



# Concrete Coalition



## PRE- 1980 Concrete Building Survey

# Pre – 1980 Concrete Buildings

## City of Long Beach Building Survey



# Pre – 1980 Concrete Buildings

## Overview:

1. Select City
2. Map the City (GoogleEarth)
3. City Zoning Maps
4. Walk / Drive an Area of the City

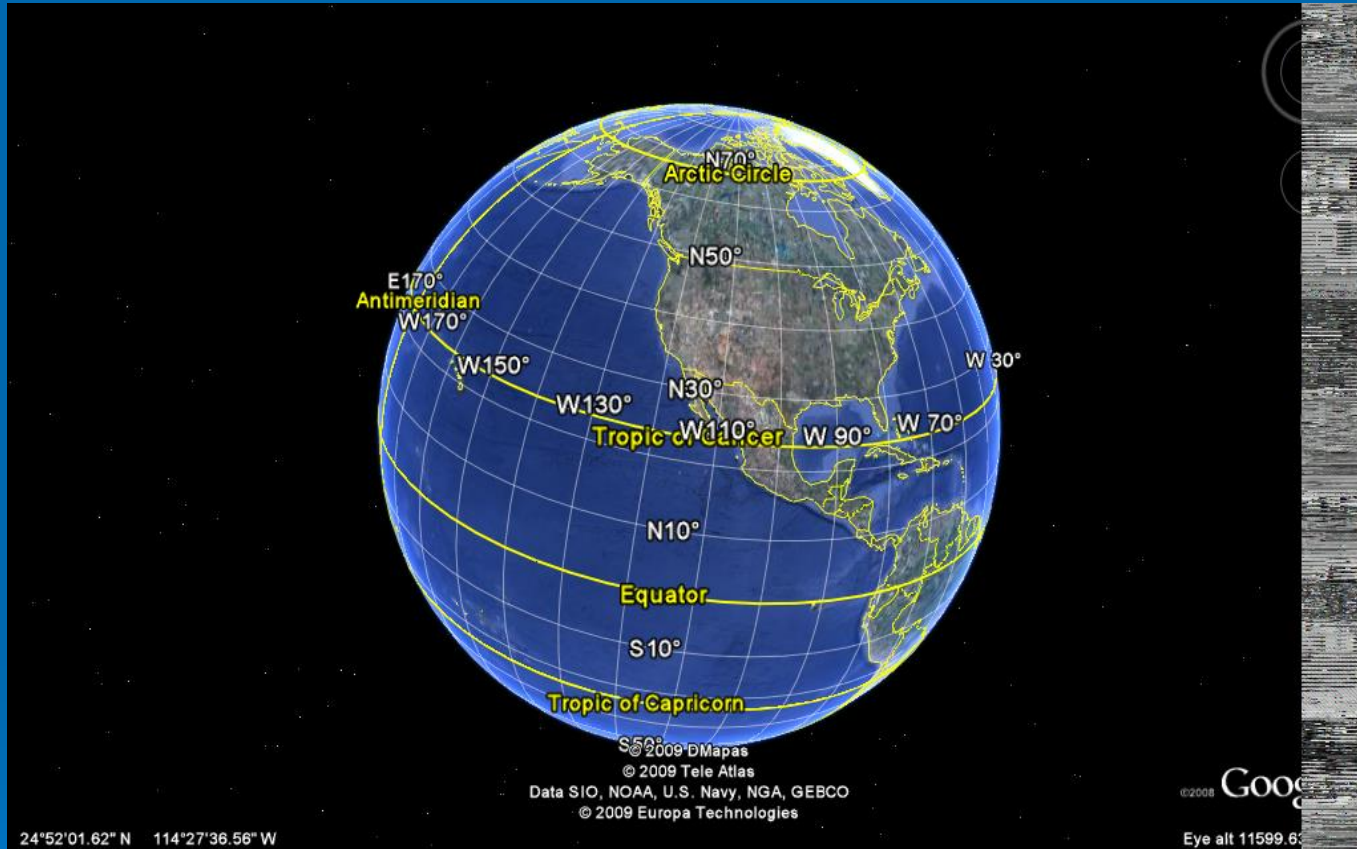


# Pre – 1980 Concrete Buildings

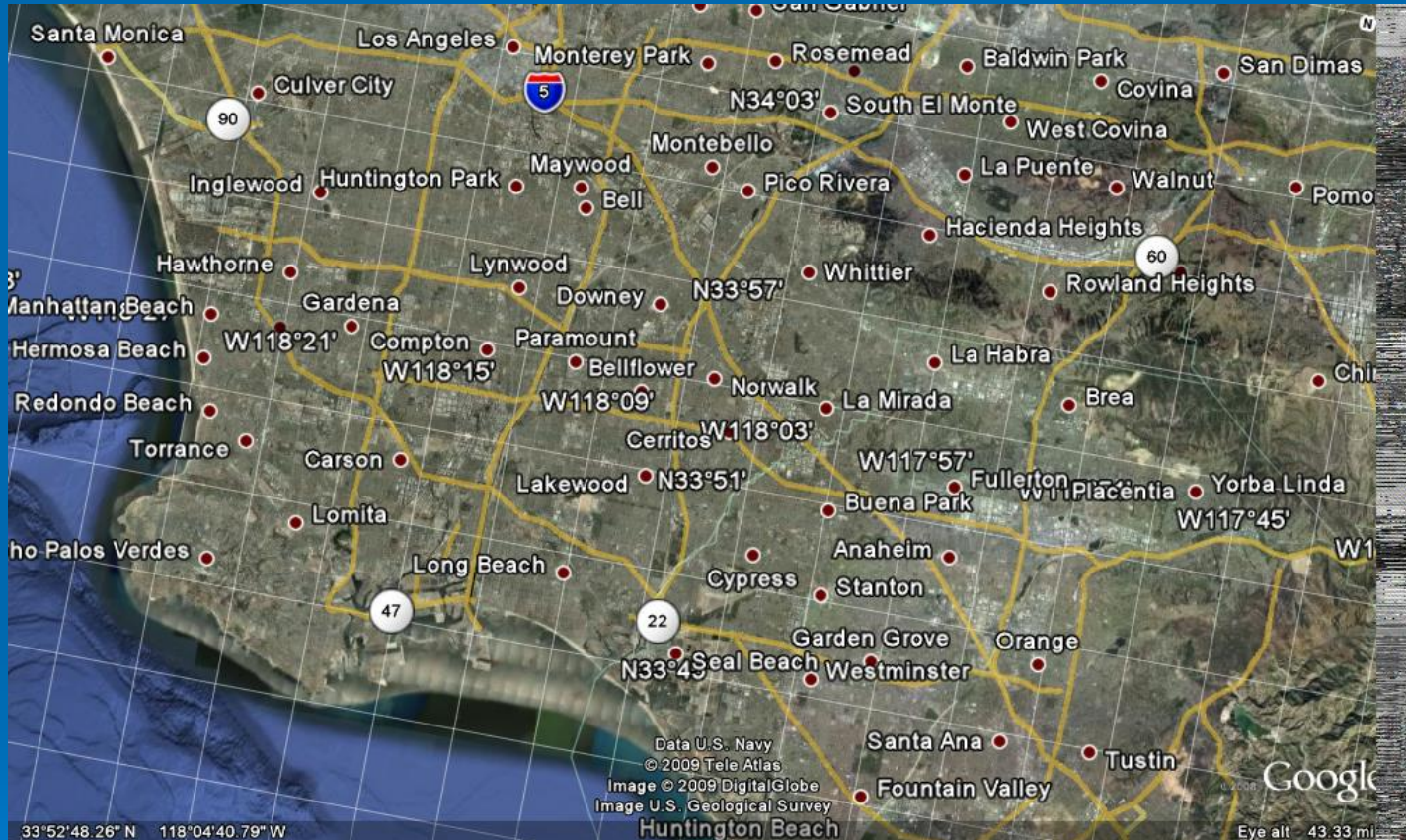
1. Select City : Long Beach
2. How Determine Extent of the City, find the boundaries of the City?
  - Map the City (GoogleEarth)



