

Mobile/Manufactured Home Study From Flood Damage In Mariner's Cove Mobile Home Park



**Bureau of Mobile Home and RV Construction
Division of Motor Vehicles
Department of Highway Safety and Motor Vehicles**

February 10, 2006

**Mobile/Manufactured Home Study From Flood Damage
In Mariner’s Cove Mobile Home Park**

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NOTE: LIMITATIONS OF THE REPORT

The purpose of this report is strictly for the use of the Florida Department of Highway Safety and Motor Vehicles to determine the effectiveness of current department administrative rules governing the installation of mobile/manufactured homes.

All statistics reported here are from a sample of mobile home parks and areas visited. In addition, due to debris, entry into some homes was not possible to make more specific determinations. Consequently, the statistics reported here are estimates. There may be differences between what is reported here and determinations by local building departments, insurance companies or other government agencies

When reporting the number of homes "destroyed or non-repairable" the totals represent homes with severe roof damage to the point of the roof being blown from the home, one or more exterior walls being separated from the home or water completely penetrating the unit.



State of Florida
DEPARTMENT OF
HIGHWAY SAFETY AND MOTOR VEHICLES
TALLAHASSEE, FLORIDA 32399-0500

FRED O. DICKINSON
Executive Director

DATE: February 10, 2006

TO: Phil Bergelt, Program Manager
Bureau of Mobile Home and RV Construction

FROM: Wayne Jordan, Community Assistance Consultant
Bureau of Mobile Home and RV Construction

SUBJECT: Manufactured Home study from flood damage in Mariner's Cove Mobile Home Park

On Friday, February 3, 2006, Pinellas County received as much as 15 inches of rain in a 24 hour time frame. At a minimum streets flooded, two businesses roofs collapsed as a result of the weight of the rain and the Cross Bayou canal (saltwater) flooded. The rain continued most of the day and at high tide the flooding was the worst in the park.

Adjoining the canal and in a low lying area is the Mariner's Cove Mobile Home Park located at 5796 Ulmerton Rd, Clearwater with approximately 96 homes. The flood waters penetrated inside approximately 25 homes from 1 inch to 12 inches. No homes were moved on their foundations as a result of the slow rising waters. The age of the majority of homes is early 70s (pre HUD) and the condition of the tie downs on these homes could be considered poor. The number of tie downs and anchors average six, three on each side. The installation of the anchors (back in the 70s) was incorrect with most being 12 inches to 18 inches out of the ground. Some of the homes had aircraft cable going over the roof, one home had 2 inch wide strapping and one home had ski rope over the roof tied to anchors.

Several homeowners said they had no insurance and will be repairing their homes. All homes appear to be repairable, however entry to most homes could not be achieved.

This two day study confirmed our other flood damaged homes in Florida: slow rising water does not displace manufactured homes when using dry stacked blocks as foundation piers. Even when the anchorage is poor, slow rising water penetrates inside the home through air conditioner registers, plumbing and electrical cut outs in the floor, dryer vent openings, etc.

NOTE

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Phil Bergelt

All statistics reported here are from the Mariner's Cove Mobile Home Park in Clearwater. In addition, entry into the mobile homes observed was not possible to make more specific determinations. Consequently, the statistics reported here are estimates. There may be differences between what is reported here and determinations by local building departments, insurance companies or other government agencies.

