

Original
 Update



HISTORICAL STRUCTURE FORM

FLORIDA MASTER SITE FILE

Version 4.0 1/07

Site #8 BR2671
Field Date 04 / 21 / 2010
Form Date 8 / 20 / 2010
Recorder # _____

Shaded Fields represent the minimum acceptable level of documentation.
Consult the *Guide to Historical Structure Forms* for detailed instructions.

Site Name(s) (address if none) Space Station Processing Facility Multiple Listing (DHR only) _____
Survey Project Name Historical Survey and Evaluation of the Space Station Processing Facility Survey # (DHR only) _____
National Register Category (please check one) building structure district site object
Ownership: private-profit private-nonprofit private-individual private-nonspecific city county state federal Native American foreign unknown

LOCATION & MAPPING

Address (include N,S,E,W; #, St., Ave., etc.) Facility #: M7-360; Industrial Area of Kennedy Space Center
Cross Streets (nearest / between) Southeast corner of 1st Street SE and E Avenue SE
USGS 7.5' Map Name & Date Orsino, Fla. 1976 Plat or Other Map _____
City / Town (within 3 miles) Titusville In City Limits? yes no unknown County Brevard
Township 23S Range 37E Section 4, 5 ¼ section: NW SW SE NE Irregular-name: _____
Tax Parcel # n/a Landgrant _____
Subdivision Name n/a Block _____ Lot _____
UTM: Zone 16 17 Easting 535016 0 Northing 3155289 0
Other Coordinates: X: _____ Y: _____ Coordinate System & Datum _____
Name of Public Tract (e.g., park) _____

HISTORY

Construction Year: 1992 approximately year listed or earlier year listed or later
Original Use* processing facility From (year): _____ To (year): _____
Current Use* processing facility From (year): _____ To (year): _____
Other Use* _____ From (year): _____ To (year): _____
Moves: yes no unknown Dates _____ Original address (if moved) _____
Alterations: yes no unknown Dates _____ Nature* _____
Additions: yes no unknown Dates _____ Nature* _____
Architect (last name first): Jacobs Engineering Group, Lakeland Builder (last name first): Metric Constructors, Inc., Tampa
Ownership History (especially original owner, dates, profession, etc.): National Aeronautics and Space Administration

Is the Resource Affected by a Local Preservation Ordinance? yes no unknown Describe _____

DESCRIPTION

Style* Industrial Vernacular Exterior Plan* rectangular Number of Stories 3
Exterior Fabric(s)* insulated and non-insulated metal sheeting; concrete block; composite wall panels
Roof Type(s)* flat Roof Material(s)* built-up
Roof secondary strucs. (domers etc.)* _____
Windows (types, materials, etc.)* ribbons of 1-light fixed windows

Distinguishing Architectural Features (exterior or interior ornaments) _____

Ancillary Features / Outbuildings (record outbuildings, major landscape features; use continuation sheet if needed.) attached cafeteria to the east; vapor containment facility to the east

* Consult *Guide to Historical Structure Forms* for preferred descriptions (coded fields at the Site File).

DHR USE ONLY		OFFICIAL EVALUATION	DHR USE ONLY	
NR List Date ____/____/____	SHPO - Appears to meet criteria for NR listing: <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> insufficient info KEEPER - Determined eligible: <input type="checkbox"/> yes <input type="checkbox"/> no NR Criteria for Evaluation: <input type="checkbox"/> a <input type="checkbox"/> b <input type="checkbox"/> c <input type="checkbox"/> d (see <i>National Register Bulletin</i> 15, p. 2)	Date _____	Init. _____	
<input type="checkbox"/> Owner Objection		Date _____		

DESCRIPTION (continued)

Chimney: No. 0 Material(s) * _____
 Structural System(s) * steel skeleton; concrete block
 Foundation: Type(s) * slab Material(s) * poured concrete
 Main Entrance (stylistic details) two pairs of glass swing doors on the north elevation
 Porch Descriptions (types, locations, roof types, etc.) n/a

Condition (overall resource condition): excellent good fair deteriorated ruinous
 Narrative Description of Resource see continuation sheet

Archaeological Remains _____ Check if Archaeological Form Completed

* Consult *Guide to Historical Structure Forms* for preferred descriptions (coded fields at the Site File).