# Pre – 1980 Concrete Buildings

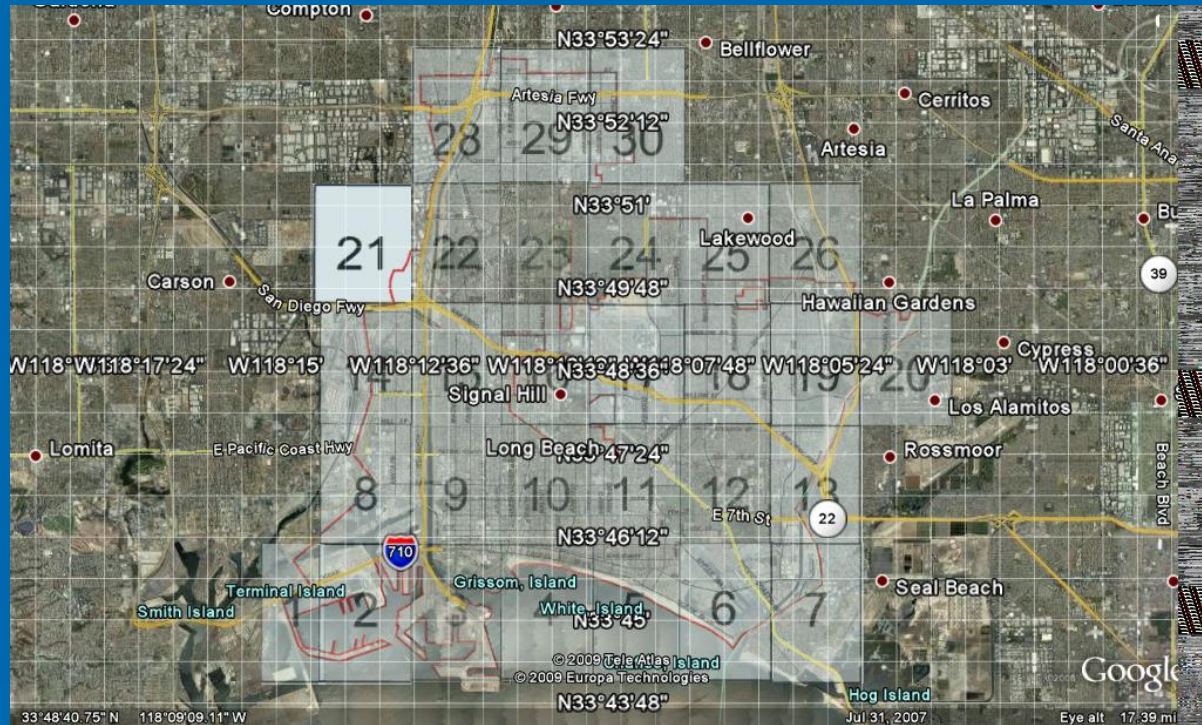


# Pre – 1980 Concrete Buildings





# Pre – 1980 Concrete Buildings

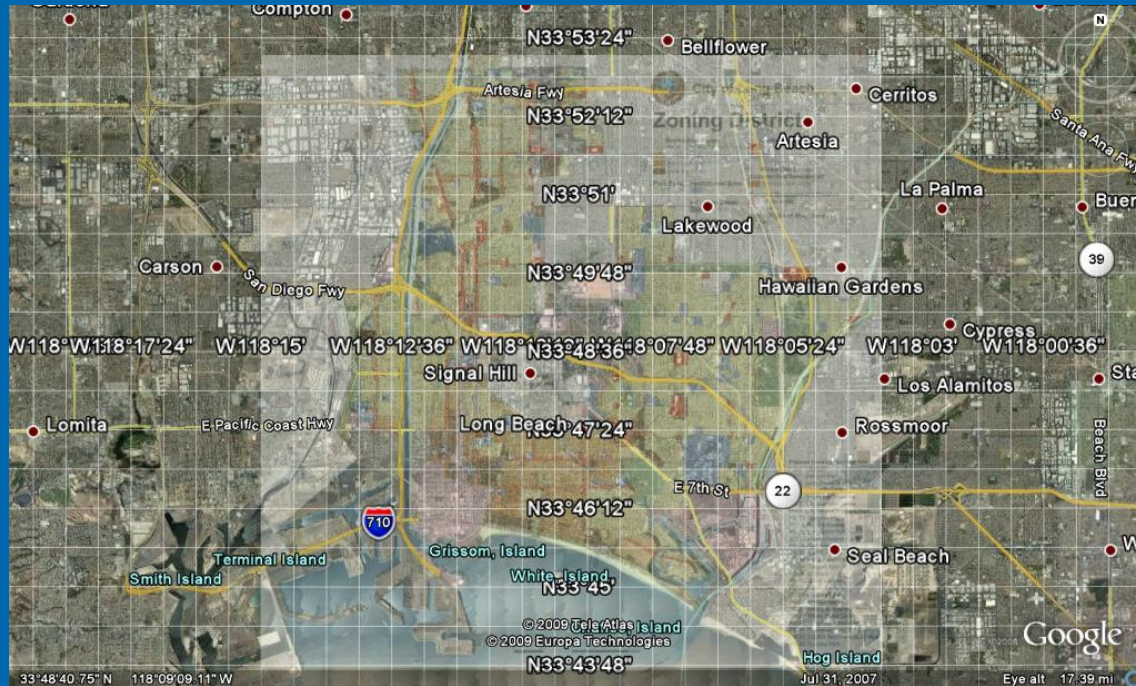


GoogleEarth allows you to insert JPEGs, GIF's as an “OVERLAY” and control transparency of image





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GoogleEarth allows you to stretch/scale the JPEGs, GIF's as an "OVERLAY" so you can match scales



