

6-foot sea level rise

A1FI+ 2115



sea level infiltration  
Sea level will rise 6 feet above the 2000 level, at which point 34% of the 2000 peninsula footprint will be under water unless protective measures are taken.

order-of-magnitude 3

At 6' above current sea level, water will be near the elevation of the historic Battery and White Point Gardens. The peninsula will be more like today's Venice than Charleston of 2007.

issues

- SHORELINES: Rising water will encroach all shores of the peninsula.
- STORM EVENTS: Storms and hurricanes will become increasingly severe, dropping more water on the peninsula.
- GROUNDWATER LEVEL: At this point, the water table will be so high that below grade water retention will be impossible, unless in sealed tanks.
- ROADWAYS: All roads will be disrupted during high tide/heavy storm events, threatening emergency service, evacuation, and access to the medical complex.
- RESIDENTIAL: Many residential and commercial areas will be displaced, unless seawalls are put in place.

principles-canal city

Accept water encroachment due to sea level rise.

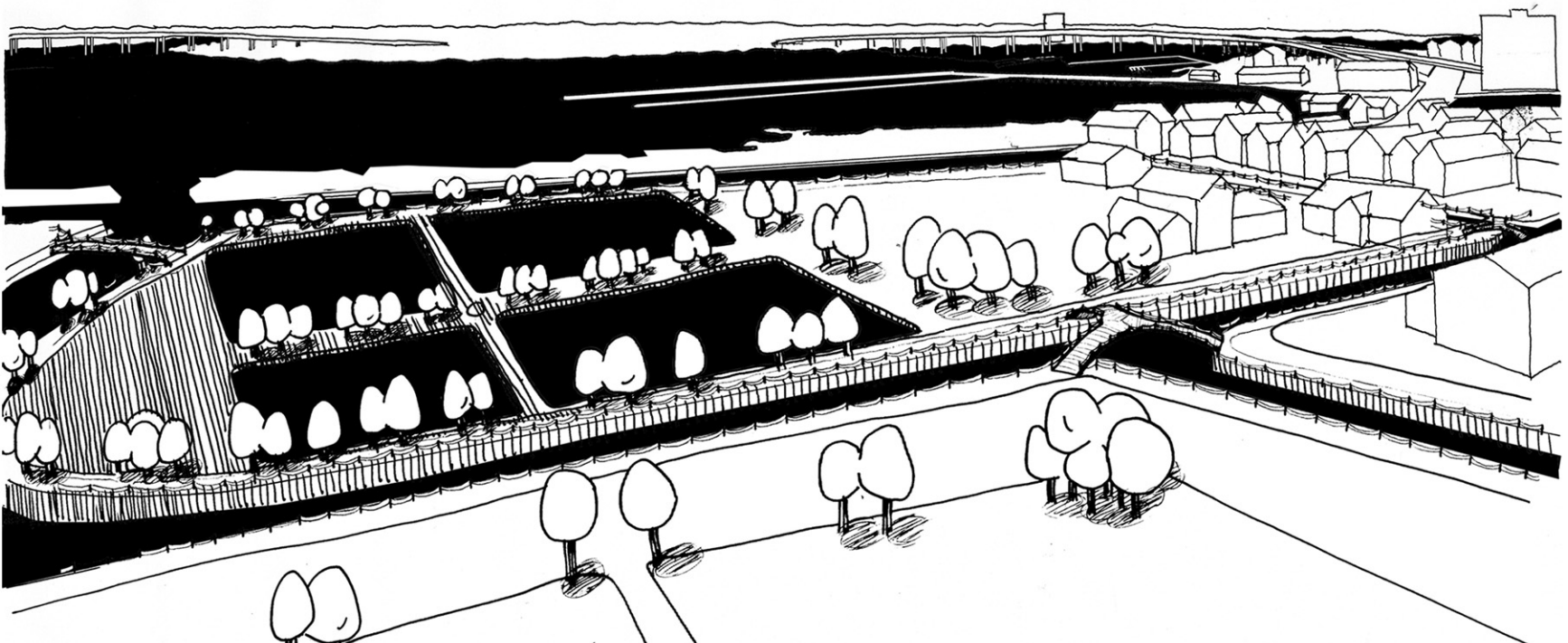
- CANAL SYSTEM: In Phase I, convert streets in the lower southwest corner of the peninsula into canals and prohibit vehicular traffic in this quadrant. Systematically raise the grade elevation of this district to be similar to the King/Meeting street core. (See M4-canal city for Phase II.)
- TRANSPORT: Begin transformation to a non-motorized central city, like Venice, based on tourism.
- INFILL: Former retention parks will be ineffective with groundwater at this elevation and can be converted to developable land.
- SEAWALLS: Implement principles for SeaWall City, too, in areas outside of canal zone.

