

Addendum to Maryland Historical Trust Maryland Inventory of Historic Properties Form

Inventory No. M: 29-52-5

Page 1 of 1

Name of Property: Building 152, Civilian Quarters

Location: Naval Support Facility Carderock, Maryland

Building 152, Civilian Quarters

Building 152 was surveyed and documented in 2010 as part of the 2011 update to the Integrated Cultural Resource Management Plan for the Naval Support Facility (NSF) Carderock, formerly known as the Naval Surface Warfare Center Carderock Division (NSWCCD). In 2010 the building underwent renovations to the interior; however, no changes have been made to the exterior of the building since it was first recorded on an MIHP form in 2003.

Form Prepared by

name/title	Patti Kuhn, Architectural Historian		
organization	The Louis Berger Group	date	11/24/2010
street & number	1250 23rd Street, NW	telephone	202-303-2665
city or town	Washington	state	DC



Location Inset

0 1,000 2,000 Feet

Building 152

83

82

81

80

152

8

137

160

TM

30

40

121

T20

32

10

5

6

104

T19

116

100

113

112

187

182

T10

T3

T8

T16

T17

157

13

12

88

71

138

63

80

119

22

4W

4

143

1

14

2

3

T22

185

136

16

Structures
Historic District

100 0 100 Feet

Naval Support Facility, Carderock
NSWCCD Historic District (MIHP No. M:29-52) 5

Building Number 152



152

JP 801-229-9206

JP

M: 29-52-5

NSWCCD HISTORIC DISTRICT (NSF CARDEROCK)
BLDG 152. CIVILIAN QUARTERS

MONTGOMERY COUNTY, MD

LOUIS BERGER GROUP

4/2010

MDSHPO

SOUTHWEST ELEVATION, LOOKING NORTHEAST

PHOTO 1 OF 3



M: 29-52-5

NSWCCD HISTORIC DISTRICT (NSF CARDEROCK)

BLDG 152. CIVILIAN QUARTERS

MONTGOMERY COUNTY, MD

LOUIS BERGER GROUP

4/2010

MDSHPD

SOUTHEAST ELEVATION, LOOKING NORTHWEST

PHOTO 2 OF 3



M: 29-52-5

NSWCCD HISTORIC DISTRICT (NSFCARDEKUC)

BLDG 152. CIVILIAN QUARTERS

MONTGOMERY COUNTY, MD

LOUIS BERGER GROUP

4/2010

MD SHPO

NORTHEAST CORNER, LOOKING SOUTHWEST

PHOTO 3 OF 3

Building 152 (Civilian Quarters)
NSWCCD
MIHP # ~~M:29-56~~ M:29-52-5
Montgomery County
West Bethesda
1949
Public

Building 152, Civilian Quarters, is located in the uppermost northwestern portion of the 183.6 acre Naval Surface Warfare Center Carderock Division (NSWCCD). The installation is composed of 116 buildings and structures that function as research laboratories, administration facilities, and operations and utility structures. At the center of the installation is the David Taylor Model Basin (Buildings 1-4), a group of interconnected buildings that include a model basin, administration building, a shop building and laboratory. The David Taylor Model Basin was listed on the NRHP in 1985. In 1996 the NSWCCD Historic District was determined eligible for the NRHP, and 44 of the 116 buildings were recognized as contributing resources in the NSWCCD Historic District. Building 152 is a contributing resource in the NSWCCD Historic District.

Located on the north side of Albacore Road, Building 152 is the only dwelling now extant on the installation. The building was constructed in 1949 at a cost of \$14,692 to house executive officers and their families. The one-story structure has a wood frame, concrete foundation, vinyl siding, one-over-one-light double-hung sash windows flanked by vinyl shutters, and a gable roof covered in asphalt shingles. Building 152 is attached by an enclosed walkway to the adjacent fire station.