RESEARCH METHODS (check all that apply)

- | | | | |
|--|--|--|--|
| <input checked="" type="checkbox"/> FMSF record search (sites/surveys) | <input checked="" type="checkbox"/> library research | <input type="checkbox"/> building permits | <input type="checkbox"/> Sanborn maps |
| <input type="checkbox"/> FL State Archives/photo collection | <input type="checkbox"/> city directory | <input checked="" type="checkbox"/> occupant/owner interview | <input type="checkbox"/> plat maps |
| <input type="checkbox"/> property appraiser / tax records | <input type="checkbox"/> newspaper files | <input type="checkbox"/> neighbor interview | <input type="checkbox"/> Public Lands Survey (DEP) |
| <input type="checkbox"/> cultural resource survey | <input checked="" type="checkbox"/> historic photos | <input checked="" type="checkbox"/> interior inspection | <input type="checkbox"/> HABS/HAER record search |
| <input type="checkbox"/> other methods (describe) _____ | | | |

Bibliographic References (give FMSF manuscript # if relevant, use continuation sheet if needed) KSC Archives

OPINION OF RESOURCE SIGNIFICANCE

Appears to meet the criteria for National Register listing individually? yes no insufficient information
 Appears to meet the criteria for National Register listing as part of a district? yes no insufficient information
 Explanation of Evaluation (required, whether significant or not; use separate sheet if needed) see continuation sheet

Area(s) of Historical Significance (see *National Register Bulletin 15*, p. 8 for categories: e.g. "architecture", "ethnic heritage", "community planning & development", etc.)
 OTHER: Space Exploration; Science; Engineering

DOCUMENTATION

Accessible Documentation Not Filed with the Site File - including field & analysis notes, photos, plans, other important documents that are permanently accessible:
 For each separately maintained collection, describe (1) document type(s),* (2) maintaining organization,* (3) file or accession nos., and (4) descriptive information.
Field notes, photos, background information at Archaeological Consultants Inc, Sarasota, Florida, Project #P9026K

RECORDER INFORMATION

Recorder Name Slovinac, Trish

Recorder Contact Information (address / phone / fax / e-mail) 8110 Blaikie Ct, Suite A, Sarasota, Florida 34243/941-379-6206/
 ACIFlorida@comcast.net

Recorder Affiliation Archaeological Consultants, Inc.

Use a *Supplement for Site Forms* or other continuation sheet for descriptions that do not fit in the spaces provided.

Required Attachments

- ① USGS 7.5' MAP WITH STRUCTURE LOCATION PINPOINTED IN RED
- ② LARGE SCALE STREET, PLAT OR PARCEL MAP (available from most property appraiser web sites)
- ③ PHOTO OF MAIN FACADE, ARCHIVAL B&W PRINT OR DIGITAL IMAGE FILE
 If submitting an image file, it must be included on disk or CD AND in hard copy format (plain paper is acceptable).
 Digital image must be at least 1600 x 1200 pixels, 24-bit color, jpeg or tiff.

CONTINUATION SHEET

Physical Description

The SSPF is an Industrial Vernacular style building with approximate overall dimensions of 671 feet (ft) in length (east-west), 367 ft in width (north-south), and 90 ft in height. The north elevation of the SSPF serves as the principal façade of the building. This elevation features pilasters formed with composite wall panels, ribbons of fixed and operable windows, and expanses of corrugated metal paneling with a stepped profile. The main entrance is located on this elevation, and is comprised of two pairs of mechanically-operated glass swing doors framed by fixed-window sidelights and a transom. It is shaded by an approximately 60-ft-deep concrete canopy, supported by columns. The second and third floor levels on this elevation are each denoted by a ribbon of windows that extends across the entire façade. Only on the east end of this elevation are the first floor and mezzanine levels indicated by ribbons of windows.

These ribbons of windows continue along the north half of both the east and west elevations of the SSPF, which corresponds to the office/laboratory area. Additionally, at the north end of the first floor level of the east elevation, there are three pairs of metal swing doors and one single metal swing door. The southern portion of this elevation, which corresponds to the High Bay area, contains one metal swing door and one metal rolling door along the High Bay's centerline. On the west elevation, the north portion contains two pairs of metal swing doors at the first floor level; the south end features a four-section vertical lift door, with a personnel opening. The south elevation of the SSPF is faced entirely with insulated metal panels, and contains very few openings, which include three metal swing doors into the High Bay. A small visitor's gallery, added ca. 1997, is located near the center of the south elevation.

