



## 2015 Pilot Projects



Stormdrain box valves



Warning signs and delineators



Earthen Berm



Flood barriers



Stormwater Plugs

## Improvements Since 2015 Delmar



King Tide  
September 28, 2015



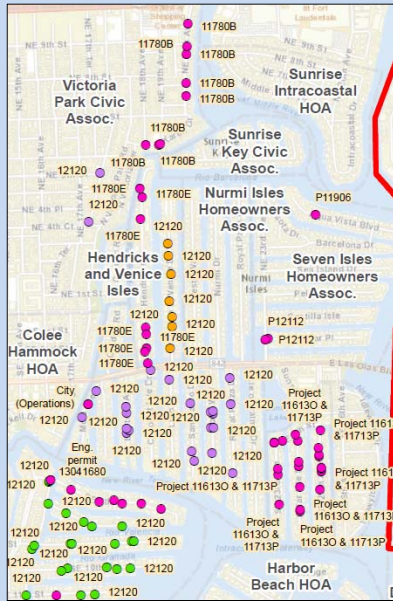
King Tide  
September 29, 2015

New Tidal Valve



CITY OF FORT LAUDERDALE

## Retrofitting to Reduce Tidal Flooding



**116 Tidal Valves Installed  
27 pending**

### LEGEND

- Tidal Valve 2010-2016
- Venice Isles Tidal Valves 2016
- Rio Vista Tidal Valves 2016
- Las Olas Tidal Valves 2016
- Tidal Valves 2016-17
- City Limits

## Improvements Since 2015 NE 11th Court



**King Tide  
September 2015**



**King Tide  
October 2016**



**CITY OF FORT LAUDERDALE**

## Improvements Since 2015

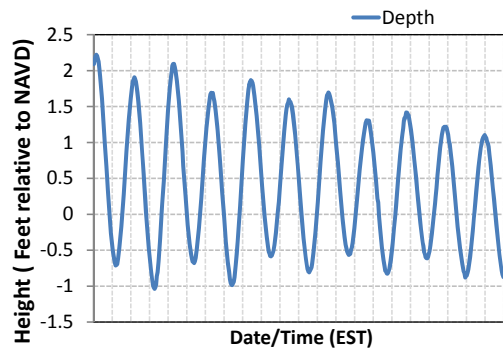
### Las Olas Blvd



CITY OF FORT LAUDERDALE

## Improvements Since 2015

Tide Measurements (10/18/16 - 10/23/16)



CITY OF FORT LAUDERDALE



Tidal Flooding on Flamingo Drive 2015

### *Improvements Since 2015 – Raised Electrical Panels for Pumps*





CITY OF FORT LAUDERDALE

### *Improvements Since 2015*



#### *Adopted Seawall Ordinance ULDR Section 47-19.3*

- Sets min and max seawall elevations
- Requires maintaining seawalls in good repair
- Requires owners to prevent tidal waters entering their property from impacting others



CITY OF FORT LAUDERDALE

## ***Breached Seawalls During King Tides***

### **Private Owned Seawalls (24 locations)**

Harbor Inlet      Rio Vista  
Navaro Isles      Las Olas Isles  
Hendricks Isles      Riviera Isles  
Coral Ridge  
Intra-Coastal Waterway at 32d St

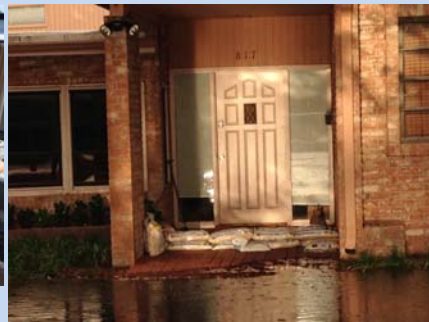
### **City Owned Seawalls (6 locations)**

Las Olas Blvd  
    Lido to San Marco Dr (100 ft)  
    Coral Way to Las Olas Isles (100 ft)  
Mola Dr (40 ft)  
Isles of Palm Dr (888 ft)  
Cordova Rd (2200 ft)  
Riviera Isles (160 ft)  
Rio Vista Blvd (400 ft)

