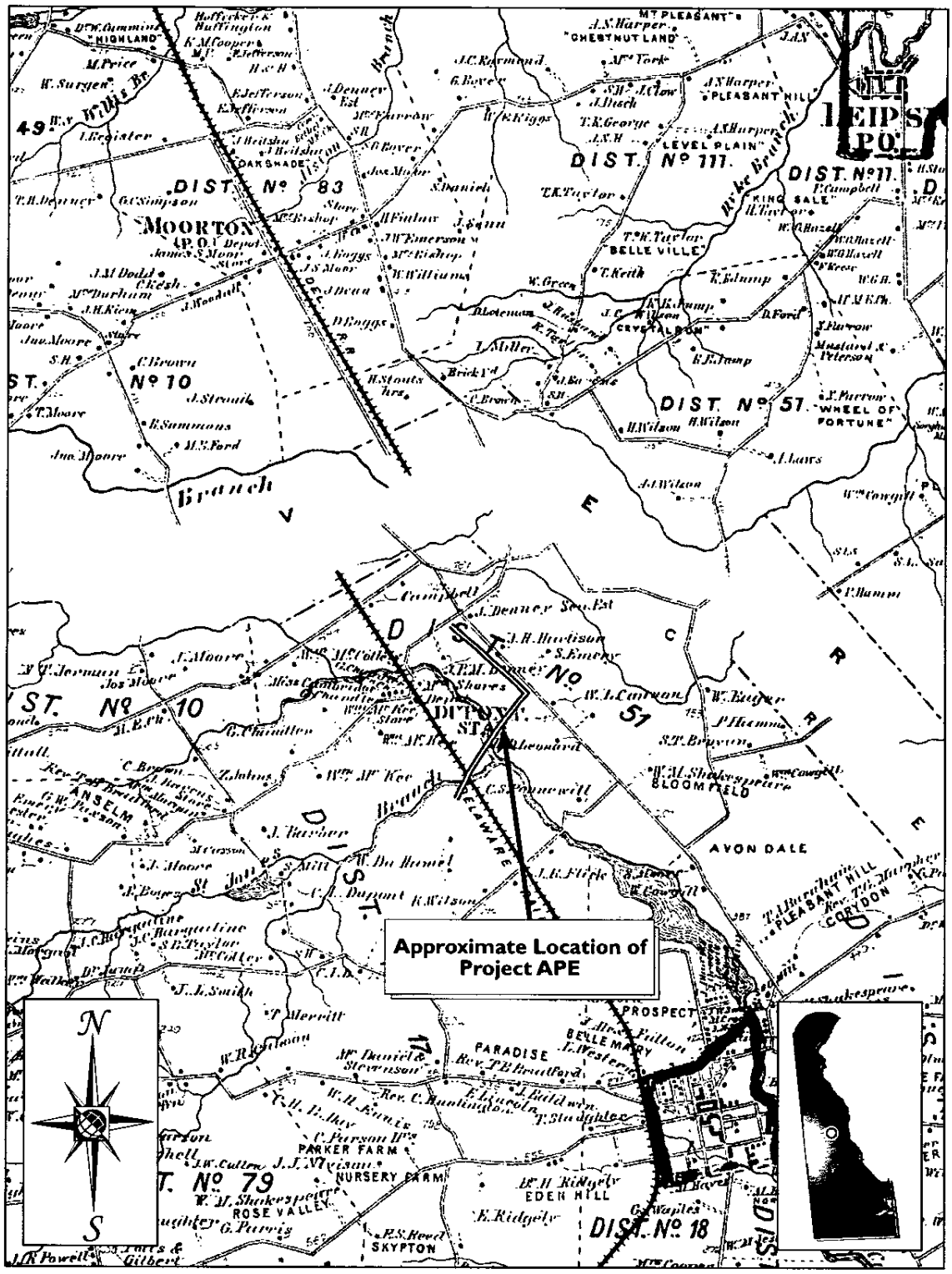


Figure 5
USGS Topographic Map of Dover, 1906

Del Tech Terry Campus Improvements

City of Dover, Kent County, Delaware

