

# DAVID PERKES - GULF COAST COMMUNITY DESIGN STUDIO







## MISSISSIPPI GULF COAST



April 12, 2005



August 31, 2005



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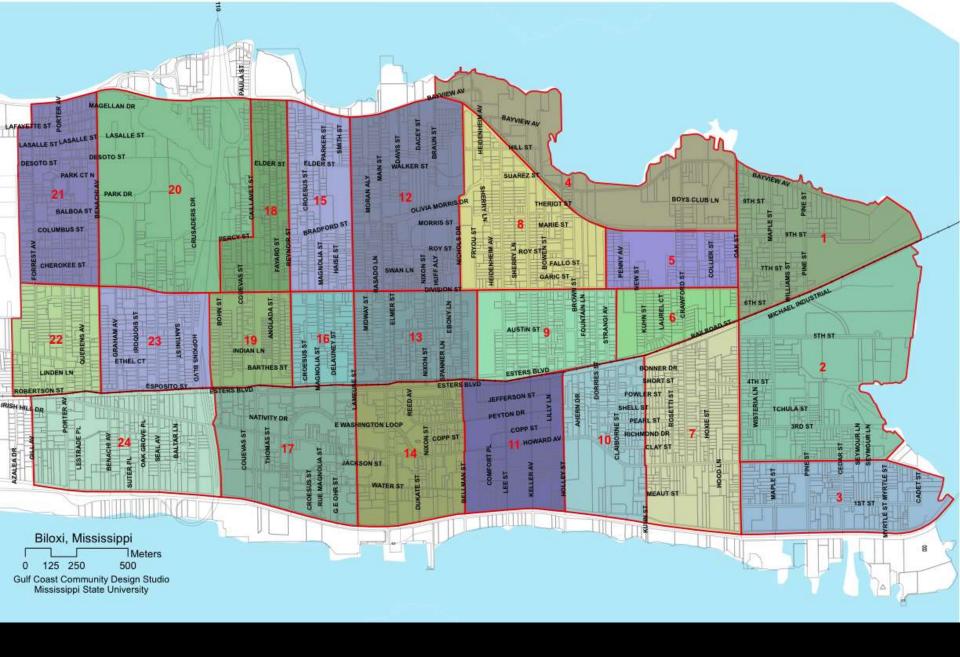
"Throughout the Renewal Forum and the work of the Commission, South Mississippi has been referred to as a "clean slate," providing an enormous opportunity to rebuild in a way that optimizes the natural beauty of the Gulf Coast. Nowhere is this statement more accurate than with regard to the Highway 90 corridor. Hurricane Katrina's winds and flood waters destroyed most, if not all, of the existing structures along this corridor. From Waveland to Pascagoula, the structural remains can be described as a fresh canvas awaiting a skilled artist's creativity."

Governor's Commission on Recovery, Rebuilding and Renewal, *After Katrina: Building Back Better than Ever* (Jackson: Office of the Governor, 2005), 21.