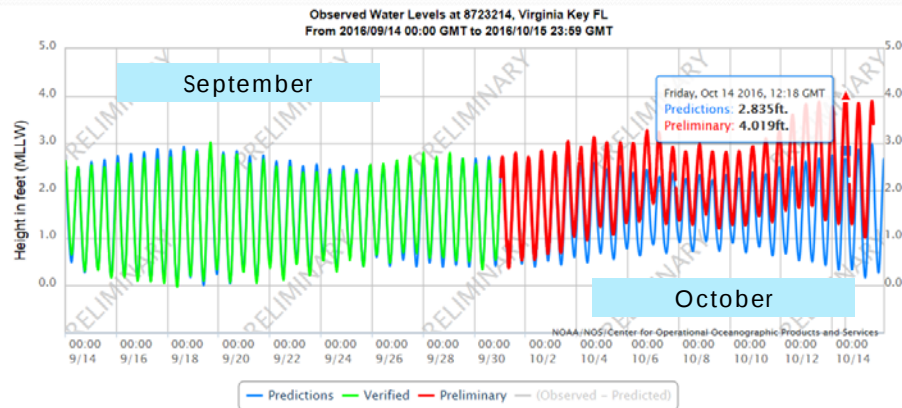


**CITY OF FORT LAUDERDALE**  
**PUBLIC WORKS DEPARTMENT**

## ***Neighbor Investments***



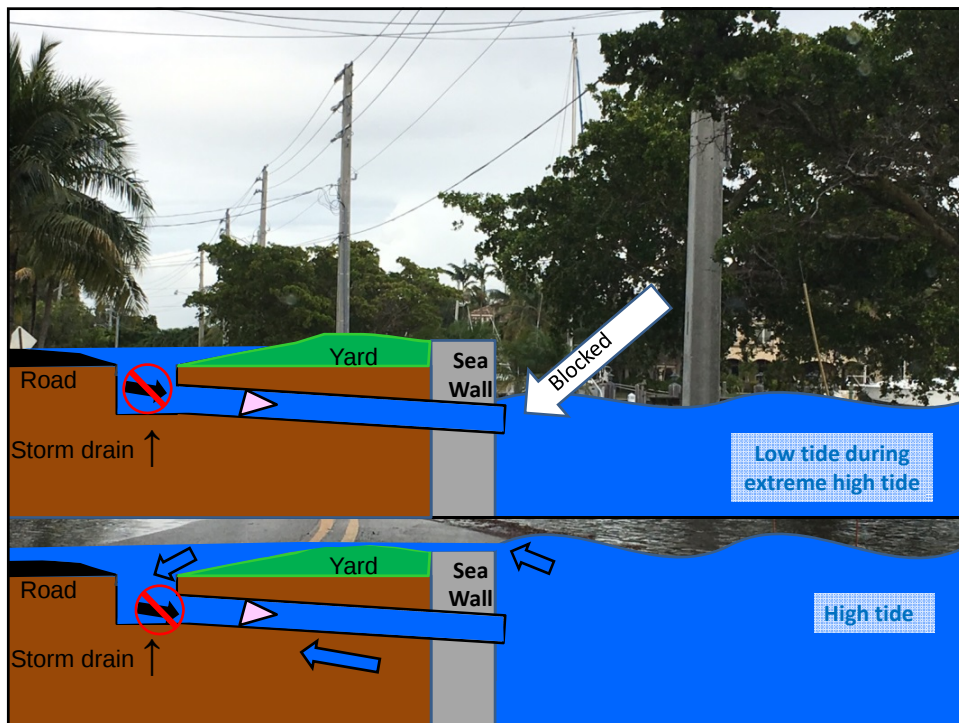
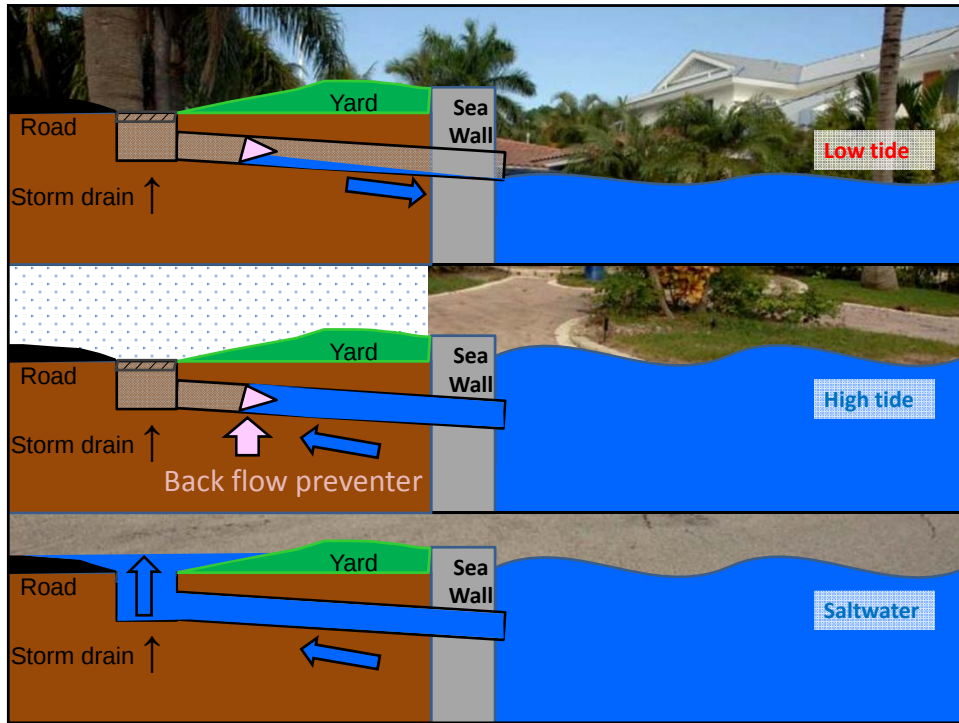
## King Tide in 2016