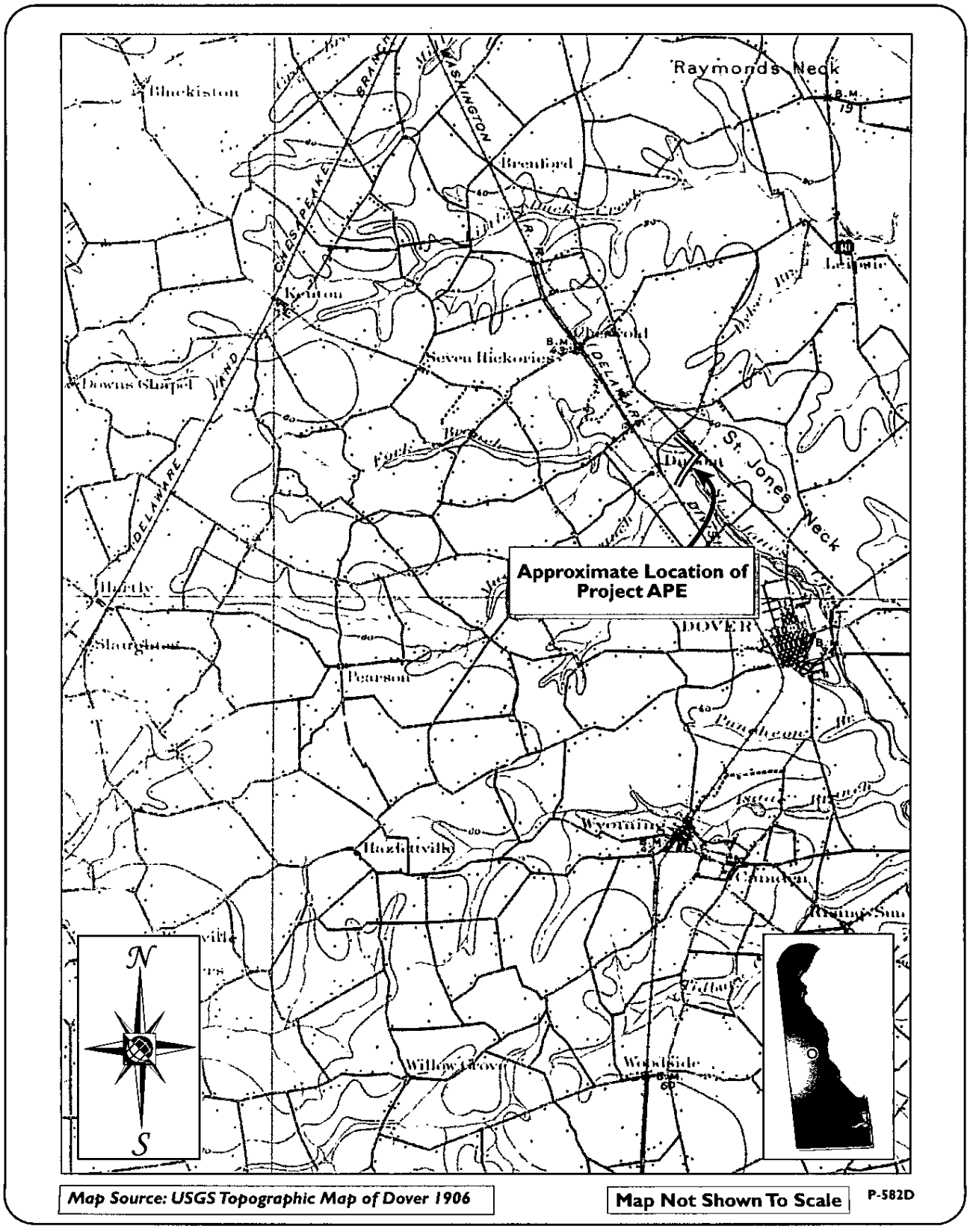


Figure 6
USGS Topographic Map of Dover, 1915
Del Tech Terry Campus Improvements
City of Dover, Kent County, Delaware