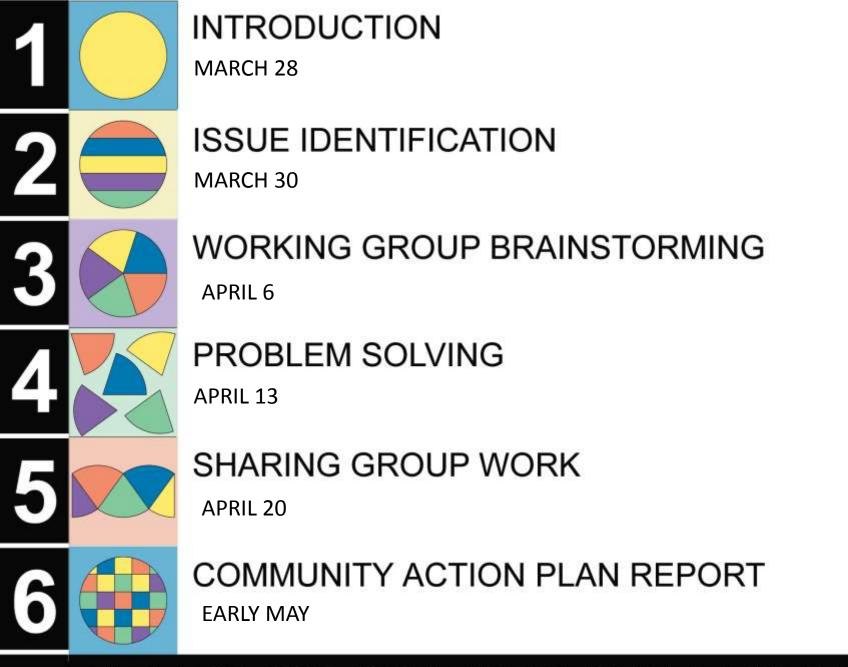






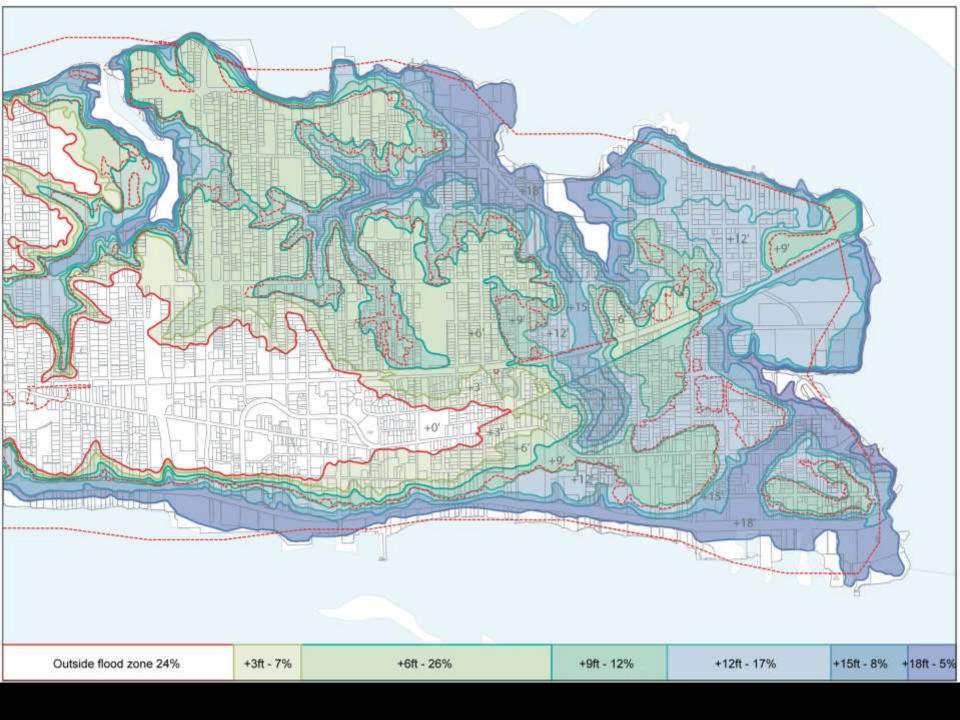


## **EAST BILOXI RELIEF AND COORDINATION GRIDS**



## EAST BILOXI COMMUNITY MEETINGS



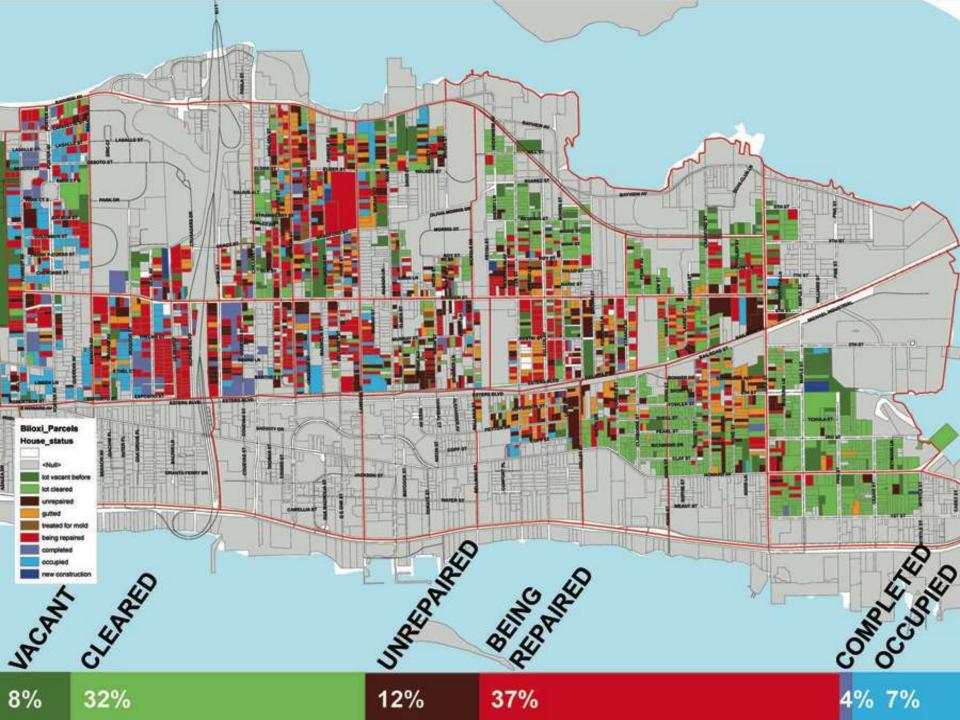