Maryland Historical Trust Maryland Inventory of Historic Properties Form

M:29-52-5
Inventory No. ~~M:29-50~~

1. Name of Property (indicate preferred name)

historic Building 152 (Civilian Quarters)

other _____

2. Location

street and number Naval Surface Warfare Center Carderock Division, 9500 MacArthur Boulevard not for publication

city, town West Bethesda vicinity

county Montgomery

3. Owner of Property (give names and mailing addresses of all owners)

name United States Navy

street and number 9500 MacArthur Blvd.

telephone _____

city, town West Bethesda

state MD

zip code 20817

4. Location of Legal Description

courthouse, registry of deeds, etc. Montgomery County Courthouse liber folio _____

city, town Rockville

tax map _____

tax parcel _____

tax ID number _____

5. Primary Location of Additional Data

- Contributing Resource in National Register District
 Contributing Resource in Local Historic District
 Determined Eligible for the National Register/Maryland Register
 Determined Ineligible for the National Register/Maryland Register
 Recorded by HABS/HAER
 Historic Structure Report or Research Report at MHT
 Other: _____

6. Classification

Category	Ownership	Current Function		Resource Count	
<input type="checkbox"/> district	<input checked="" type="checkbox"/> public	<input type="checkbox"/> agriculture	<input type="checkbox"/> landscape	Contributing	Noncontributing
<input checked="" type="checkbox"/> building(s)	<input type="checkbox"/> private	<input type="checkbox"/> commerce/trade	<input type="checkbox"/> recreation/culture	<u>1</u>	<input type="checkbox"/> buildings
<input type="checkbox"/> structure	<input type="checkbox"/> both	<input checked="" type="checkbox"/> defense	<input type="checkbox"/> religion	_____	<input type="checkbox"/> sites
<input type="checkbox"/> site		<input type="checkbox"/> domestic	<input type="checkbox"/> social	_____	<input type="checkbox"/> structures
<input type="checkbox"/> object		<input type="checkbox"/> education	<input type="checkbox"/> transportation	_____	<input type="checkbox"/> objects
		<input type="checkbox"/> funerary	<input type="checkbox"/> work in progress	<u>1</u>	<input type="checkbox"/> Total
		<input type="checkbox"/> government	<input type="checkbox"/> unknown		
		<input type="checkbox"/> health care	<input type="checkbox"/> vacant/not in use		
		<input type="checkbox"/> industry	<input type="checkbox"/> other:		
				Number of Contributing Resources previously listed in the Inventory	
				<u>1</u>	

7. Description

Inventory No. ~~M:29-56~~

Condition

- excellent
- good
- fair
- deteriorated
- ruins
- altered

Prepare both a one paragraph summary and a comprehensive description of the resource and its various elements as it exists today.

Building 152, Civilian Quarters, is located in the uppermost northwestern portion of the 183.6 acre Naval Surface Warfare Center Carderock Division (NSWCCD). Located approximately 12 miles northwest of Washington, DC near Bethesda, Maryland, NSWCCD is situated north of the Potomac River and is bordered by the Clara Barton Parkway to the south and MacArthur Boulevard to the north and east. The installation is composed of 116 buildings and structures that function as research laboratories, administration facilities, and operations and utility structures. At the center of the installation is the David Taylor Model Basin (Buildings 1-4), a group of interconnected buildings that include a model basin, administration building, a shop building and laboratory. The David Taylor Model Basin was listed on the NRHP in 1985. In 1996 the NSWCCD Historic District was determined eligible for the NRHP, and 44 of the 116 buildings were recognized as contributing resources in the NSWCCD Historic District. Building 152 is a contributing resource in the NSWCCD Historic District.

Located on the north side of Albacore Road, Building 152 is the only dwelling now extant on the installation. The building was constructed in 1949 at a cost of \$14,692 to house executive officers and their families. Originally, an identical building, Building 151, was located opposite Building 152 with a drive leading to Albacore Road between the dwellings. The primary facades of Buildings 151 and 152 originally fronted the drive. Today, the principal façade of Building 152 is located at the south gable-end and faces Albacore Road, and the west façade is connected to the adjacent fire station by an enclosed walkway. The one-story quarters has a wood frame, concrete foundation, vinyl siding, one-over-one-light double-hung sash windows flanked by vinyl shutters, and a gable roof covered in asphalt shingles.