# Pre – 1980 Concrete Buildings



Google Earth allows you to mark individual buildings using overlays. Can create color shapes in “Paint” and save as a JPEG file/image and then insert as an “Overlay” in Google Earth



# Pre – 1980 Concrete Buildings

City Land Usage (By Zoning)	Percentage	Area (square miles)
Residential (single Family)	40%	20.00
Residential (2units or more multi - Family)	15%	7.50
Commercial	7%	3.50
Mixed Use (Commerical / Residential)	1%	0.50
Retail	7%	3.50
Industrial:	16%	8.00
Government	1%	0.50
Medical	2%	1.00
Education / Institutional - Schools	2%	1.00
Undeveloped Land	3%	1.50
Recreation Parkland / beaches	6%	3.00
Other:		
if other, describe:		
TOTAL (should equal 100%):	100%	50.00

Excel File: Need area of city – Long Beach = 50 square Miles

Zone Maps: Help identify where to look in the city – eliminate

single family home districts



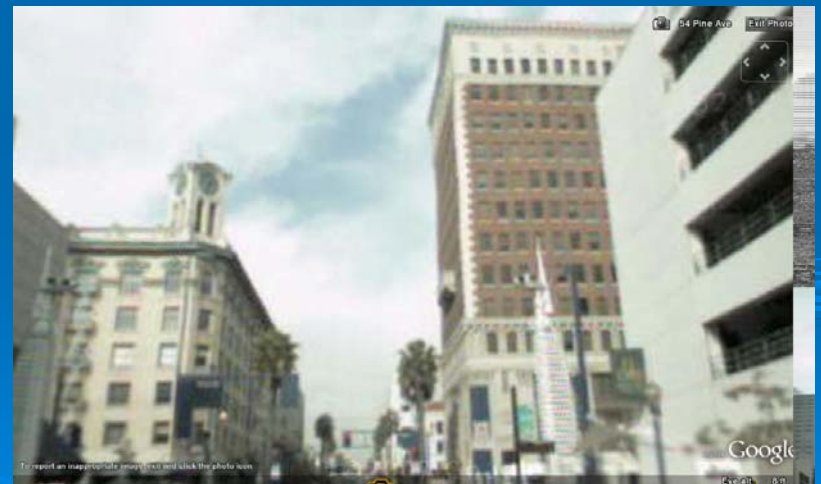
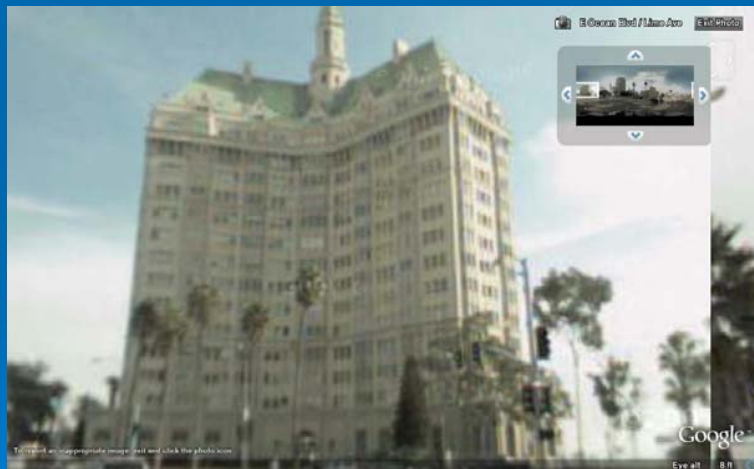
# Pre – 1980 Concrete Buildings

Type of Building	Number of buildings (Built prior to 1980)	Building Density (Buildings / square mile)
Residential (Single family attached & detached, Mobile Home, boat, RV)	68,650	$68,650 / 20 = 3,433$
Residential (Multi-Family complex or towers)	78,121	$78,121 / 7.5 = 10,416$
Commercial	3,500	$3,500 / 3.5 = 1000$
Retail	3,500	$3,500 / 3.5 = 1000$
Mixed Use (Commercial / Retail / Residential)	150	
Industrial / Manufacturing / Shipping	4,000	$4,000 / 8.0 = 500$
Government / Public Centers / Parkland / Airport	450	
Hospital & Medical Office / Convelesant	75	
Educational	770	
(Total # pre-1980 Bldgs)	<b>159,216</b>	

Excel File: US Census – Has Residential Information only, does not have commercial buildings. Can make counts with Google Earth and estimate Density of some building types



# Pre – 1980 Concrete Buildings



**Concrete Coalition**

ERI PEER ATC

The Concrete Coalition logo features a stylized grey building icon above the text "Concrete Coalition". Below the main logo are three partner logos: ERI (a red square with white letters), PEER (a black and white geometric design), and ATC (a yellow and black design with a crane).