MARYLAND HISTORICAL TRUST
DETERMINATION OF ELIGIBILITY FORM

NR Eligible: yes X
no ___

Property Name: Building 188, Anechoic Equipment Building Inventory Number: M: 29-52-11

Address: 9500 MacArthur Boulevard Historic district: X yes ___ no

City: West Bethesda Zip Code: 20817 County: Montgomery

USGS Quadrangle(s): Falls Church

Property Owner: United States Navy Tax Account ID Number: ___

Tax Map Parcel Number(s): ___ Tax Map Number: ___

Project: Contract N40080-07-D-0311, Delivery Order 26 Agency: NAVFAC Washington

Agency Prepared By: The Louis Berger Group, Inc.

Preparer's Name: Patti Kuhn Date Prepared: 10/26/2011

Documentation is presented in: 2011 Integrated Cultural Resources Management Plan

Preparer's Eligibility Recommendation: X Eligibility recommended ___ Eligibility not recommended

Criteria: X A ___ B X C ___ D Considerations: ___ A ___ B ___ C ___ D ___ E ___ F ___ G

Complete if the property is a contributing or non-contributing resource to a NR district/property:

Name of the District/Property: NSWCCD

Inventory Number: M: 29-52 Eligible: X yes Listed: ___ yes

Site visit by MHT Staff ___ yes X no Name: ___ Date: ___

Description of Property and Justification: *(Please attach map and photo)*

Building 188 is located in the southeast portion of the 183.6-acre Naval Support Facility (NSF) Carderock, formerly known as the Naval Surface Warfare Center Carderock Division (NSWCCD). Located approximately 12 miles northwest of Washington, D.C., near Bethesda, Maryland, NSF Carderock 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 112 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 (DTMB) (Buildings 1-4), a group of interconnected buildings that include a model basin, an administration building, a shop building, and a laboratory. Building 188 is located directly south of Building 21 and north of Building 189.

Description

Built in 1971, Building 188 is an Anechoic Equipment Building for Building 189, the Anechoic Test Tunnel (1970). The small rectangular building sits on a solid concrete foundation and is constructed of concrete aggregate panels. It has a flat roof with overhanging eaves. A double-leaf metal door is located on its north elevation. A louvered metal vent is located above the door. The building houses electrical equipment.

MARYLAND HISTORICAL TRUST REVIEW

Eligibility recommended X **Eligibility not recommended** ___

Criteria: X A ___ B X C ___ D **Considerations:** ___ A ___ B ___ C ___ D ___ E ___ F ___ G

MHT Comments:

Reviewer, Office of Preservation Services 6/26/14 Date

Reviewer, National Register Program 6/26/14 Date

201204174

Evaluation

Building 188 was built in 1971 as an electrical equipment building for the Anechoic Test Facility (ATF), now known as the Anechoic Flow Facility (AFF). The ATF was dedicated with a ribbon-cutting ceremony on July 2, 1970, and consists of Building 21 (Anechoic Test Support Facility) and Building 189 (Anechoic Test Tunnel). The AFF is a unique test facility that combines a low-noise, low-turbulence wind tunnel with an anechoic chamber measuring flow-generated noise. The facility provides a "controlled laboratory environment where details of flow excited noise from structures, boundary layer pressure fluctuations, and noise from model propulsors can be studied under dynamic conditions" (NAVSEA 2010). Building 188 holds electrical equipment that aids in the operation of the Anechoic Test Tunnel (Building 189).

In 1985 the DTMB and associated buildings (Buildings 1-4) were listed in the National Register of Historic Places (M: 29-47). The campus of buildings created at NSF Carderock from 1938 to 1958 was determined eligible for the National Register as the Naval Surface Warfare Center Carderock Division (NSWCCD) Historic District in 1996. The determination of eligibility stated that the historic district possesses the qualities of exceptional significance under Criterion G "within the historic context of military research, design, testing, and evaluation." It also stated that the historic district meets Criterion A for events that have made a significant contribution to military technology, and Criterion C for its intact collection of RDT&E buildings and facilities. The period of significance for the historic district was determined as beginning in 1938 when the model basin was constructed and ending in 1958, the end date of physical model testing and the official mission change to include computer research and testing. In 1995, 116 built resources were recorded and 44 were determined as contributing to the historic district (Melhuish 1996).