Internally, the SSPF is divisible into two sections: an office/laboratory area to the north and a High Bay area to the south. The office/laboratory area contains three main floor levels; there is also a small first floor mezzanine at the northeast corner. The High Bay area, which comprises the southern portion of the SSPF, contains one-, two-, and three-floor sections. The first floor level contains the High Bay, the Airlock, the Hardware Inspection Area, the Intermediate Bay (I-Bay), the Low Bay, the Rack Room, five off-line processing laboratories, and part of the shipping/receiving area. Above the Low Bay, Rack Room, labs, and shipping area are two additional floor levels, which align with the second and third floors of the office/laboratory area. On the lower of the two levels are nine Control Rooms, that can be programmed to operate any of the eight footprints in the High Bay.

Ancillary Features

To the east of the I-Bay is the Ammonia Vapor Containment Building (M7-0361A), which is considered a contributing ancillary feature to the SSPF. Built ca. 2000, this facility is comprised of a poured concrete slab foundation, concrete block walls, and a metal shed roof. It contains a metal rolling door on its east elevation, and a metal swing door on its south elevation. This building contains all of the ammonia processing and handling equipment.

Explanation of Evaluation

The SSPF is considered eligible for listing in the NRHP in the context of the Space Station Program under Criterion A in the areas of Space Exploration and Science and under Criterion C in the area of Engineering. Because it has achieved significance within the past 50 years, Criteria Consideration G applies. The period of significance for the SSPF is from 1991, the beginning date of construction, through 2011, the anticipated end date for the in-orbit assembly of the U.S. portion of the ISS. It derives its primary significance from the hardware processing areas, specifically the High Bay, the I-Bay, the PRCU, and the Airlock, as well as nine associated control rooms. Under Criterion A, the SSPF is the only building in the United States that was designed and constructed exclusively for the pre-flight checkout and processing of ISS flight hardware. As such, all but three of the nearly four dozen components that

