



Florida Turnpike Enterprise Canal Protection Project



APPROXIMATE LENGTHS OF CABLE AND GUARDRAIL COMPLETED

Palm Beach County: 152,000 LF of Cable
and 102,000 LF of Guardrail

**TOTAL LENGTH OF CANAL
PROTECTED IN PB COUNTY IS
254,000 LF**



APPROXIMATE LENGTHS OF CABLE AND GUARDRAIL COMPLETED

St. Lucie County: 80,000 LF of Cable and
69,000 LF of Guardrail

**TOTAL LENGTH OF CANAL PROTECTED
IN ST. LUCIE COUNTY IS 149,000 LF**



APPROXIMATE LENGTHS OF CABLE AND GUARDRAIL COMPLETED

Miami-Dade County: 49,000 LF of
Cable and 34,000 LF of Guardrail

**TOTAL LENGTH OF CANAL
PROTECTED IN MIAMI-DADE
COUNTY IS 83,000 LF**



APPROXIMATE LENGTHS OF CABLE AND GUARDRAIL COMPLETED

**TOTAL LENGTH OF CANAL
PROTECTED FOR ALL 3 COUNTIES:
480,000 LF (91 MILES!)**



CRITERIA TO BE USED ON FLORIDA TURNPIKE HIGH TENSION CABLE BARRIER PROJECTS



CRITERIA FOR CABLE BARRIER

- Maximum post spacing of 16 feet
- Line post shall be the socket type in a concrete collar with a steel sleeve
- Minimum length of high tension cable barrier should not be less than 1000 feet



CRITERIA FOR CABLE BARRIER

A high tension cable barrier shall not be placed between 1 ft and 8 ft from the bottom of a ditch on the back slope

The maximum slope a high tension cable barrier shall be placed on is 1:6



CRITERIA FOR CABLE BARRIER

Design deflection = 1.5 times the dynamic deflection listed in the FHWA acceptance letter or the maximum deflection required by the manufacturer. Whichever is greater.

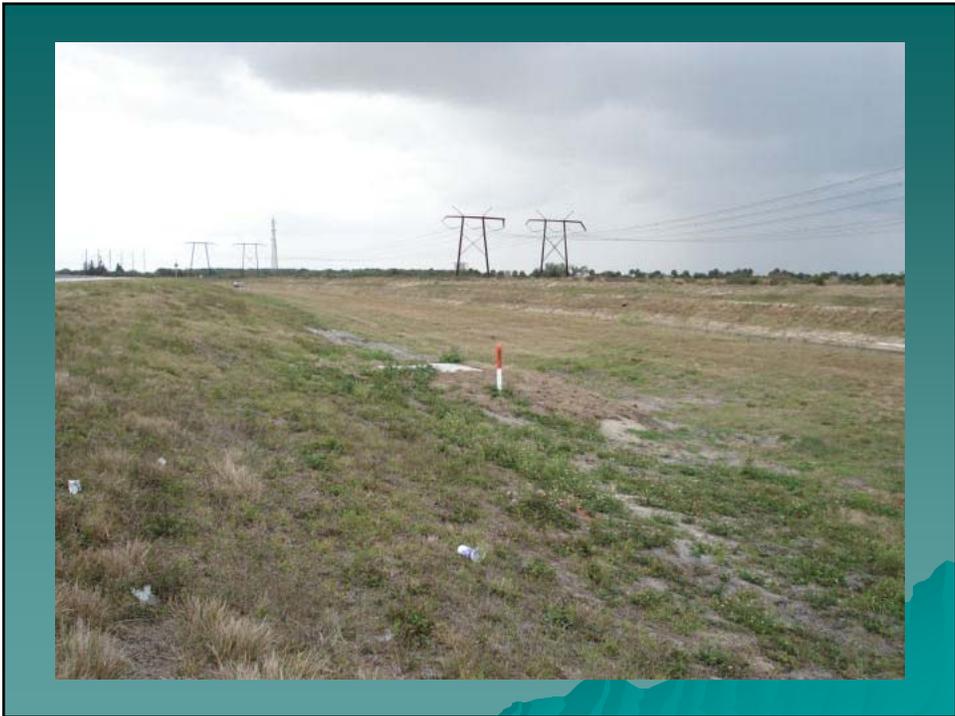
No roadside hazard shall be placed within the design deflection distance of a high tension cable barrier.