In 2006 The Louis Berger Group, Inc., updated the ICRMP for NSF Carderock. In October-November 2005 Buildings 16 and 18 were re-evaluated and found to be eligible for the National Register as contributing elements in the historic district. This evaluation also recommended that the period of significance for the historic district (originally 1938 to 1958) warranted expansion to 1970, marking the completion of the Anechoic Test facility and the close of the 20 "Golden Years of Research" at DTMB (Bowers 2005).

Building 188 is recommended as contributing to the NSWCCD (NSF Carderock) Historic District. Building 188 was built as a support building to Building 189, the Anechoic Test Tunnel. These two buildings, along with Building 21, comprise the Anechoic Flow Facility, a significant test facility at NSF Carderock. No known changes have been made to the building since its construction, and it retains sufficient integrity. Therefore Building 188 is associated with the significance of the historic district for its contribution to military technology (Criterion A) and as part of the campus's collection of RDT&E buildings (Criterion C). Although it was built outside the recommended period of significance (1938-1970), it contributes as a support building constructed for the Anechoic Flow Facility.

Works Cited

Bowers, Martha H.
2005 Maryland Inventory of Historic Property Forms for Buildings 16 and 18, NSWCCD. Prepared for the United States Navy by The Louis Berger Group, Inc., Morristown, New Jersey. On file, Maryland Historical Trust, Crownsville.

Carlisle, Rodney
1987 Where the Fleet Begins: A History of the David Taylor Research Center. Prepared for the David Taylor Naval Ship R & D Center, Carderock, Maryland, by History Associates Incorporated.

Internet Navy Facilities Assets Data Store [INFADS]

MARYLAND HISTORICAL TRUST REVIEW

Eligibility recommended _____ **Eligibility not recommended** _____

Criteria: ___A ___B ___C ___D **Considerations:** ___A ___B ___C ___D ___E ___F ___G

MHT Comments:

_____ _____

Reviewer, Office of Preservation Services **Date**

_____ _____

Reviewer, National Register Program **Date**

2011 Various property records. Naval Facilities Engineering Command [NAVFAC] Washington, D.C.

Melhuish, Geoffrey E.
1996 Historical and Architectural Documentation of the Naval Surface Warfare Center Carderock Division, Maryland: Draft. Prepared for Engineering Field Activity-Chesapeake, Washington, D.C., by R. Christopher Goodwin and Associates, Inc.

Naval Sea Systems Command [NAVSEA]
2010 Anechoic Flow Facility. Naval Sea Systems Command. Accessed online at http://www.navsea.navy.mil/nswc/carderock/default.aspx. Copy on file, The Louis Berger Group, Inc., Washington, D.C.

MARYLAND HISTORICAL TRUST REVIEW

Eligibility recommended _____ **Eligibility not recommended** _____

Criteria: ___A ___B ___C ___D **Considerations:** ___A ___B ___C ___D ___E ___F ___G