The south façade, which is three bays wide, features a wood entrance door flanked on either side by two one-over-one-light double-hung sash windows. A screen porch extends one bay from the southwest corner of the front façade to east of the door. The screen porch is wood frame with a roof covered in asphalt shingles. The facades of the screen porch have wood panels located on the bottom half and one-over-one-light double-hung sash windows located on the top half. A door is located at the easternmost bay.

The east and west facades of the dwelling are four bays deep. The west façade has a single door that connects with the adjoining fire station. One window is located south of the door, and two windows are located north of the door. The north façade has two evenly spaced windows. The east façade has a centrally placed entrance with pair of windows located south of the door and a single window located north of the door. These one-over-one-light double-hung sash windows are smaller than all the other windows. Two full-size windows are located at the southernmost and northernmost bays.

The house has one main room with several small rooms leading off a central hall. The main room has parquet floors. The bedrooms and hallway are carpeted. One bedroom is located off the main room in the southeast corner of the dwelling. North of the bedroom is an office space, followed by a utility room and bathroom. The rooms are accessed from the hall. A bedroom is located opposite the utility room, and two bedrooms are located in the northwest and northeast corners of the dwelling.

Building 152 had undergone numerous alterations. A plan of Building 152 from c. 1961 depicts the original floor plan of the dwelling. The main entrance was situated on the west façade. A dining room, currently functioning as a bedroom, was located off the living room in the southeast corner of the dwelling, and a door located on the north wall of the dining room led into a kitchen. In 1977 the exterior wood clapboard siding was covered in vinyl siding, and at a later date, the original eight-over-eight-light double-hung sash windows were replaced with the existing windows.

8. Significance

Inventory No. M:29-56

Period	Areas of Significance	Check and justify below		
<input type="checkbox"/> 1600-1699	<input type="checkbox"/> agriculture	<input type="checkbox"/> economics	<input type="checkbox"/> health/medicine	<input type="checkbox"/> performing arts
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> archeology	<input type="checkbox"/> education	<input type="checkbox"/> industry	<input type="checkbox"/> philosophy
<input type="checkbox"/> 1800-1899	<input checked="" type="checkbox"/> architecture	<input type="checkbox"/> engineering	<input type="checkbox"/> invention	<input type="checkbox"/> politics/government
<input checked="" type="checkbox"/> 1900-1999	<input type="checkbox"/> art	<input type="checkbox"/> entertainment/ recreation	<input type="checkbox"/> landscape architecture	<input type="checkbox"/> religion
<input type="checkbox"/> 2000-	<input type="checkbox"/> commerce	<input type="checkbox"/> ethnic heritage	<input type="checkbox"/> law	<input type="checkbox"/> science
	<input type="checkbox"/> communications	<input type="checkbox"/> exploration/ settlement	<input type="checkbox"/> literature	<input type="checkbox"/> social history
	<input type="checkbox"/> community planning		<input type="checkbox"/> maritime history	<input type="checkbox"/> transportation
	<input type="checkbox"/> conservation		<input checked="" type="checkbox"/> military	<input type="checkbox"/> other: _____

Specific dates 1949-1958 **Architect/Builder** U. S. Navy, Bureau of Yards and Docks

Construction dates 1949

Evaluation for:

National Register Maryland Register not evaluated

Prepare a one-paragraph summary statement of significance addressing applicable criteria, followed by a narrative discussion of the history of the resource and its context. (For compliance projects, complete evaluation on a DOE Form – see manual.)

Summary

Building 152 is considered a contributing element in the National Register eligible NSWCCD Historic District. In 1996 the NSWCCD Historic District was found to possess the qualities of exceptional importance defined under National Register Criterion Consideration G with the historic context of Military research, design, testing, and evaluation. NSWCCD also meets eligibility criteria A and C. NSWCCD is associated with events that have made a significant contribution to the broad patterns of military technology (Criterion A) and retains an intact collection of research, design, testing, and evaluation buildings and facilities (Criterion C).