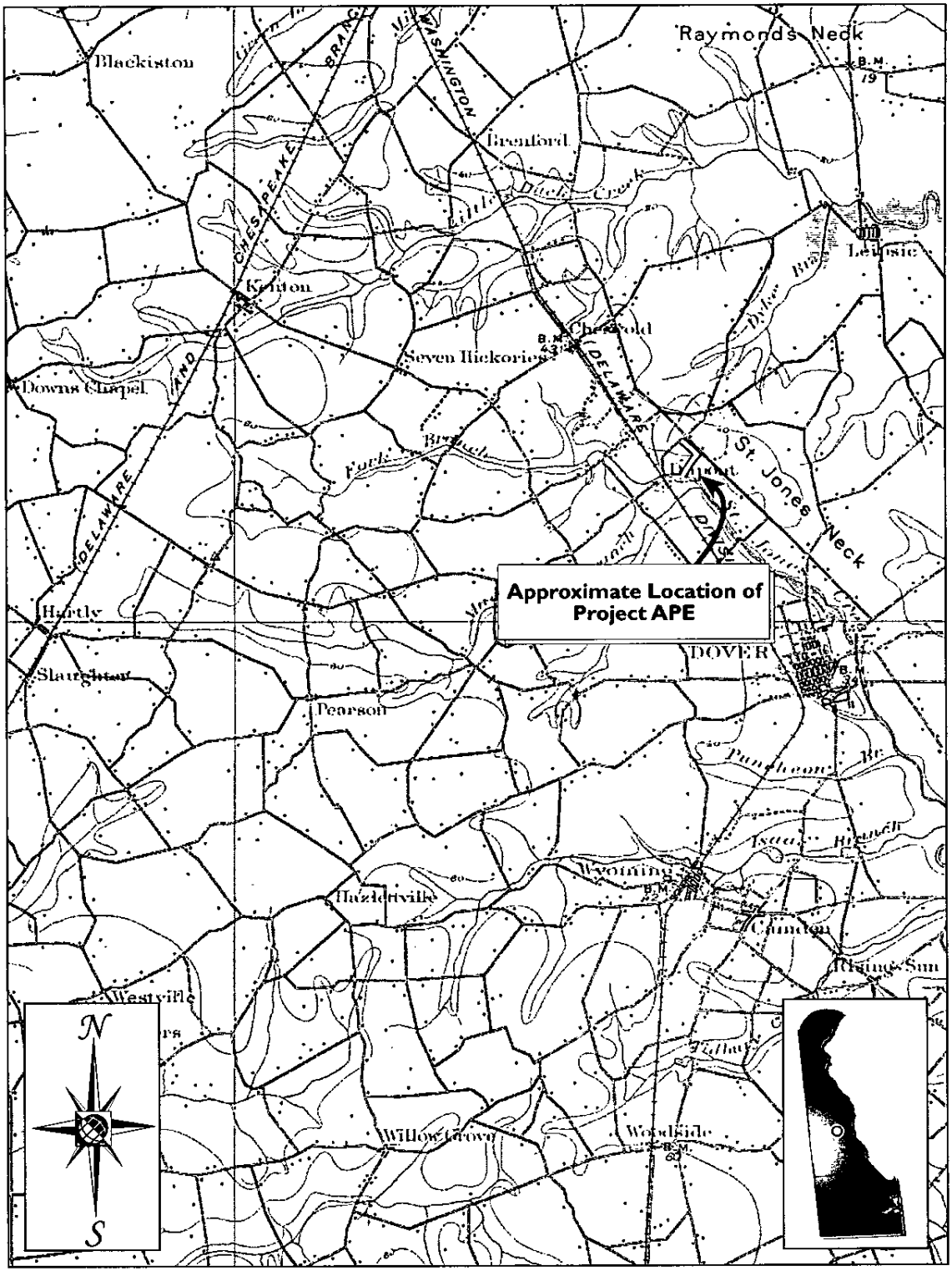