Mariner's Cove Mobile Home Park

5796 Ulmerton Road
Clearwater, Florida

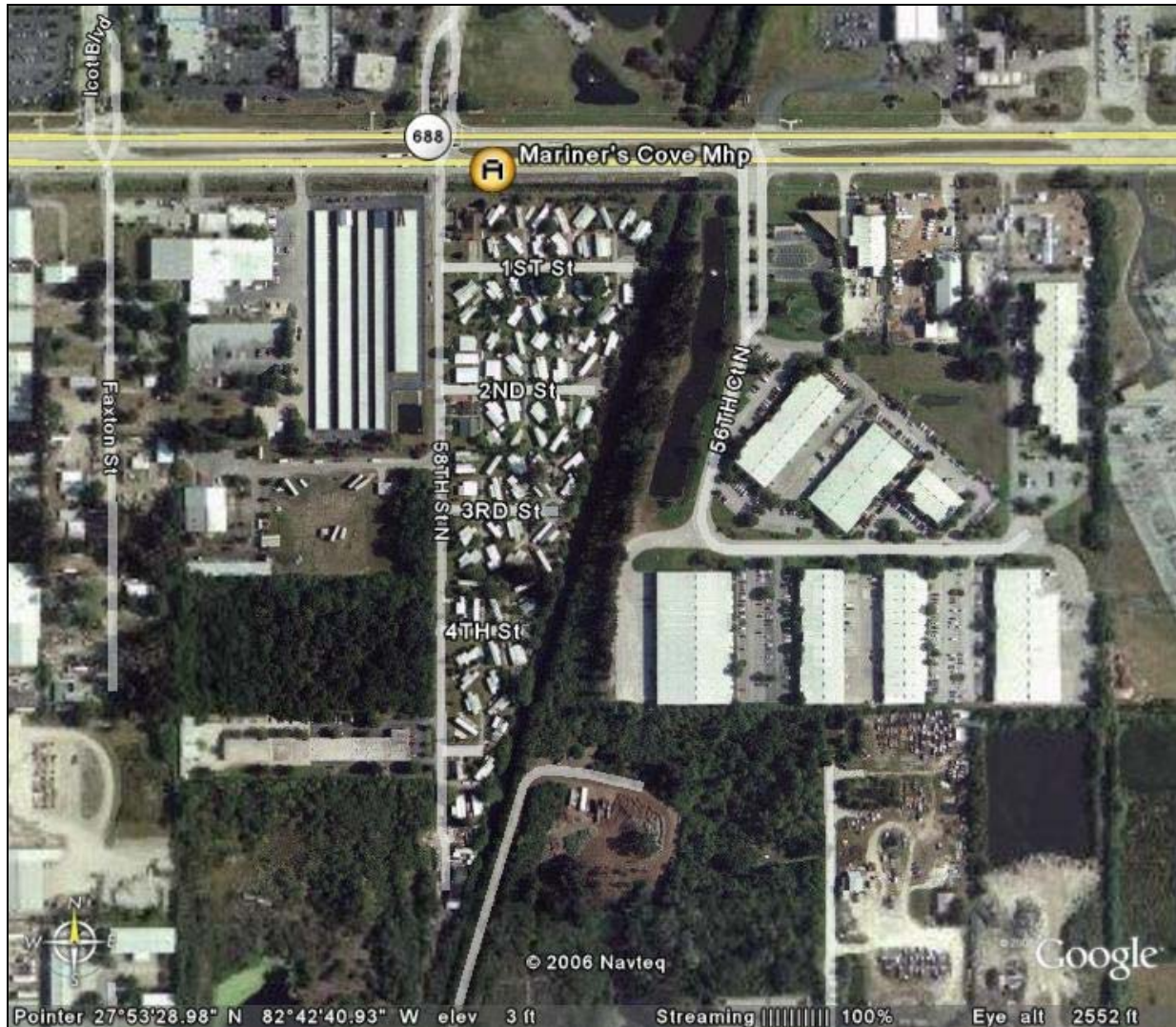
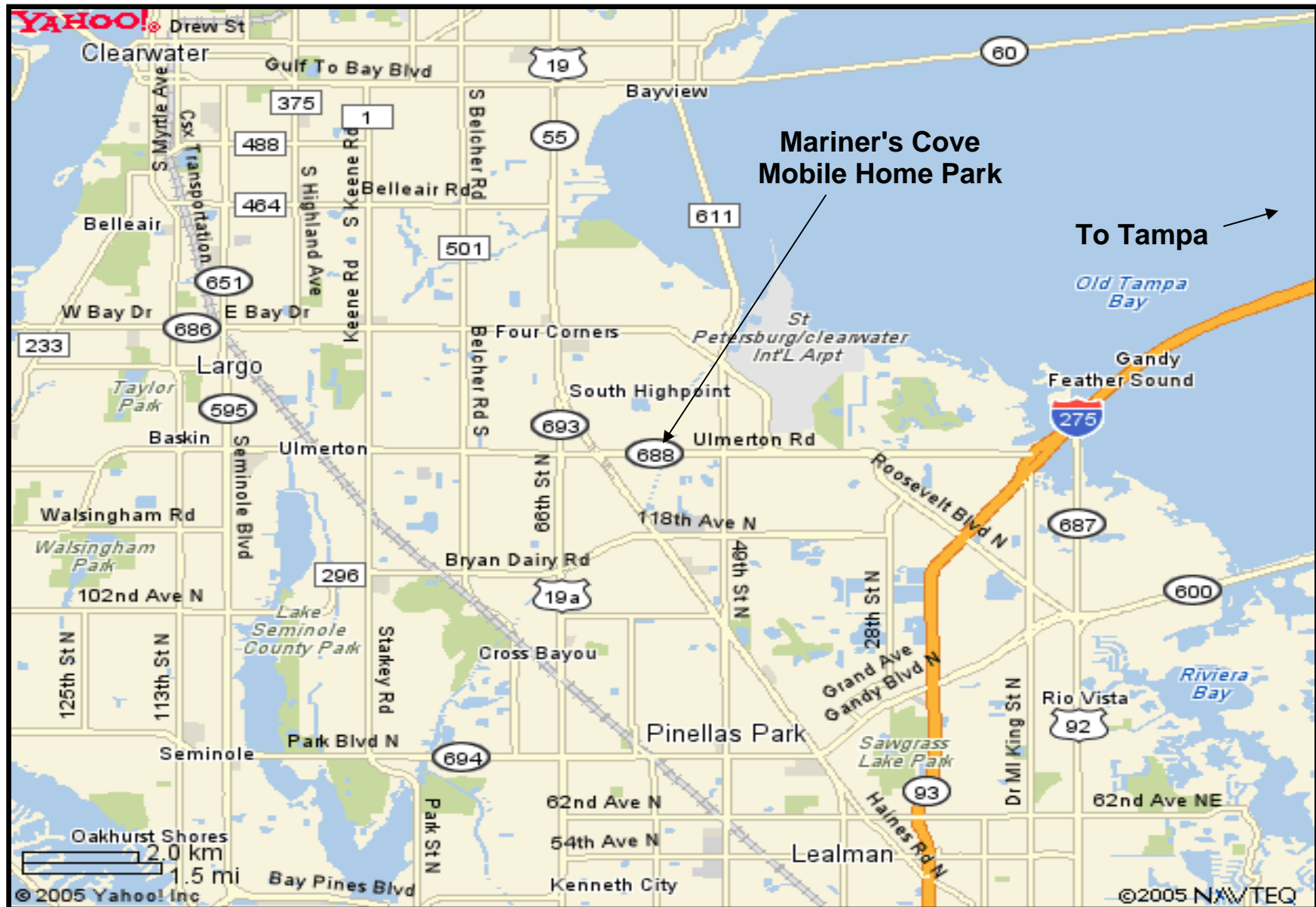


FIGURE 1

LOCATION OF MARINER'S COVE MOBILE HOME PARK



**PHOTOS OF FLOOD DAMAGE
TO MOBILE/MANUFACTURED HOMES
IN MARINER'S COVE
MOBILE HOME PARK**



1969 Delmar – no tiedowns with an 11 inch debris mark on the home and 3 inches inside the home.



Home on the canal that got 11 ½ inches of water inside. This home is a pre-HUD with 4 over the roof aircraft cables under the skin. The home did not move on its foundation.



19 inch debris mark, and 8 inches of water inside. Ski rope over the roof tie.



This home is on the canal. The anchor is installed 16 inches out of the ground, however, this home did not move on its foundation. 17 inch debris mark and 10 inches of water inside.