Historic Context

The U. S. Navy's first laboratory for studying ship behavior was the United States Experimental Basin (EMB). Constructed in 1898 under the leadership of Rear Admiral David Watson Taylor, the EMB was located at the Washington Navy Yard. Designed for the testing of ship hulls, propeller studies, and rudder developments, the basin contained a carriage that towed wooden ship models and carried cameras to allow engineers to study how eddy and wave making resistance were generated (Melhuish 1996). In 1912, due to advancements in aviation, the Navy expanded its laboratory facilities to include a wind tunnel. Designed by aeronautical engineers, Holden C. Richardson and William W. McEntree, the Navy's first wind tunnel was completed in 1913 and was used to test the resistance of shapes in air to improve the aerodynamics of airfoils, body shapes, and windshield design (Carlise 1998: 78).

The facilities at the Washington Navy Yard soon proved inadequate. The basin was resting on an unsteady foundation undermined by springs, and it had become technically insufficient to meet the demands of both commercial users and the rapidly modernizing Navy (Carlise 1998: 132). In 1936 Congress authorized funding for the construction of a new basin, and in 1937, 107 acres in Carderock, Maryland was chosen for the new installation due to the presence of bedrock, level terrain, nearby water supply, and accessibility to downtown Washington (Carlise 1998: 144).

Commander Ben Moreell is credited with the design of the new basin. His architectural plans called for a long rectangular basin building running east and west, covered by a barrel arch roof with a 110-foot span and a three-story combination office-laboratory that would connect with the basin structure (Carlise 1998: 143-44). Designed in the Art Moderne style of architecture, the office-laboratory won Moreell an Association of Federal Architects' award. Construction at Carderock began in 1937, and the official dedication was held on November 4, 1939 for the David Taylor Model Basin, named in honor of David W. Taylor. In 1985 the David Taylor Model Basin (DTMB) and associated buildings were listed on the National Register of Historic Places.

The primary mission of the DTMB, as defined by Congress, was to investigate and determine the most suitable and desirable shapes and forms for naval vessels and aircraft (Melhuish 1996). During its first year of operation, the DTMB was mostly involved in design work, but at the outset of World War II, activities at the DTMB were focused on war-related topics. Research became a major

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Name
Continuation Sheet

Number 8 Page 1

directive, and new facilities and staff were added to support research activities. New facilities added to the installation included a research pit for explosion testing (1941), wind tunnels and associated buildings (1942), a pentagonal test pond to test underwater explosives (1943), Circulating Water Channel to test the angles and drag of submerged towed devices (1944), and two supersonic wind tunnels that had been dismantled in Germany and installed at Carderock (1946) (Melhuish 1996).

During this rapid expansion, careful consideration was given to the overall physical planning and growth of the installation. Under the direction of Captain H. S. Howard, the installation grew with the addition of 47 acres in 1943 and 55 acres in 1946. Howard wrote in 1945, "Having in mind the architecture of the main building, I visualize something in the nature of a college campus or graduate school grown up around and in front of the main building. A row of buildings might well grow to the east and to the west of the main building toward the south but the central area should be kept free of building so that eventually a U-shaped group is formed with the open end toward the Highway," (Carlise 1998: 192). The campus of buildings created at Carderock during this period was determined eligible for the National Register as the Naval Surface Warfare Center Carderock Division Historic District in 1996.

During the second half of the twentieth century, NSWCCD research grew to incorporate the use of computers. The Applied Mathematics Laboratory was established in 1952, and the first computer used at the facility was the Universal Automatic Computer. A second addition was the Livermore Atomic Research computer acquired in 1960. Research in calculation, forming solutions on specific engineering research problems, and handling operation, maintenance and design improvements for naval vehicles was conducted on the computers (Melhuish 1996). Today, both the experimental and computer facilities play a key role in the operations taking place at NSWCCD, and the installation has retained its campus-like setting, with a mixture of old and new structures.