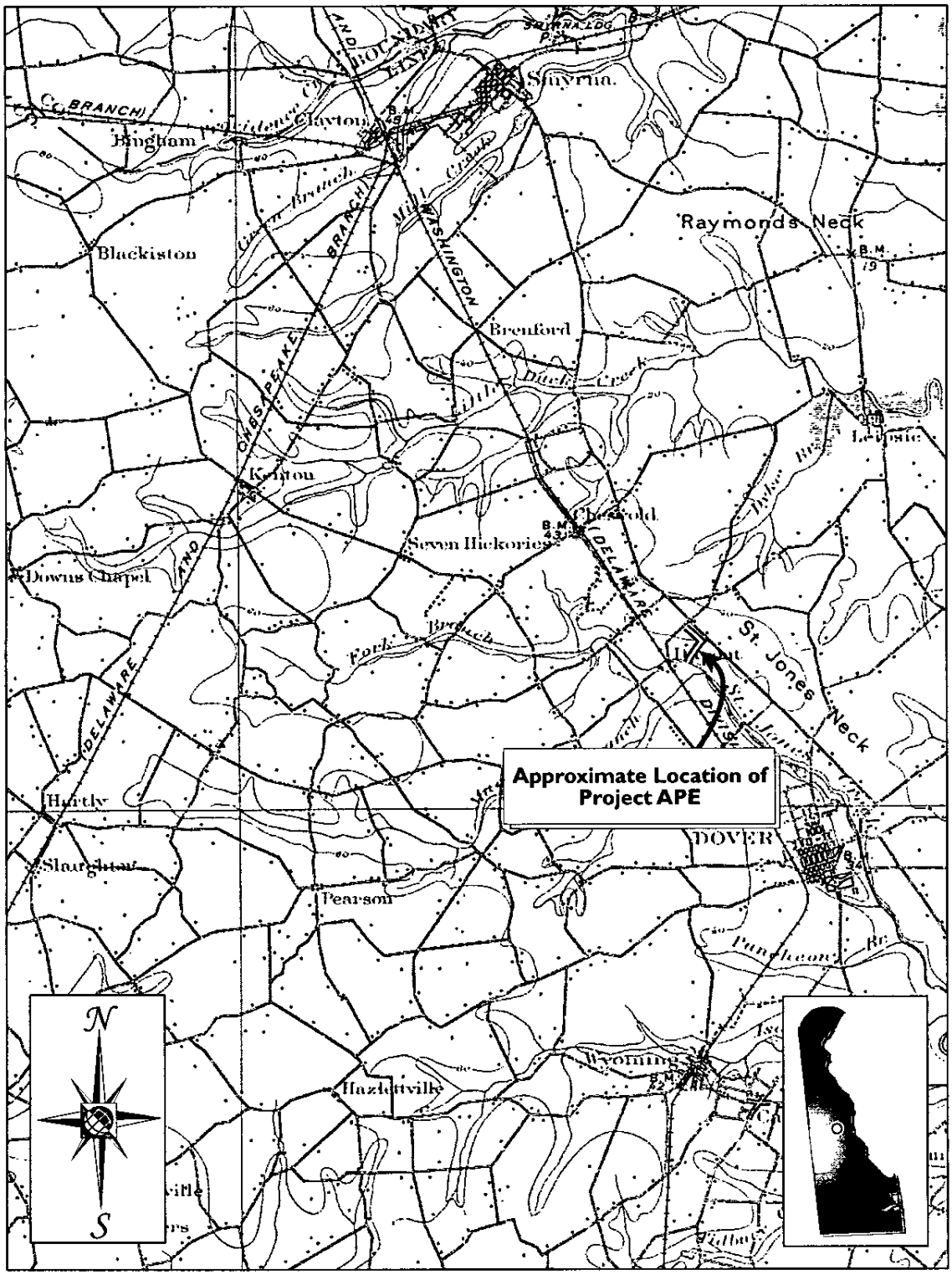


