Edited Version – See Disclaimer

DRAFT PHASE I ARCHAEOLOIGCAL SURVEY REPORT
SR 52 and SR 82 INTERSECTION IMPROVEMENT

Prepared for:

United States Department of Transportation
Federal Highway Administration
300 South New Street, Suite 2102
Dover, DE 19904

Prepared by:

David S. Clarke and Kevin Cunningham
Delaware Department of Transportation
P. O. Box 778 Dover, Delaware 19903

September 2010

Delaware Division of Historical and Cultural Affairs
State Historic Preservation Office
21 The Green
Dover, DE 19901
302-736-7400
302-739-5660 (fax)

Archaeological Survey Report Form

(For use when NO archaeological sites were identified; see *Guidelines and Instructions*.)

1. Report title: Phase I Archaeological Survey Report SR 52 and 82 Intersection Improvement

2. Date: 8/31/2010

3. Author(s): David S. Clarke and Kevin W. Cunningham

4. Consulting firm name and address: NA

5. Client agency: Delaware Department of Transportation

LOCATION

6. County (check as many as apply): ☒ **New Castle** ☐ **Kent** ☐ **Sussex**

7. Nearest town(s): Montchanin

8. Physiographic and geographic zone(s): Piedmont and Fall Line and Piedmont

PROJECT DESCRIPTION

9. Dates of fieldwork: 4/15/2010 and 5/4/2010

10. Size of area covered: unit used: ☒ **acres** ☐ **hectares**
project area: 4.70 **surveyed area**:

11. Project description (describe location and nature of project): The Delaware Department of transportation (DelDOT) is proposing to make improvements to Kennett Pike (State Route 52) at the intersection with Campbell and Kirk Roads (SR 82). The roadway will be widened and realigned to extend existing turning lanes and accommodate dedicated bike lanes. The project will enhance safety at the intersection for bicycles and motor vehicles. Utility adjustments and new striping and signing are also expected. The goals of the project are to realign the existing roadway,

improve operational efficiencies, improve safety, and enhance the existing bicycle movements. More information regarding traffic safety and needs of the project can be seen at http://www.deldot.gov/information/projects/rt52_rt82/. This is a federally funded project thus the need for Section 106 compliance. The Area of Potential Effect (APE), is situated on or directly adjacent to the road way, topographically sloping down from the North of the project limits, the highest point on the project, to the southern limits of the project. Land use / cover in the South West corner of the intersection consist of farms, pastures, cropland. The other three corners of the intersection have a land use / cover of single family dwelings, and mixed forest. Soil types consits of Gleneleg loam, and Glenville silt loam. Vegitation consist of native and nonnative grasses along with mixed forest. The APE is largly disturbed due to the existing roads. The only undisturbed "testable" area within the APE, is situated adjacent in the North East corner of the intersection where project staging and stockpiling will occur.

RESEARCH DESIGN

12. **Survey objectives:** To determine the presence or absence of any Archaeological sites within the APE.

13. **Survey methods (describe both field and background research methods):** Prior to fieldwork, backgound research commenced at both DelDOT and DHCA to determine the archaeological potential of the APE. Background research consisted of researching, historic maps, aerial photographs, CRM reports, NHRP files, DHCA site files, and historic / prehistoric contexts. After multiply vehicle and pedestrian surveys of the APE, only the staging and stockpile location was determiend to have any Archaeological potential, the rest of the project was disturbed roadside locations. Fieldwork consisted of 12 shovel test pits (STP) between 50 and 60 cm in diameter spaced between 10 and 15 meters apart. STP's were were dug at least 10 cm into culturally sterile soil, below the A/B horizon interface, and screened through 0.25 inch mesh hardware cloth. Photographs were taken of the areas and example STP's. Data regarding soil texture, color, depth of any cultural materials, and any soil disturbance was recorded on DelDOT excavation forms.

14. **Expected site types for this area (cite earlier surveys & known nearby resources, information from historic maps or research):** Based on the background research there was a moderate potential for Prehistoric Archaeological sites to be found in the APE. This is due to environmental factors such as proximity to Red Clay and Brandywine Creeks. Based on the background research there was a moderate potential for Historic Archaeological sites due to known Historic Architectural structues witin the APE see table h.

RESULTS and RECOMMENDATIONS

15. **Fieldwork (describe survey; add maps as needed):** See attachments C and F

16. **Artifacts (describe any found; identify location; explain why determined not to be a site):** N/A

17. **Recommendations:** No Archaeological sites were identified, and thus no additional archaeological work is recommended.

ATTACHMENTS

18. **Attachments checklist:**
    - a. ☒ **bibliography**
    - b. ☒ **location map (USGS or equivalent)**
    - c. ☒ **detailed map(s) (project plans and/or field survey map)**
    - d. ☒ **historic map(s) (list)** 1868 Beers, 1893 Baist, 1937 and 1954 Aerails
    - e. ☒ **photographs of general project/surveyed area**
    - f. ☒ **table of collection units and/or excavated tests**
    - g. ☒ **soils map(s)**

    Others (list, if any): h. Table of cultural resources wihtin 0.5 miles of the APE

Attachments

A. Bibliography

Ames, David L., Mary Helen Callahan, Bernard L. Herman, and Rebecca J. Siders
1989 *Delaware Comprehensive Historic Preservation Plan*. Newark, DE: Center for Historic Architecture and Engineering, University of Delaware.