Originally constructed as Civilian Quarters to house executive officers and their families, Building 152 is associated with the day-to-day operations of NSWCCD. Building 152 and an identical structure, Building 151, were constructed during the period of rapid expansion at NSWCCD and represent the increased need for on-site housing. In 1995 Building 151 was demolished and replaced with the NSWCCD firehouse, and Building 152 was withdrawn from the Navy housing list and is currently used as a berthing house for the fire department personnel.

9. Major Bibliographical References

Inventory No. ~~M.29-56~~

See Continuation Sheet.

10. Geographical Data

Acreage of surveyed property less than 0.5 acres
 Acreage of historical setting less than 0.5 acres
 Quadrangle name Falls Church

Quadrangle scale: 1:24000

Verbal boundary description and justification

The boundary of the property occupies the footprint of the building within the Naval Surface Warfare Center, Carderock Division located in West Bethesda.

11. Form Prepared by

name/title	Megan Rupnik, Architectural Historian		
organization	Louis Berger Group	date	October 2003
street & number	2300 N Street, NW	telephone	(202) 912-0200
city or town	Washington	state	DC

The Maryland Inventory of Historic Properties was officially created by an Act of the Maryland Legislature to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 supplement.

The survey and inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

return to: Maryland Historical Trust
 DHCD/DHCP
 100 Community Place
 Crownsville, MD 21032-2023
 410-514-7600

**Maryland Historical Trust
Maryland Inventory of
Historic Properties Form**

M: 29-52-5
Inventory No. ~~M: 29-56~~

Name
Continuation Sheet

Number 9 Page 1

Allison, David K

1984 *David W. Taylor Model Basin, National Register of Historic Places Inventory, Nomination Form.* Ms. On file at the Maryland Historical Trust, Crownsville.

Allison, David K, Ben G. Keppel, and C. Elizabeth Nowicke

1988 *David W. Taylor.* U. S. Government Printing Press, Washington DC.

Carlise, Rodney

1998 *Where the Fleet Begins: A History of the David Taylor Research Center.* U. S. Government Printing Office, Washington, DC.

Giglio, W. Patrick

1999 *Subsonic Wind Tunnel Complex at NSWCCD, Maryland Historical Trust State Historic Site Inventory Form.* On file at the Maryland Historical Trust, Crownsville.

Kuranda, Katherin M., April L. Fehr, and Brook V. Best

2000 *Integrated Cultural Resource Management Plan: Naval Surface Warfare Center, Carderock Division.* On file at the Naval Surface Warfare Center, Carderock Division, West Bethesda, MD.

Melhuish, Geoffrey E.

1996 *Naval Surface Warfare Center Carderock District, Maryland Historical Trust State Historic Sites Inventory Form.* On file at the Maryland Historical Trust, Crownsville.

Unpublished Materials

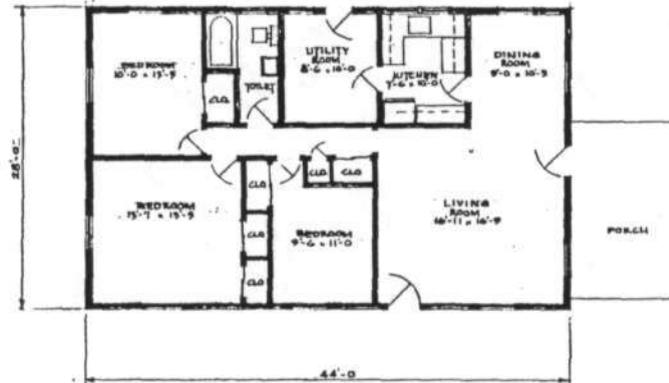
Naval Surface Warfare Center, Carderock Division, Public Works Office. West Bethesda, Md. Floor plans.