Figure 7
USGS Topographic Map of Dover, 1929

Del Tech Terry Campus Improvements

City of Dover, Kent County, Delaware



Map Source: USGS Topographic Map of Dover 1929

Map Not Shown To Scale

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Site 7K-C-388 consists of scattered historic artifacts associated with the Denney Farm, a nineteenth-century farmstead. This site has been graded and destroyed in the construction process of the Scarborough Road and the college (Heite and Blume 1992). The Boyer Toft Site (7K-C-392), located northeast of the DelTech Athletic Field Site along the western edge of the project APE, contained a scattering of artifacts associated with a known nineteenth-century toft, or homestead (DBAHP 1990: CRS #K-6489) (Figure 8). Simon's Savannah (7K-C-387), an Archaic site located on a sandy hill north of the DelTech Terry Campus buildings, is outside of the project APE (DBAHP 1990: CRS #K-6452) (Figure 8). One landscape feature to the west of the project APE, a manmade drainage ditch (CRS #K-6488) that extends from Simon's Savannah, is associated with an earlier historic (possibly eighteenth-century) occupation of the property (Photograph 3). Similar drainages have been found adjacent to nearby Denny's Road (Heite and Heite 1985:41).

4.0 ASSESSMENT OF POTENTIAL CULTURAL RESOURCE SENSITIVITY

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4.1 Archaeological Resources

There are several archaeological sites located in the proximity of the APE (Table 1). Two documented sites, the Boyer Toft Site (7K-C-392) and the DelTech Athletic Field Site (7K-C-388), are located adjacent to the project APE. These sites have been impacted or destroyed through construction efforts associated with Delaware Technical and Community College and Scarborough Road, and present low potential for containing intact cultural remains. The Ditch from Simon's Savannah (CRS #K-6488) is a manmade drainage feature associated with an earlier historic occupation of the property. The proposed improvements will avoid impacting this resource by utilizing the disturbed right-of-way for Scarborough Road and existing disturbed landscape features for the pathway footprint (Appendix A).

Table 1. DelTech Terry Campus Improvements Archaeological Resource Potential.

Block #	Streets	Resources	Archaeological Potential
--------	West side of Scarborough Road	Boyer Toft Site (7K-C-392)	Low potential for scattered historic artifact finds
--------	West side of Scarborough Road	Ditch from Simon's Savannah (CRS #K-6488)	Low potential

Source: Heite and Blume 1992; Delaware Bureau of Archaeology and Historic Preservation 1990.

Two areas were identified as possibly having a high potential for prehistoric archaeological deposits. These areas were identified in 1992, during the Heite Consulting Phase I survey, which was completed prior to the construction of Scarborough Road. One identified area located east of the project APE corresponds to the proximity of the DelTech Athletic Field Site (Heite and Heite 1992) (Figure 8). The construction of Scarborough Road and the DelTech Terry Campus has destroyed the site, but it is possible that ephemeral scatter associated with the site exists to the east side of the roadway and well outside of the project APE. An area on the inside of the 90-degree bend in the Simon's Savannah drainage ditch (CRS #K-6488) also has potential for yielding prehistoric cultural remains (Figure 8). Possibly related to nearby Simon's Savannah (7K-C-387), a stratified prehistoric site, this high probability area is also outside of the project APE (Heite and Blume 1992:4).

4.2 Architectural Resources

No structures currently are standing within the project APE. Structures that are adjacent to the APE were constructed in conjunction with the college campus and are not more than 35 years old. Therefore, these structures are not eligible for inclusion in the *National Register of Historic Places*. The documented historic structure closest to the project APE is located on the east side of the intersection of S.R. 0100 and the railroad tracks south of the DelTech Terry Campus (Figure 8). Surveyed by the Delaware Bureau of Archaeology and Historic Preservation (DBAHP) in 1979, this late-nineteenth century, two-story, ell-shaped frame house is not within the project APE (DBAHP 1981, CRS #K-1080).

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.0 CONCLUSIONS AND RECOMENDATIONS

This Cultural Resources Evaluation of the DelTech Terry Campus Improvements has assessed the cultural resource sensitivity of the project APE within the City of Dover, Delaware. The DelTech Terry Campus Improvements project APE has low potential to contain undocumented archaeological resources and low potential to contain significant architectural resources. Each resource will be discussed separately below.

5.1 Archaeology

While historic and prehistoric archaeological sites are found adjacent to the project APE, the improvements to North DuPont Highway, construction of Scarborough Road and the Delaware Technical and Community College Terry Campus, and the installation of buried utilities have compromised the integrity of the project APE soils. Any potential cultural remains within the project APE would be limited to disturbed, scattered artifact finds associated with surrounding sites. No intact cultural deposits are expected, given the significant disturbance from the campus and roadway activities.

5.2 Historic Architecture

There are no buildings or significant architectural resources located within the APE that would be compromised by the proposed construction of the DelTech Terry Campus Improvements. The Delaware Technical and Community College Terry Campus was constructed in 1972, and is not eligible for inclusion in the *National Register of Historic Places*.

In summary, the proposed improvements for the Delaware Technical and Community College Terry Campus Improvements will not impact any archaeological or architectural resources located within the project APE.

REFERENCES

References

Delaware Bureau of Archaeology and Historic Preservation

1990 *K-6489, Boyer Toft Site.* Cultural Resource Survey Archaeological Site File. On file at Delaware State Historic Preservation Office, Dover, DE.