Manage internal stormwater through canal system.

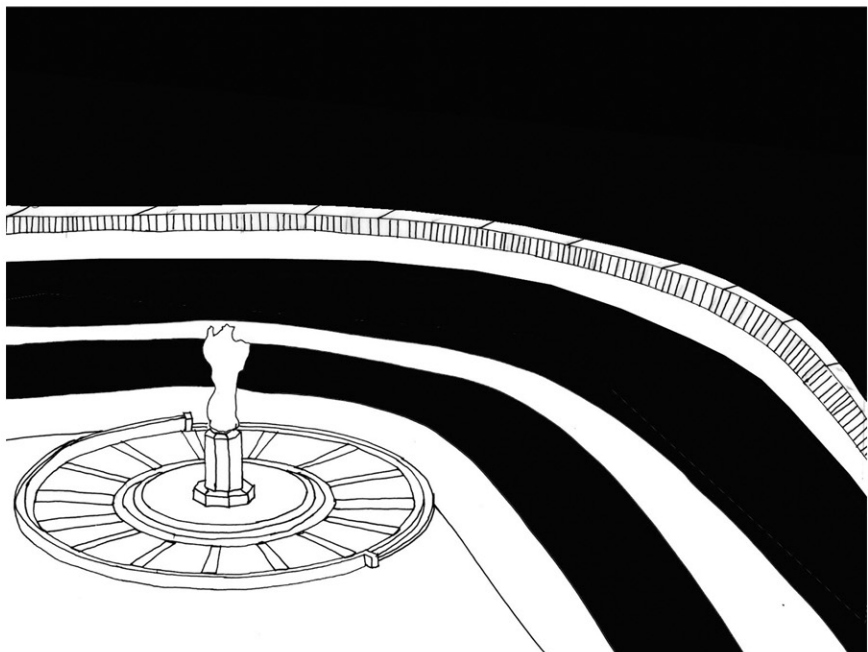
CANAL SYSTEM: The canal system also serves to manage stormwater.