### FACTORS FOR REBUILDING



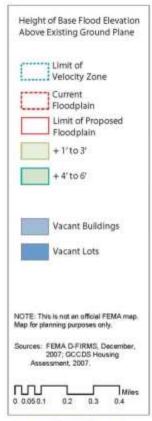




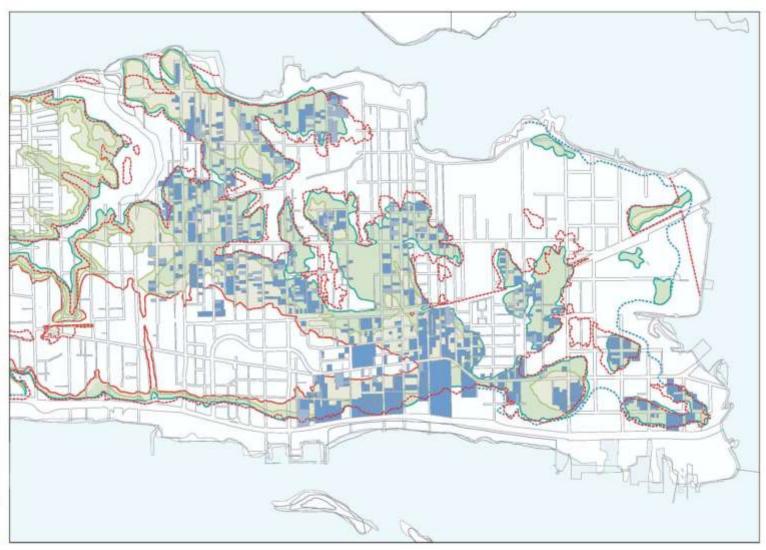


Potential Infill Lots. Vacant Lots Requiring BFE of 6'-0" or Less.