LIST OF MATERIAL			
PART NO.	QUANTITY	NAME OF PART	SOURCE

BUILDING MATERIAL

FLOOR- CONCRETE SLAB & ASPHALT TILE
 EXTERIOR WALL- WOOD FRAMING & SIDING
 INTERIOR WALL- WALLBOARD & TAPED JOINTS
 ON 2-4 STUDS

ACTUAL CONSTRUCTION COST 1949 \$14,692
 CONSTRUCTION COST ESTIMATE 1961
 INCLUDING 60% COST RISE
 FROM 1949 TO 1961 \$25,507
 SQUARE FOOT COST \$19.00



1252.50 FT
 GROSS FLOOR AREA

FIRST FLOOR PLAN

REVISION	DATE	DESCRIPTION	BY

NAVY DEPARTMENT WASHINGTON, D. C.
DAVID W. TAYLOR MODEL BASIN

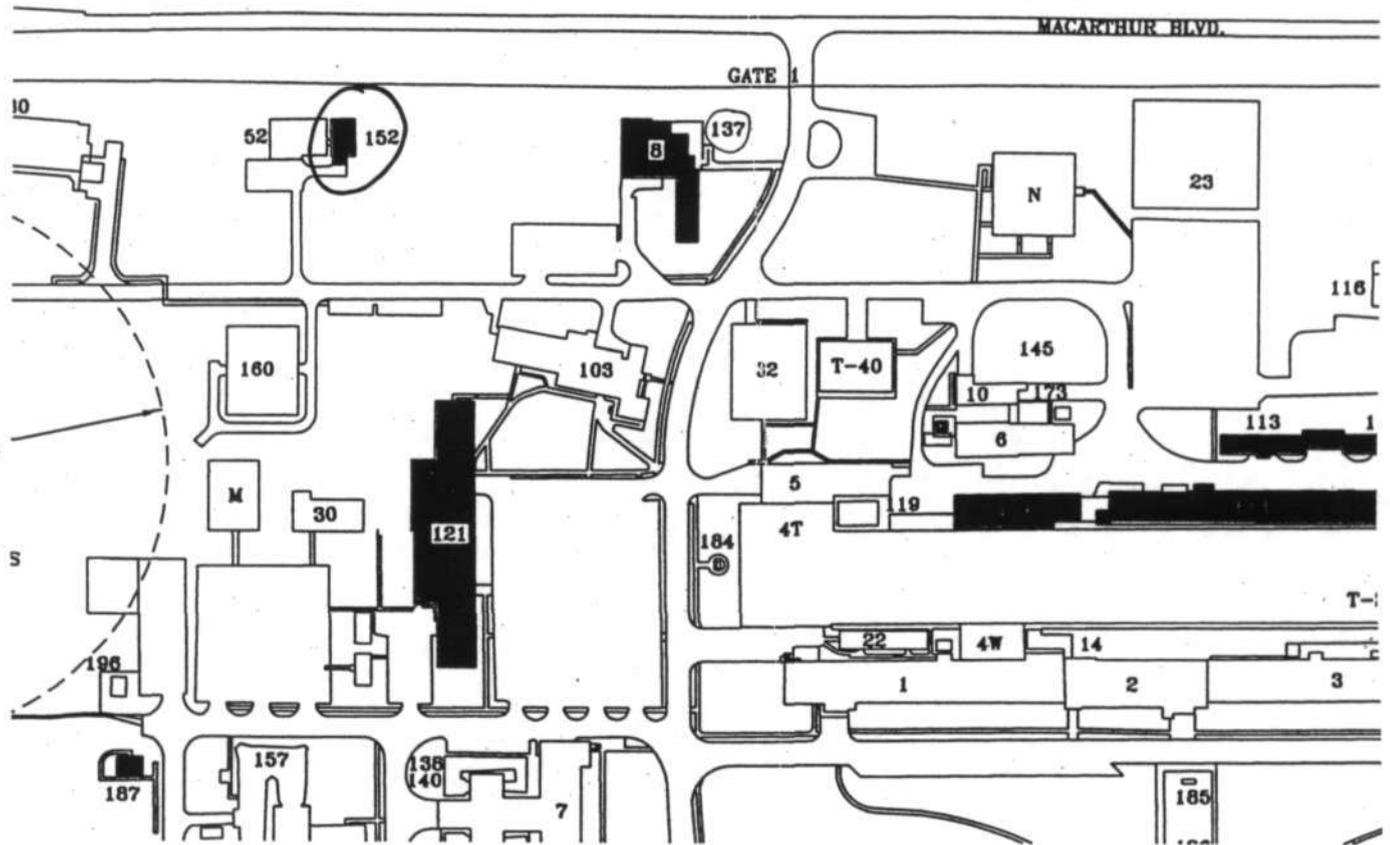
DESIGNED _____
 DRAWN RG
 CHECKED _____
 SEC. HEAD _____
 DIV. CHIEF _____
 APPROVED FOR _____ DATE _____