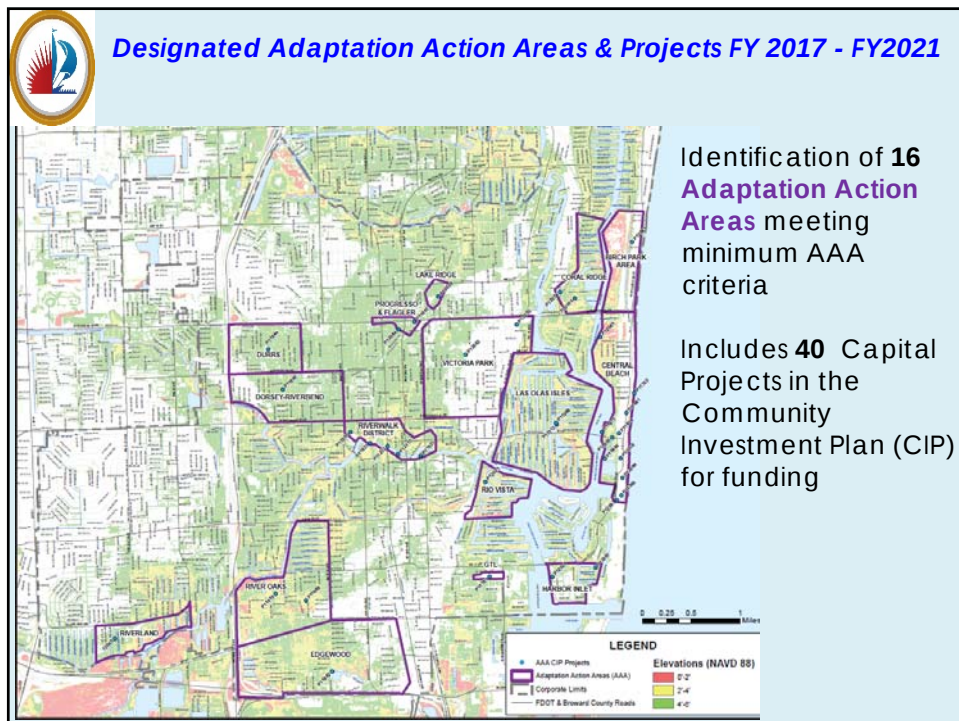


<http://tidesandcurrents.noaa.gov/waterlevels.html>



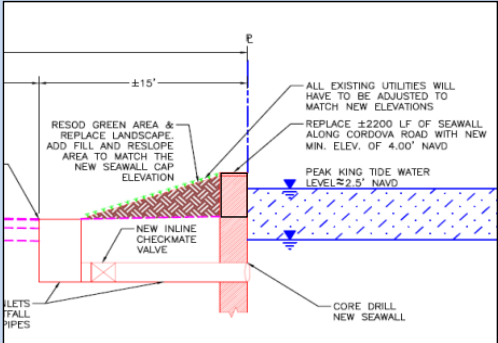
**CITY OF FORT LAUDERDALE**  
PUBLIC WORKS DEPARTMENT







**Existing**



**Example:**  
**Cordova Road**

**Estimated Project Cost**  
**2200 LF New Seawall**

**\$ 4,946,580**

**Bringing Seawall to 4.0 ft NAVD**

**CITY OF FORT LAUDERDALE**

**» WE ARE READY**

*We are a resilient and safe coastal community.*



**Questions?**



**Public Works Department**