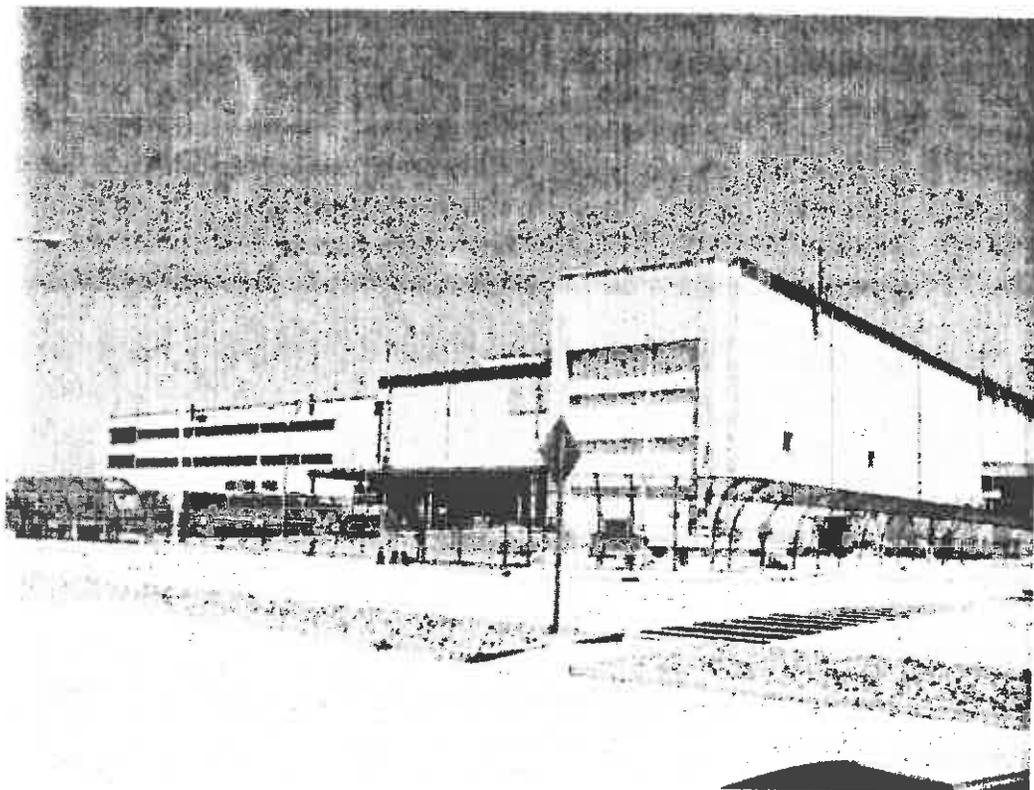
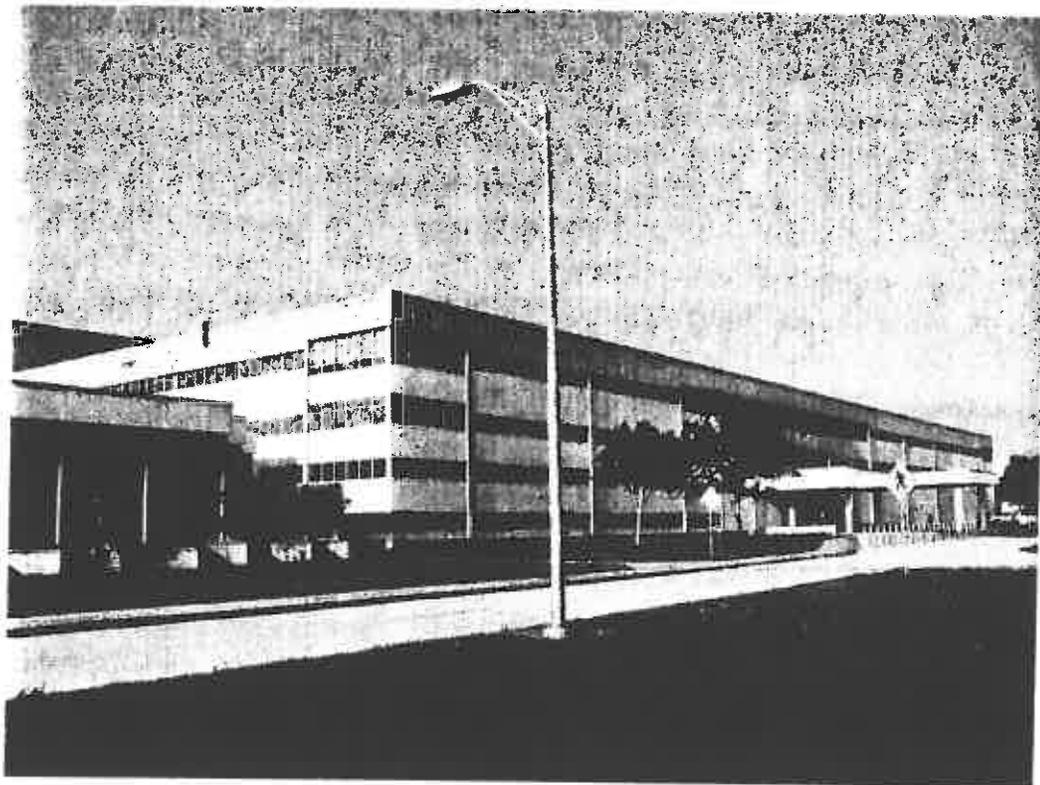
CONTINUATION SHEET

comprise the station were carried into orbit by one of the U.S. Space Shuttles, and therefore, underwent final preparations at the SSPF. Additionally, the shuttles have been used to transport the three MPLMs, *Leonardo*, *Raffaello* and *Donatello*, to and from the ISS. These three pressurized modules were filled at the SSPF with racks that carry equipment, experiments, and supplies to the station aboard the shuttle, and were unloaded here as well. Under Criterion C, the SSPF contains specific design features (such as a conductive floor) and specially engineered equipment for use in its processing activities.