#### September 2008





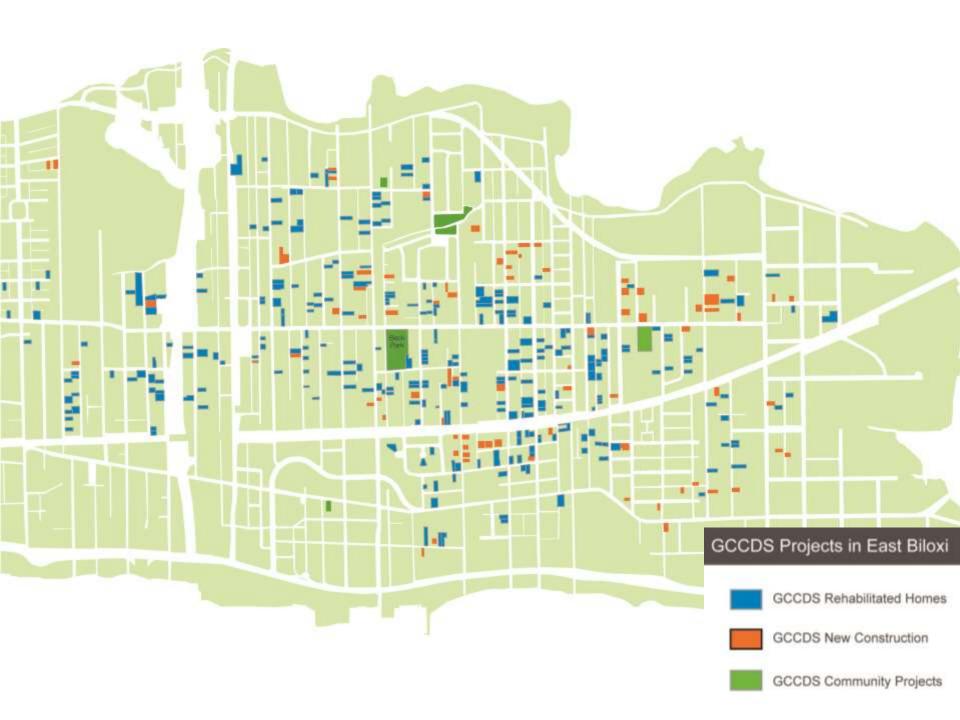










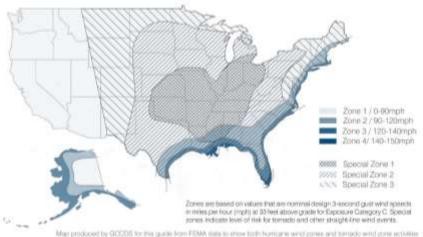




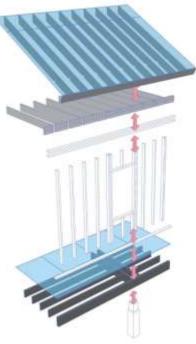
# RESILIENT HOME BUILDING GUIDE

### HIGH WIND WOOD FRAME CONSTRUCTION

Wind Zone Map