BUILDING 152
 EXISTING CIVILIAN QUARTER
 DAVID TAYLOR MODEL BASIN
 CARDEROCK, MARYLAND

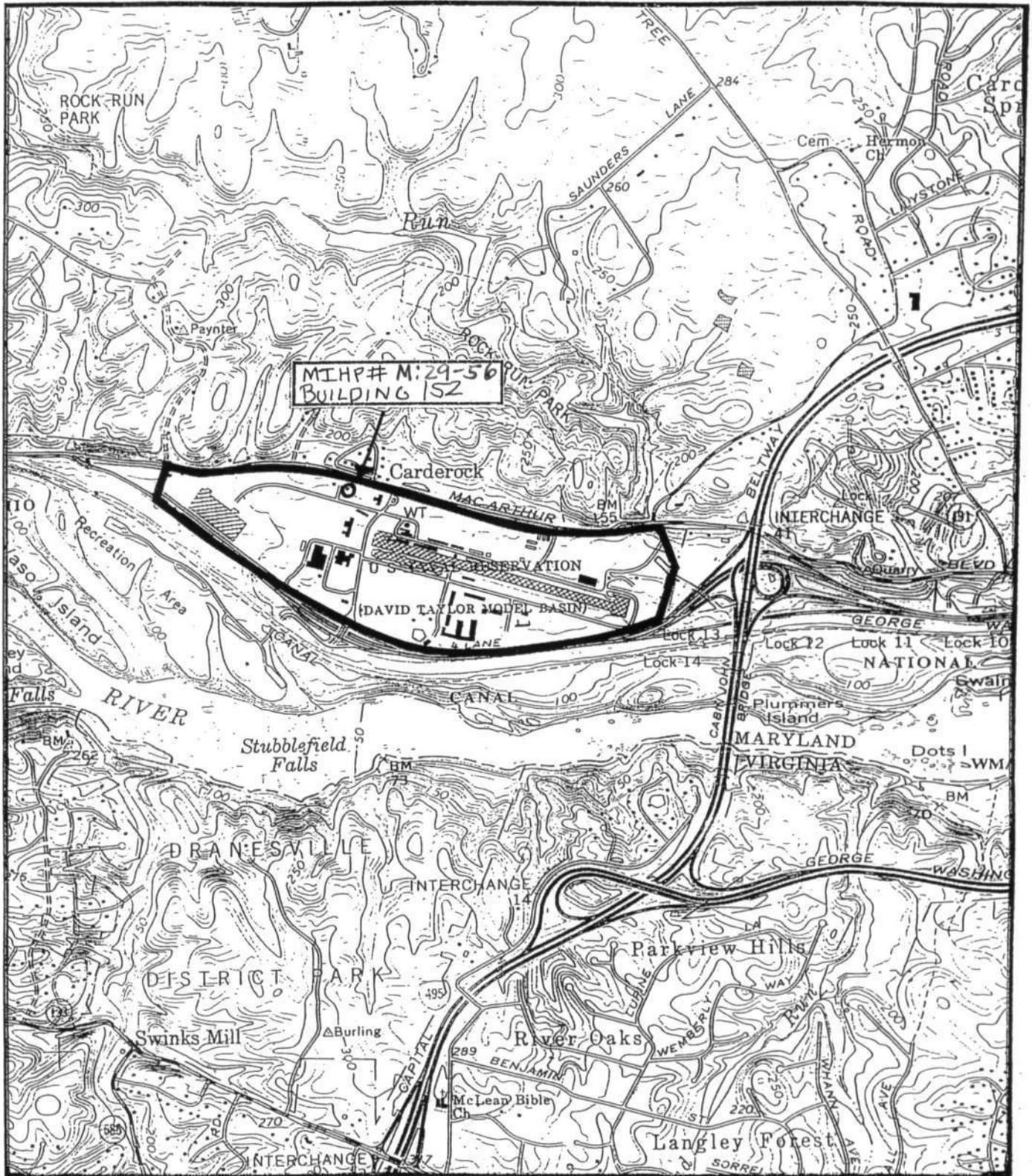
APPROVED _____ DATE _____
 SCALE: 1/8" = 1'-0" P.W.NO. 1791
 J. O. S-14002-3 ALT.