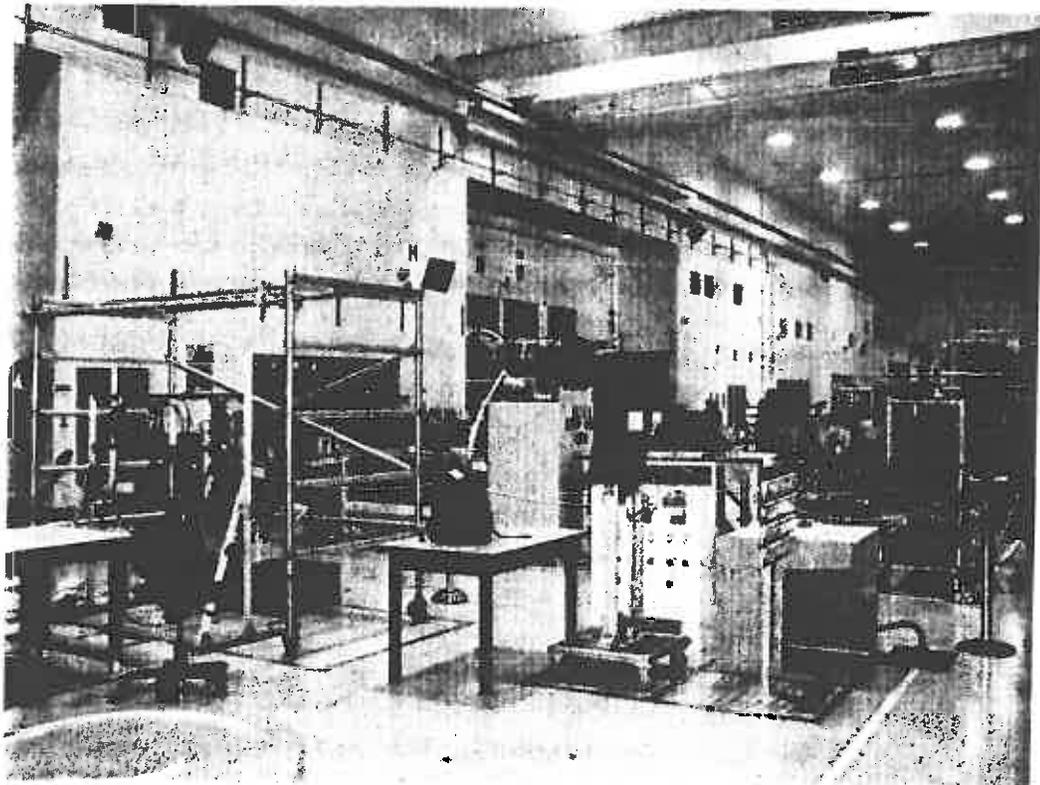
Bibliography

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- "KSC funds earmarked for two new buildings." *Spaceport News* (26, 2), January 16, 1987:6.
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- "Space Station Brings Challenge, Building." *Spaceport News* (26, 11), May 22, 1987:1 and 3.
- "Space Station Facility dedicated." *Spaceport News* (33, 13), July 1, 1994:2.
- "Space Station Processing Facility groundbreaking set March 26." *Spaceport News* (30, 6), March 22, 1991:8.
- "Space Station Processing Facility takes shape." *Spaceport News* (30, 17), August 30, 1991:8.
- Varnes, Mitch. "Space Station Processing Facility contract awarded." *Spaceport News* (30, 4), February 22, 1991: 1 and 4.