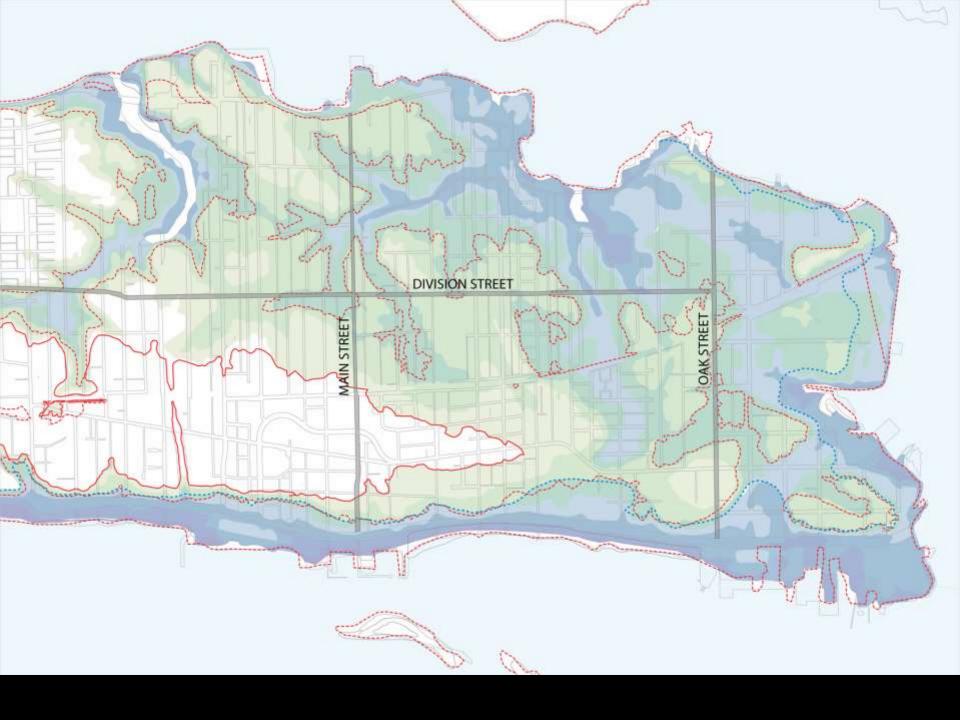






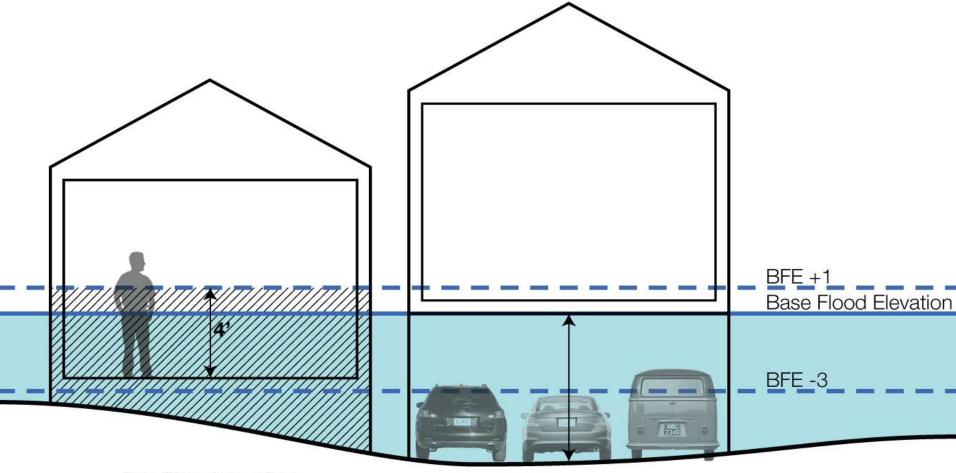








## DRY VS. WET FLOODPROOFING



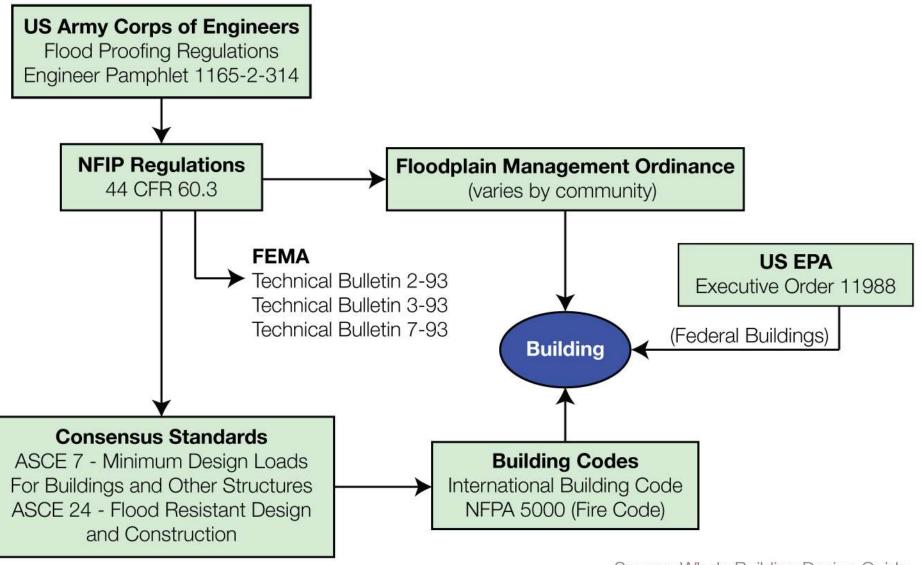
### **Dry Floodproofing**

Not recommended more than 3' below the BFE. Must extend 1' above the BFE to meet flood insurance requirements.