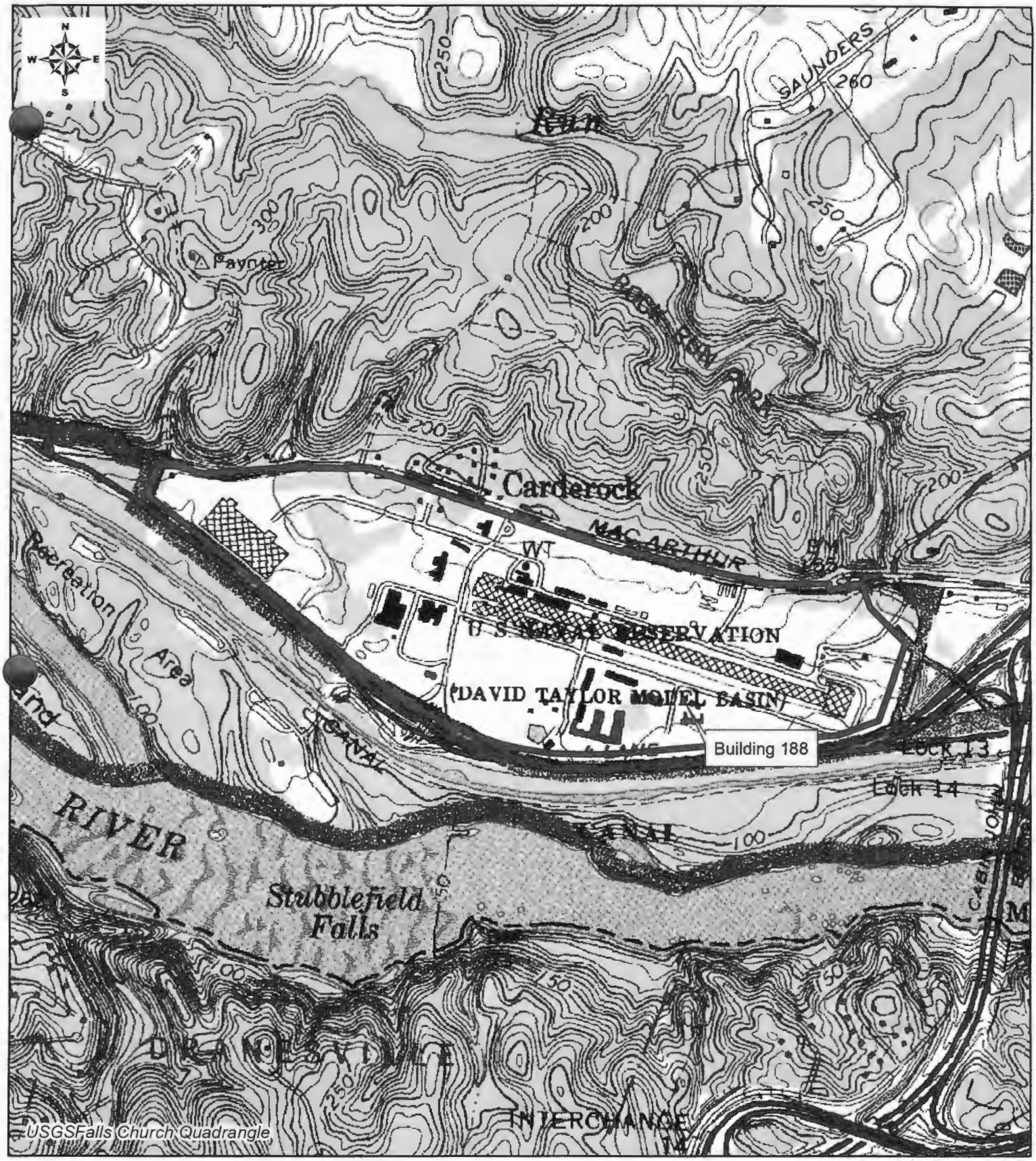
MHT Comments:

_____ _____

Reviewer, Office of Preservation Services **Date**

_____ _____

Reviewer, National Register Program **Date**

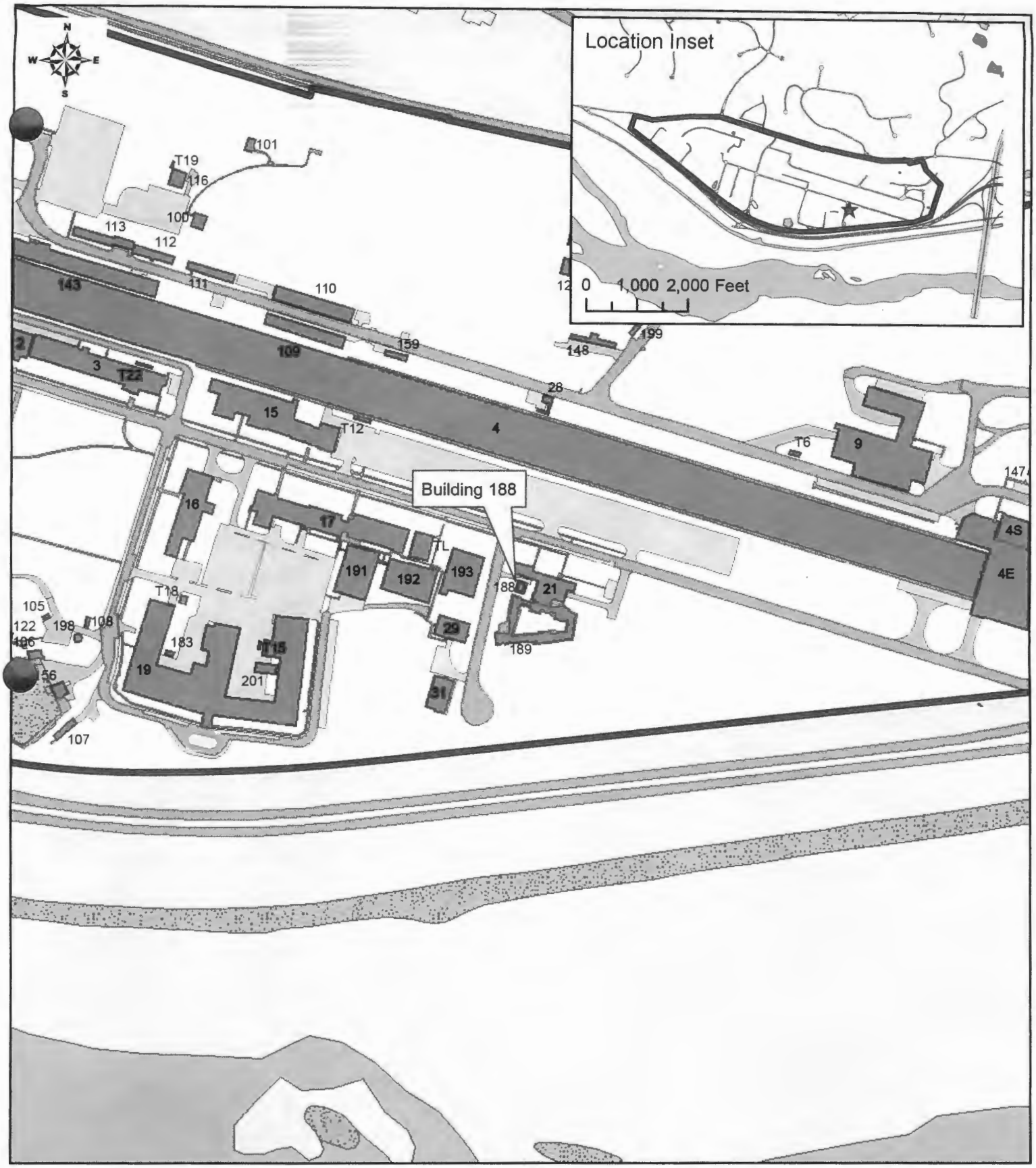


Historic District

500 0 500 Feet

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

Building Number 188



Structures

Historic District

100 0 100 Feet

Naval Support Facility, Carderock
NSWCCD Historic District (MIHP No. M:29-52)-11

Building Number 188

M:29-52-11

NSWCCD HISTORIC DISTRICT (NSF CARDEROCK)

BLDG 188. ANECHOIC EQUIPMENT BUILDING

MONTGOMERY COUNTY, MD

LOUIS BERGER GROUP

4/2010

MDSHPO

NORTHEAST CORNER, LOOKING SOUTHWEST

PHOTO 1 OF 2

C-133

M: 29-52-11

NSWCCD HISTORIC DISTRICT (NSF CARDEROCK)

BLDG 188. ANECHOIC EQUIPMENT BUILDING

MONTGOMERY COUNTY, MD

LOUIS BERGER GROUP

4/2010

MDSHPO

SOUTHWEST CORNER, LOOKING NORTHEAST

PHOTO 2 OF 2