1990 *K-6452, Simon's Savannah.* Cultural Resource Survey Archaeological Site File. On file at Delaware State Historic Preservation Office, Dover, DE.

1990 *K-6488, Ditch From Simon's Savannah.* Cultural Resource Survey Archaeological Site File. On file at Delaware State Historic Preservation Office, Dover, DE.

1981 *K-1080, House.* Cultural Resource Survey Archaeological Site File. On file at Delaware State Historic Preservation Office, Dover, DE.

Heite, Edward F. and Cara Lee Blume

1992 *Archaeological and Historical Discoveries in Connection with Scarborough Road, City of Dover, Delaware.* On file at Delaware State Historic Preservation Office, Dover, DE.

Heite, Louise B. and Edward F. Heite

1985 *Fork Branch/ Dupont Station Community: Archaeological Investigations on Denny's Road, Dover, Kent County, Delaware.* On file at Delaware State Historic Preservation Office, Dover, DE.

United States Department of Agriculture

1970 *Soil Survey of Kent County, Delaware.* United States Department of Agriculture, Washington, D.C.

United States Geographic Survey

1906 Dover, DE 7.5-Minute Topographic Quadrangle.

1915 Dover, DE 7.5-Minute Topographic Quadrangle.

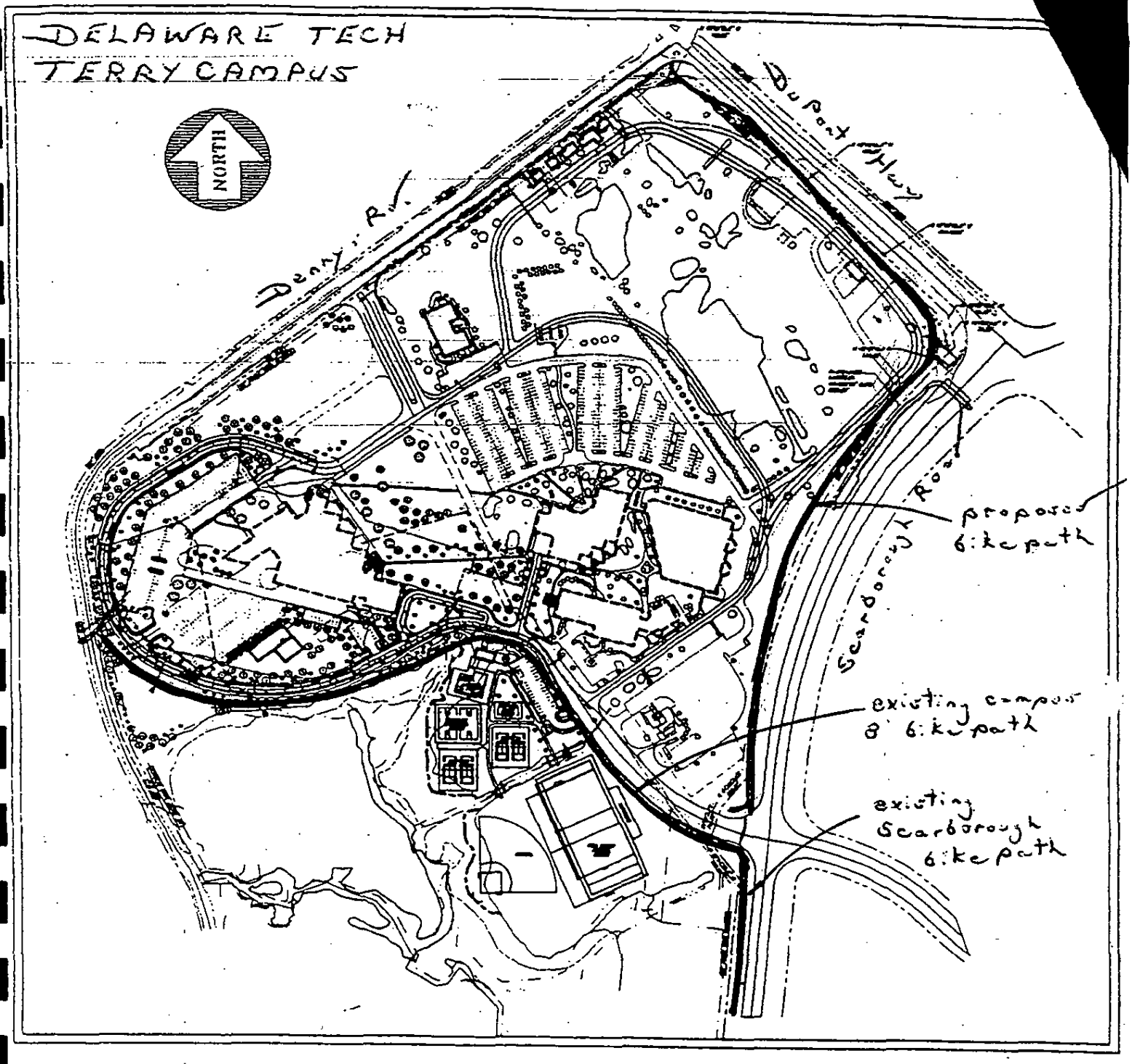
1927 Dover, DE 7.5-Minute Topographic Quadrangle.