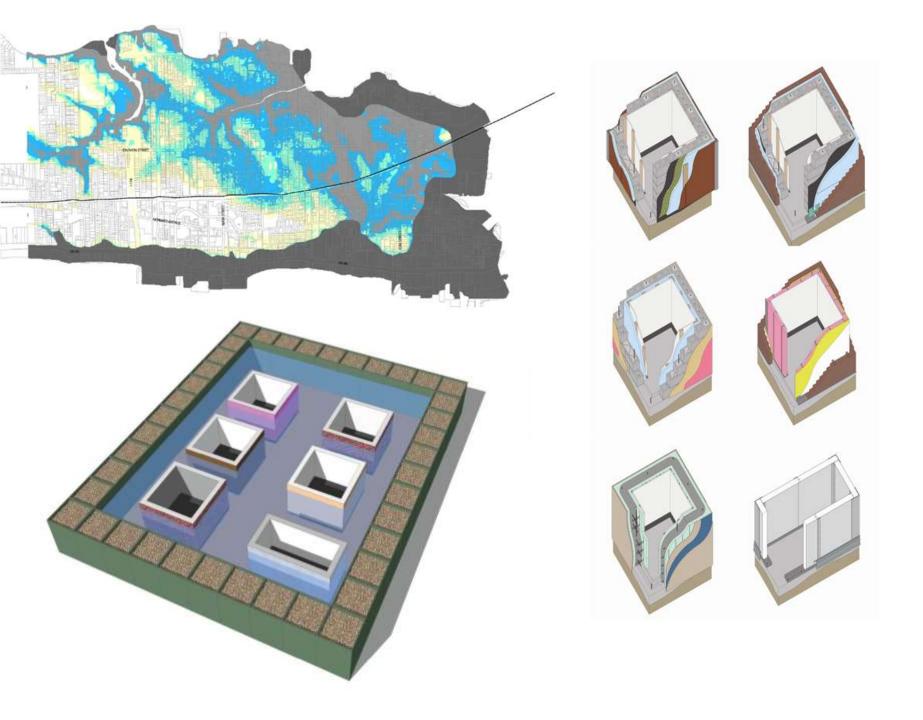
### Wet Floodproofing

For parking, building access, and limited storage only.
Other interior spaces must be elevated or dry floodproofed.

## OUTLINE OF FLOODPROOFING REGULATIONS

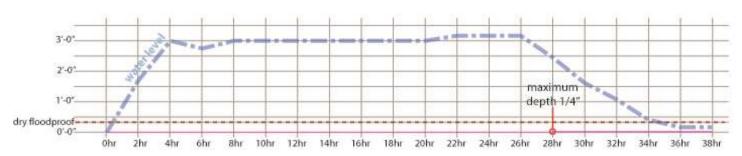


Source: Whole Building Design Guide. http://www.wbdg.org/resources/env\_flood.php

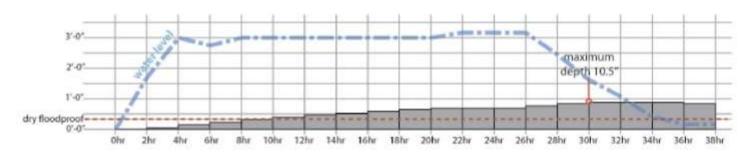




maximum depth 36"



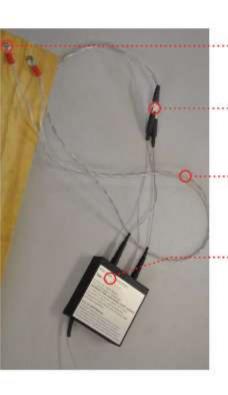
interior water depths during flood simulation 2: sealed block test pod a CMU wall coated w/ polymer resin layered exterior. GCCDS April 6th 2011



interior water depths during flood simulation 2: ICF test pod

GCCDS April 6th 2011

an insulated concrete formwork wall w/ a stucco finish.



#### ······ sensors

dry-wall screws pictured. Longer probes are usefull for measuring wood. Proper placement is key to accurate readings.