INSTALLATION OF NEW CABLE SYSTEM

It is critical that the full run be laid out and utilities are cleared before installation begins.

Installation of sockets and anchors can take 2-5 times the duration required to install and tension the cable.

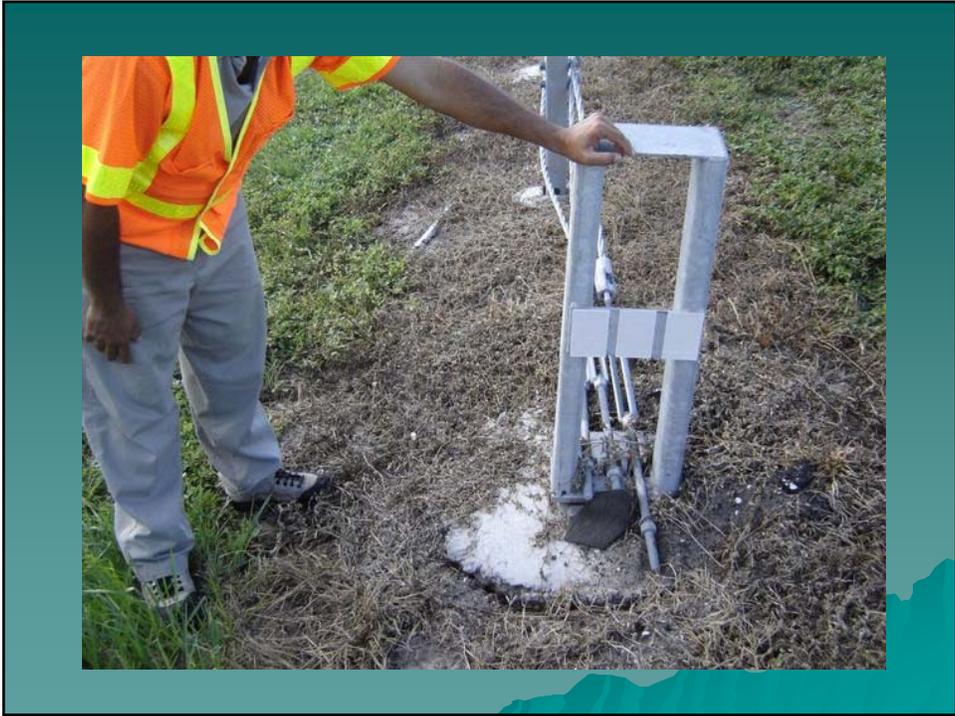




CABLE TENSIONING

- Tension Testing
- Installation Testing
 - Initial Record Test
 - Test Period







MAINTENANCE OF CABLE BARRIER

Concrete Encased Post Sockets have proven highly effective in reducing the work effort required in repairs.

A typical hit, that does not affect an Anchor, can be repaired by a 2-3 man crew and generally requires the replacement of 2-8 posts and associated hardware.

Cable tension should be tested following a hit, but re-tensioning typically is not required.







CABLE BARRIER AS IT IMPACTS MAINTENANCE

Mowing & Equipment Access

Clearing of Brush and Trees, both to provide access behind and to maintain deflection zone.

Deflection Zone and Access Requirements can have a significant impact on the location of signs.







CABLE BARRIER AS IT IMPACTS FUTURE CONSTRUCTION PROJECTS

When installed along the outside shoulder, Cable and it's required deflection zone can have a significant impact on a construction ability to stage equipment and material in the immediate work area.







EDUCATING OTHERS ON THE FUNCTION OF CABLE BARRIER

Police

Proper function

Notification for repairs

Tow Trucks & Fire Rescue

Access Through





MAINTENANCE CONTRACTORS & PERMITS

Access through (not desirable)

Storing Materials/Debris Behind
Deflection Criteria is critical
Double Handling



ACCIDENT ANALYSIS









Summary