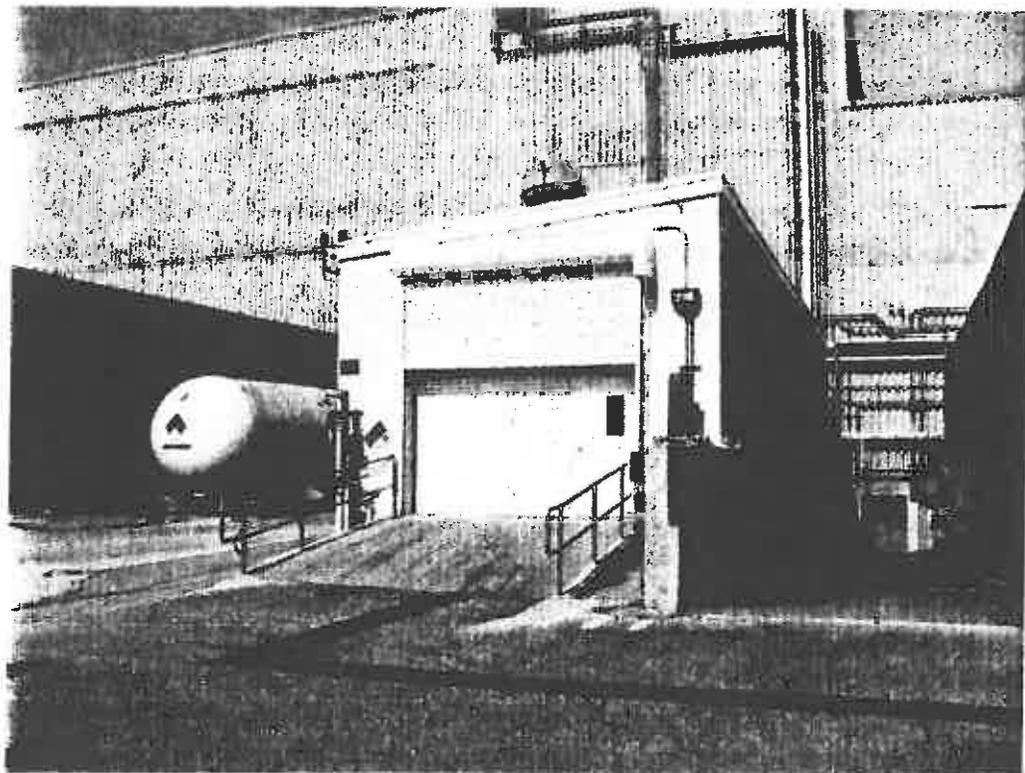
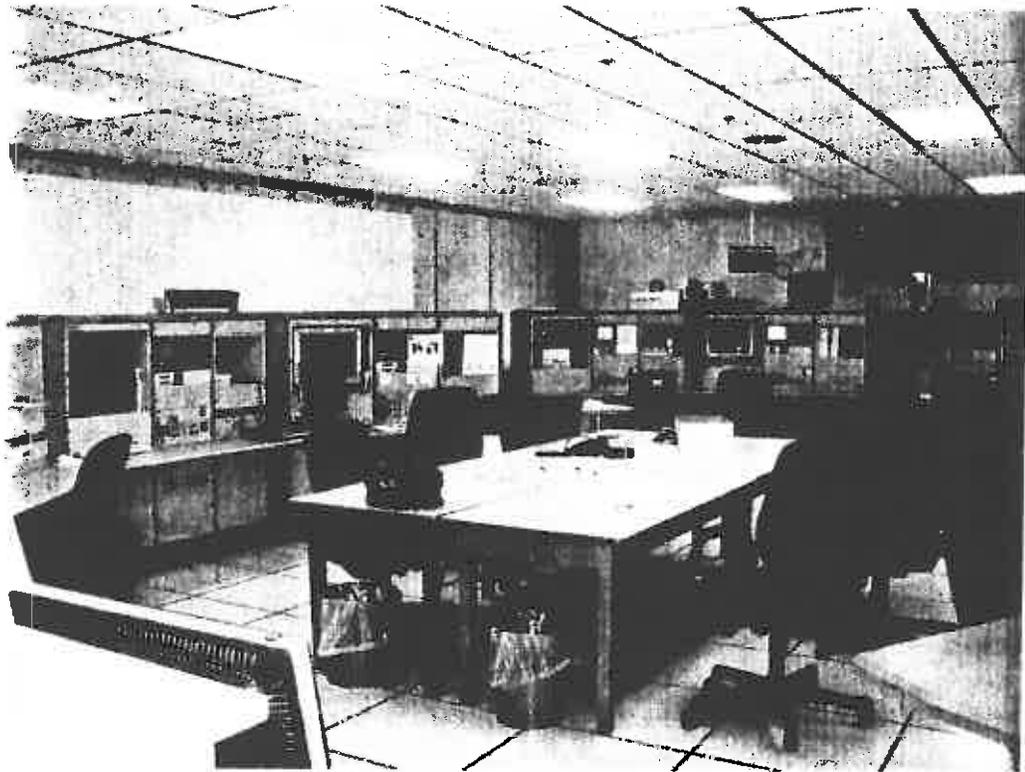
PHOTOGRAPHS