### banana clips

attach to probes or extension wires as shown here

#### ..... extension wire

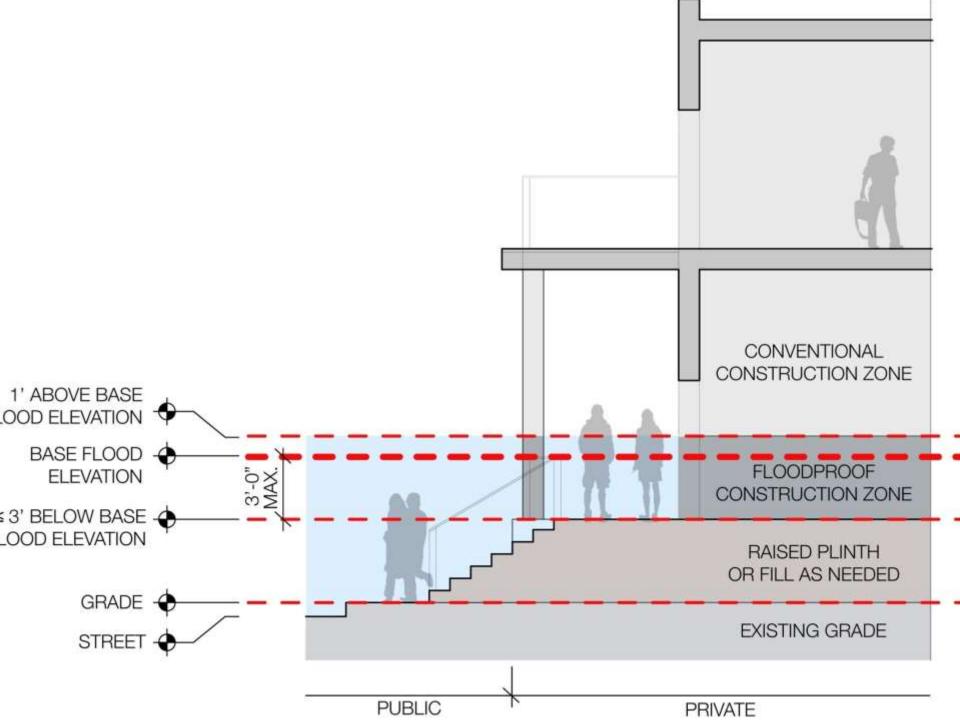
length does not effect or measurement

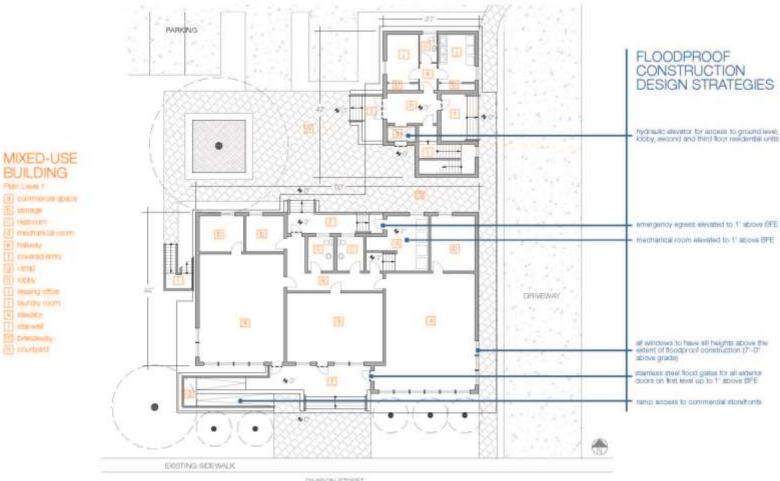
#### wireless transmitter

collects and transmits data. This sensor collects moisture content information by measuring resistance. Other sensor can measure moisture, temperature, and humidity.

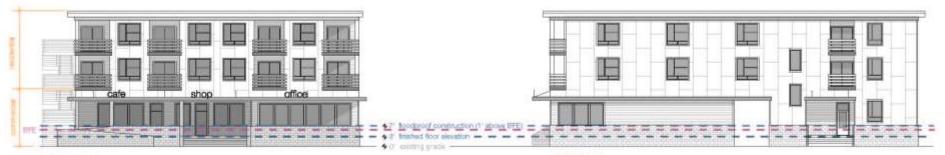
# Sensor Equipment Measuring and Transmitting all equipment from Lignomat U.S.A.







DIVISION STREET



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K COUNCY











"The many people who designed and built my house are in my prayers every night. Bless them and their families."

**Edward Parker**