

# 1-foot sea level rise

B1+ 2050 A1FI+ 2050



sea level infiltration
Sea level will rise 1 foot above the 2000 level, at which point 3.5% of the 2000 peninsula footprint will be under water unless protective measures are taken.

 $\begin{array}{c} \textbf{order-of-magnitude 1} \\ \textbf{With sea level 12" higher than 2000 levels, M1 will approach the last point at which the} \\ \textbf{peninsula will be largely as it is today.} \end{array}$ 

ASHLEY SHORELINE: Rising water will encroach on the upper west bank of the peninsula. STORM EVENTS: Storms and hurricanes will become increasingly severe, dropping more water

### principles

Deter water encroachment due to sea level rise.

MARSHES: Expand breadth and depth of existing marsh frontage; increase marsh protection

## Manage stormwater through parks & natural systems. STORM SEWERS: Expand and improve City's storm infrastructure to deal with increased

stormwater and higher tidal flows.

MARSH RENTION: Expand marsh capacity to manage and filter runoff. PARK RETENTION: Expand stormwater retention capacity through water-parks (after Colonial Lake) and greenspace. Stormwater is held until after the storm, then naturally filtered and

### Manage stormwater through pervious pavement & pedestrian

PAVEMENTS: Transform all City streets and parking lots into dual-acting retention tanks through pervious/storage pavements. MALLS: Convert heavy pedestrian areas, such as the Market, to pedestrian-only malls with

pervious/storage pavements.
PARKING DECKS: All parking decks should have green roofs with retention capacity.



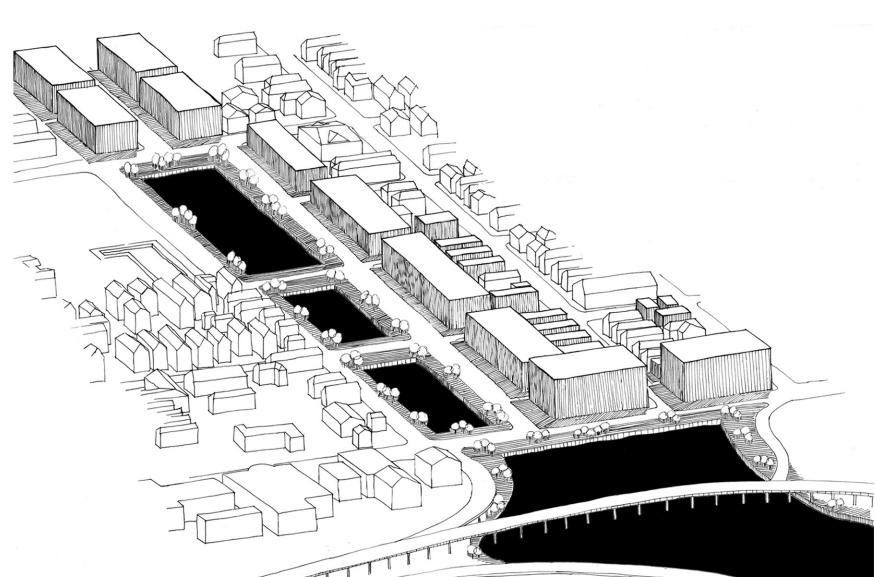
M1 peninsula plan ent are managed mostly through natural systems.



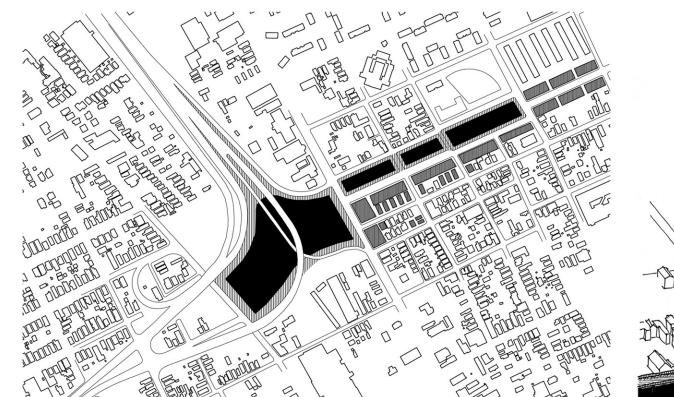
Monding minutes



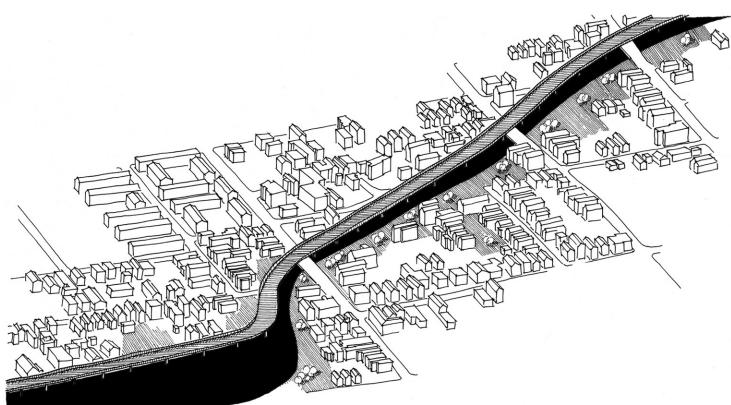
cross-town CCDC proposal
The Charleston Civic Deisgn Center's proposal for the legacy of the Cooper River Bridge lands.



cross-town: retention park



cross-town: retention park
Modify CCDC proposal to include a water retention park lize under-freeway areas for expanded water retention park.



cross-town: elevated roadway