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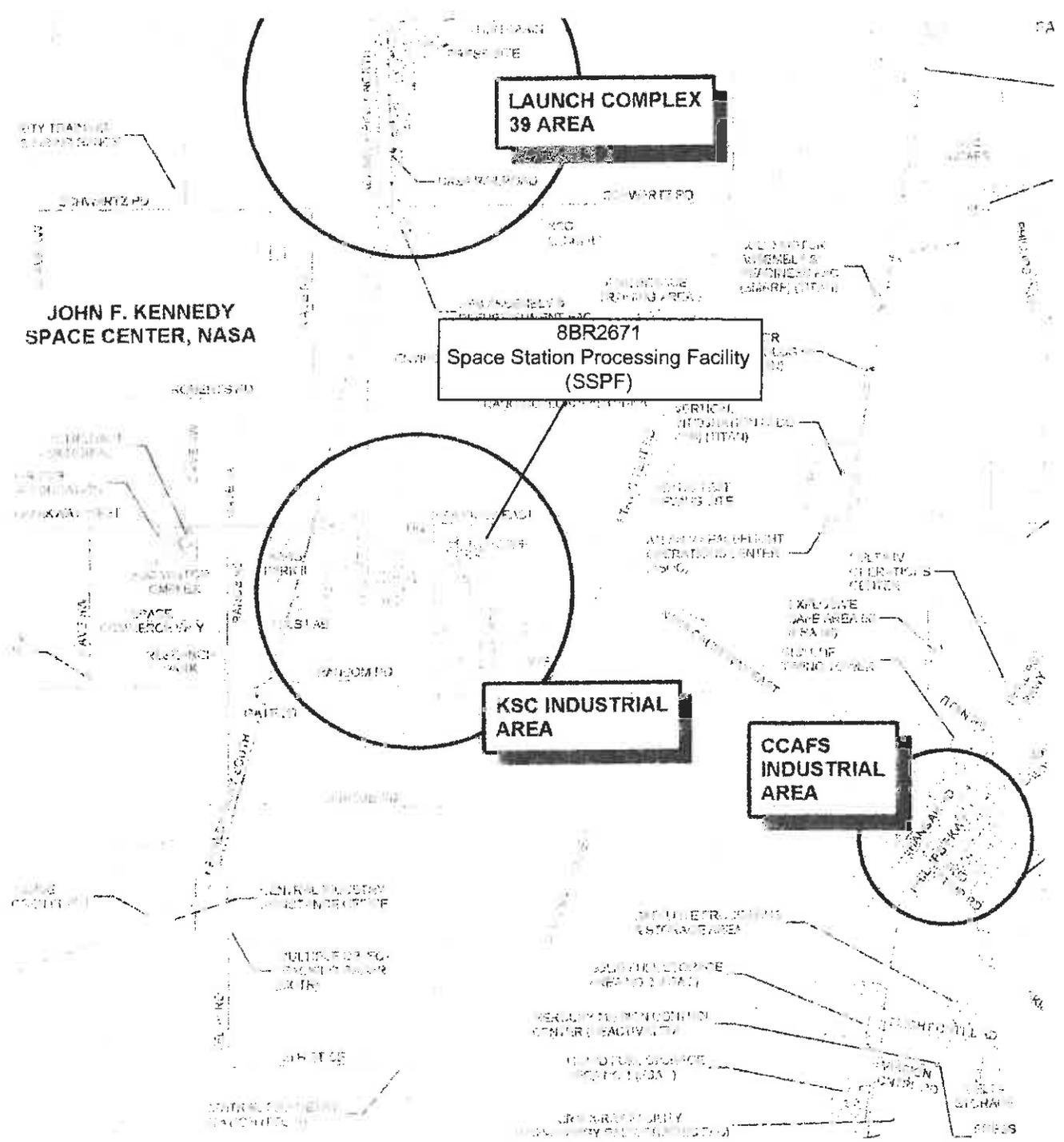


PHOTOGRAPHS



HISTORICAL STRUCTURE FORM

STREET OR PLAT MAP



USGS MAP

Township 23 South, Range 37 East, Section 4
Orsino, Fla. 1976