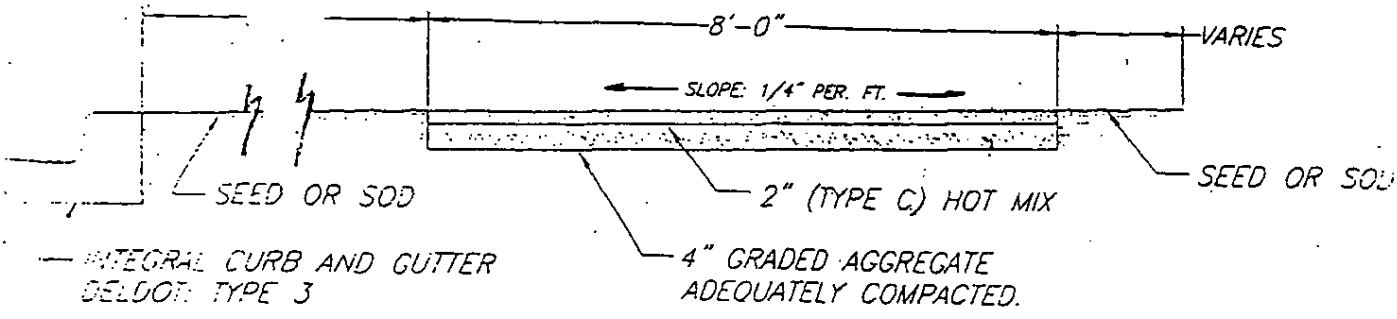
1993 Dover, DE 7.5-Minute Topographic Quadrangle.

World Wide Web

Delaware Technical and Community College Terry Campus Website. About Delaware Technical and Community College. 10 October 2001. http://www.dtcc.edu/about

APPENDIX A: PROPOSED IMPROVEMENTS FOR PROJECT AREAS





BIKE PATH AND CURB DETAIL

NO SCALE

APPENDIX B: QUALIFICATIONS OF RESEARCHERS

Amy K. Fanz
Field Director

Ms. Fanz has the experience and training to work on prehistoric and historic period archaeological sites. She has directed and supervised Phase I, II, and III site studies and conducted archaeological excavations throughout the Mid-Atlantic and Southeast regions of the United States. Ms. Fanz has directed a variety of projects for different clientele, including pipeline realignments, military base, highway planning, construction, and expansion. She has also presented papers at professional meetings and conferences, as well as developed programs for public outreach. She is experienced in lithic analysis and ethnobotany.

Education

1988 B.A. Anthropology, University of Denver

Scott A. Emory
Maritime Archaeologist/Principal Investigator

Mr. Emory has the experience and training to work on prehistoric and historic archaeological sites, as well as underwater archaeological sites. He has directed and supervised Phase I, II, and III site studies and conducted archaeological excavations throughout New Jersey, Delaware, Pennsylvania, Virginia, and Maryland, and Bermuda. Mr. Emory has directed bridge replacement projects, shipyard documentation and investigation, highway planning, construction, and expansion, shipwreck investigations, and wetland mitigation. He is fully experienced with underwater archaeological documentation procedures and is certified by the American Academy of Underwater Sciences. While trained as an underwater archaeologist, Mr. Emory is also experienced with historic ceramic analysis.

Education

2000 M.A., Maritime History and Nautical Archaeology, East Carolina University
1991 B.A., Anthropology, University of Delaware

Prepared by:

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