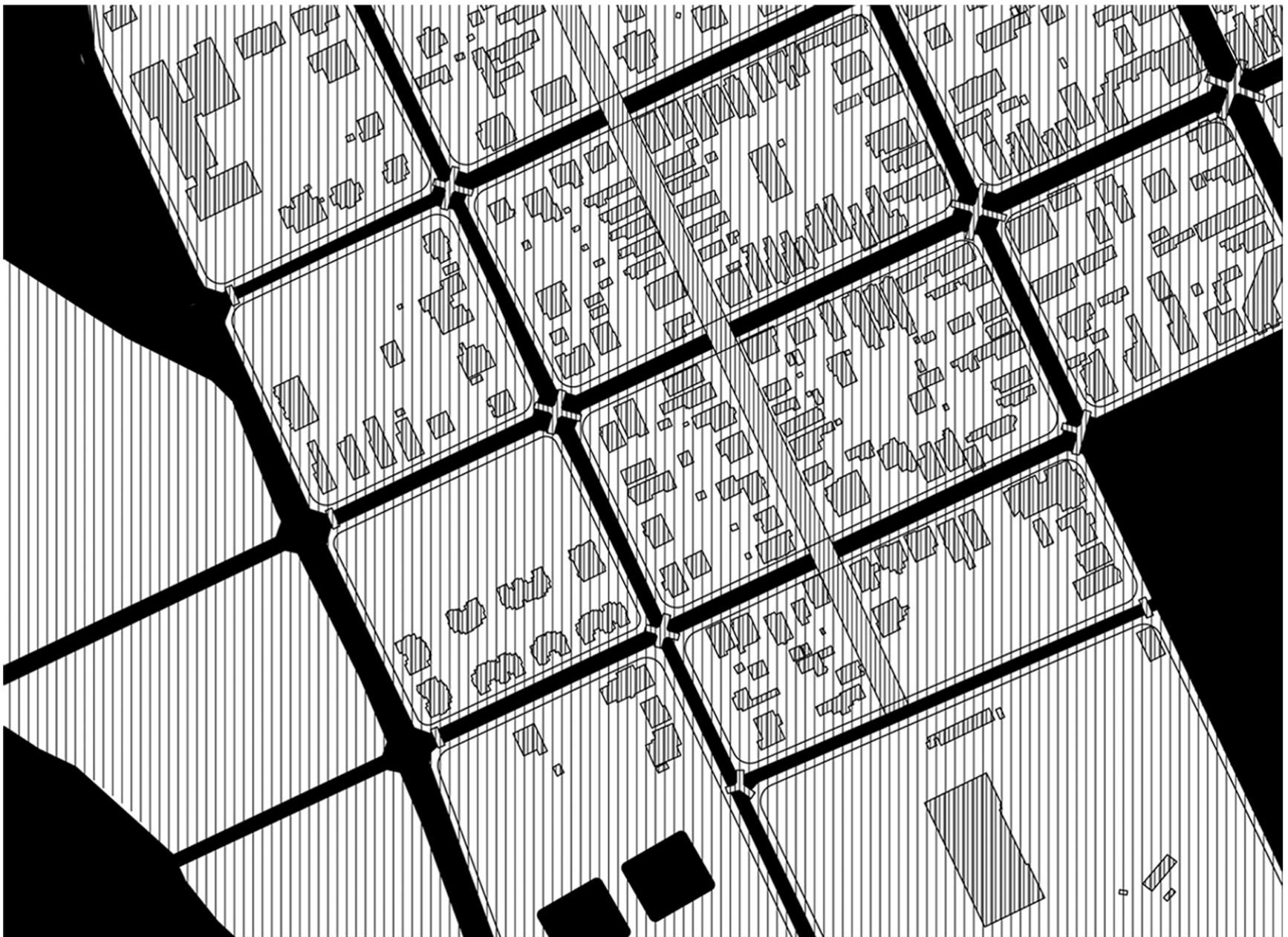
M3-canal city plan  
Acceptance of water encroachment as a positive urban amenity.



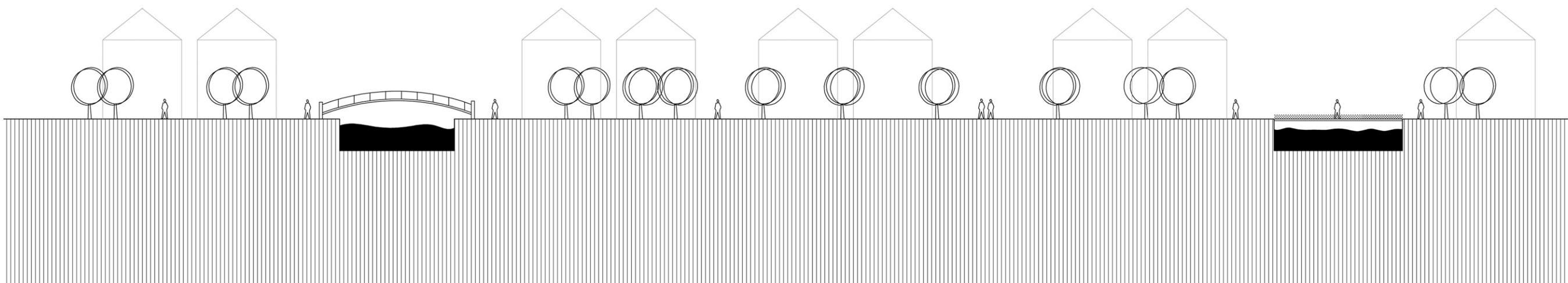
lockwood: new canal & former retention parks in transition



canal/public space scheme



southwest corner of peninsula, canal city phase I



section: canal city