Beers, D.G.
1868 *Atlas of the State of Delaware*. Pomeroy & Beers, Philadelphia.

Custer, Jay F.
1986 *A Management Plan for Delaware's Prehistoric Cultural Resources*. University of

Delaware Center for Archaeological Research, Monograph No.2. Newark, Delaware.
1989 *Prehistoric Cultures of the Delmarva Peninsula: An Archaeological Study*. Cranbury, New Jersey: Associated University Presses, Inc.

DeCunzo, Lu Ann
2004 *A Historical Archaeology of Delaware*. University of Tennessee Press, Knoxville, TN.

DeCunzo, Lu Ann, and Wade P. Catts
1990 *Management Plan for Delaware's Historical Archaeological Resources*. University of Delaware Center for Archaeological Research, Newark, De.

Delaware Cultural & Historical Resource Information System (CHRIS)
2007 Aerial Photography with currently available CRS data http://chris.delaware.gov, accessed June 2010.

Delaware Geological Survey (DGS)
1937 Aerial Photography. www.datamil.delaware.gov, accessed June 2010.
1954 Aerial Photography. www.datamil.delaware.gov, accessed June 2010.
2009 Quadrangle Map. www.datamil.delaware.gov, accessed June 2010.
2009 Site Location Map. www.datamil.delaware.gov, accessed June 2010.

Google Earth
2010 Arial Photography. www.earth.google.com, accessed June 2010.

Hahn, Michael C., and Jon Schmidt
2010 *Register Eligibility Status and Evaluation for Properties at the Intersection of Kennett Pike (SR 52) and Campbell and Kirk Roads (SR 82)In association with a project undertaking under DelDOT State Contract Number 28-007-01 and Federal Number ESTP-N009(7).*Report prepared by the Delaware Department of Transportation.

Natural Resources Conservation Service
2009 Web soil survey. http://websoilsurvey.nrcs.usda.gov/app/, accessed June 2010.

F. Table of Results

SHOVEL TEST FORM

PROJECT NAME SR 52 / 82 PROJECT NUMBER 28-007-01

DATE 4/15/10 STP NUMBER 1

N 39.78936 N 75.60320

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	36	Clay Loam	7.5 YR 3/1	Coal discard
36	47	Clay Loam and Rock	7.5 YR 3/1	NCM

STP NUMBER 2

N 39.78930 N 75.60319

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	41	Clay Loam	7.5 YR 3/1	NCM
41	57	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

STP NUMBER 3

N 39.78294 N 75.60317

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	30	Clay Loam	7.5 YR 3/1	NCM

30	60	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

STP NUMBER 4

N 39.78915 **N 75.60334**

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	27	Clay Loam	7.5 YR 3/1	NCM
27	40	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

STP NUMBER 5

N 39.78920 **W 75.60335**

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	31	Clay Loam	7.5 YR 3/1	NCM
31	51	Clay and Rock	7.5 YR 3/1 Mottled 10 YR 5/8	NCM

STP NUMBER 6

N 39.78927 **W 75.60336**

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	37	Clay Loam	7.5 YR 3/1	NCM
37	58	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

DATE 5/4/10

STP NUMBER 7

N 39.78940 **W 75.60350**

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	37	Clay Loam	7.5 YR 3/1	NCM
37	60	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

STP NUMBER 8

N 39.78921 **W 75.60349**

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	40	Clay Loam	7.5 YR 3/1	NCM
40	60	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

STP NUMBER 9

N 39.78921 W 75.60347

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	38	Clay Loam	7.5 YR 3/1	NCM
38	58	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

STP NUMBER 10

N 39.78916 W 75.60366

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	25	Clay Loam	7.5 YR 3/1	NCM
25	45	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

STP NUMBER 11

N 39.78924 W 75.60368

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	30	Clay Loam	7.5 YR 3/1	NCM
30	50	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

STP NUMBER 12

N 39.78932 **W 75.60370**

DEPTH		SOIL	MUNSELL	CULTURAL
BEGIN	**END**	**CLASSIFICATION**	**COLOR**	**MATERIAL**
0	33	Clay Loam	7.5 YR 3/1	NCM
33	45	Clay	10 YR 6/2 Mottled 10 YR 5/8	NCM

G. **Soil Survey Map**

New Castle County, Delaware (DE003)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
GeB	Glenelg loam, 3 to 8 percent slopes	28.8	47.6%
GeC	Glenelg loam, 8 to 15 percent slopes	6.3	10.5%
GnA	Glenville silt loam, 0 to 3 percent slopes	3.5	5.8%
GnB	Glenville silt loam, 3 to 8 percent slopes	18.8	31.0%
Hw	Hatboro-Codorus complex, 0 to 3 percent slopes, frequently flooded	3.1	5.1%
Totals for Area of Interest		**60.5**	**100.0%**

H. Cultural resources within a ½ mile of the project APE

CRS # New Castle	Description
N00531	Weymouth State House earliest portion 1740
N00513	Campbell Stable 1901
N00514	Campbell Carriage House mid to late 1700's
N00535	Chevannes du Pont Estate 1927
N00533	Evelina du Pont House "Lyndham" 1895 Mansion
N00534	Evelina du Pont House "Lyndham" 1895 Tenant House
N14457	Billings-Reese House 1959-1961
N06276	White Village 1849, 1893, 1923
N11103	Residential Development 1954, 1955, 1962,
N01257	Christ Church 1856
N07679	"Windbeam" F.W. Pickard estate 1927
N01413	No file
N09556	No file