PRINT RECORD				SHOP WORK REQUEST			
SENT TO	NO.	DATE	SENT TO	NO.	DATE		

MIHP# M:29-52-5
 BLDG 152 (ND)
 NSWCCD, CARDEROCK
 MONTGOMERY COUNTY

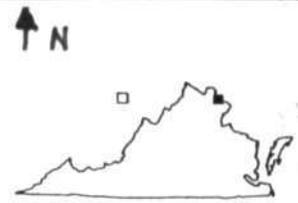
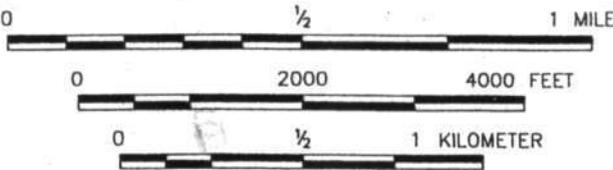


Resource Sketch Map
 MIHP# ~~M:29-56~~ M:29-52-5
 Building 152
 NSWCCD, Carderock
 Montgomery County



MIHP# M:29-52-50
 BUILDING 152
 NSWCLD,
 CARDEROCK
 MONTGOMERY
 COUNTY

SCALE 1:24000



Resource Location Map
 Source: USGS 7.5' Falls Church, VA (1965, revised 1984)

VIRGINIA
 QUADRANGLE LOCATION



MIHP# M.29-52-5

BUILDING 152, NSWCCD HISTORIC DISTRICT (M.29-52)

MONTGOMERY COUNTY, MD

M. RUPNIK

9-5-02

NEG. LOCATION: MD SHPO

SOUTH FACADE + ADJOINING FIREHOUSE

1/7



MIHP # M.29-52-5

BUILDING 152, NSWCCD HISTORIC DISTRICT (M:29.52)

MONTGOMERY COUNTY, MD

M. RUPNIK

9-5-02

NEG. LOCATION: MD SHPO

SOUTH FACADE

217



MIHP # M:29-52-5

BUILDING 152, NSWCDD HISTORIC DISTRICT (M:29-52)
MONTGOMERY COUNTY, MD

M. RUPNIK

9-5-62

NEG. LOCATION: MD SHPO

SOUTHEAST FACADE

3/7



MIHP# M:29-52-5

BUILDING 152, NSWCCD HISTORIC DISTRICT (M:29-52)

MONTGOMERY COUNTY, MD

M. RUPNIK

9-5-02

NEG. LOCATION: MD SHPO

EAST FACADE

4/7



MIHP# M:29-52-5

BUILDING 152, NSUCCD HISTORIC DISTRICT (M:29-52)

MONTGOMERY COUNTY, MD

M. RUPNIK

9-5-02

NEG LOCATION: MD SHPO

NORTH FACADE

5/7



MIHP# M:29-52-5

BUILDING 152, NSWCCD HISTORIC DISTRICT (M:29-52)

MONTGOMERY COUNTY, MD

M. RUPNIK

4-5-02

NEG. LOCATION: MD SHPO

INTERIOR - MAIN ROOM

6/7



MIHP# M:29-52-5
BUILDING 152, NSWCCD HISTORIC DISTRICT (M:29-52)
MONTGOMERY COUNTY, MD
M. RUPNIK
9-5-02
NEG. LOCATION: MD SHPO
INTERIOR
7/7