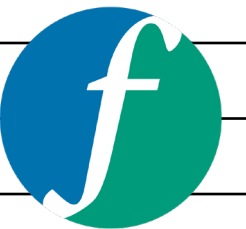


RESILIENT MEADOW STREET

PROJECT UPDATE



RESILIENT MEADOW STREET



Project goal is to reduce flood risk in Meadow Street neighborhood above Amtrak embankment

RESILIENT MEADOW STREET



FEMA flood mapping shows substantial flood risk to neighborhood

41 structures now in FEMA floodplain upland of Amtrak embankment

Does not include future sea level rise, flood risk will worsen

RESILIENT MEADOW STREET



Existing physical conditions are a challenge

“Cattle Crossing” is primary flood pathway

Meadow Street low point is at elevation 2.62'

Mean Higher High Water at elevation 2.97'

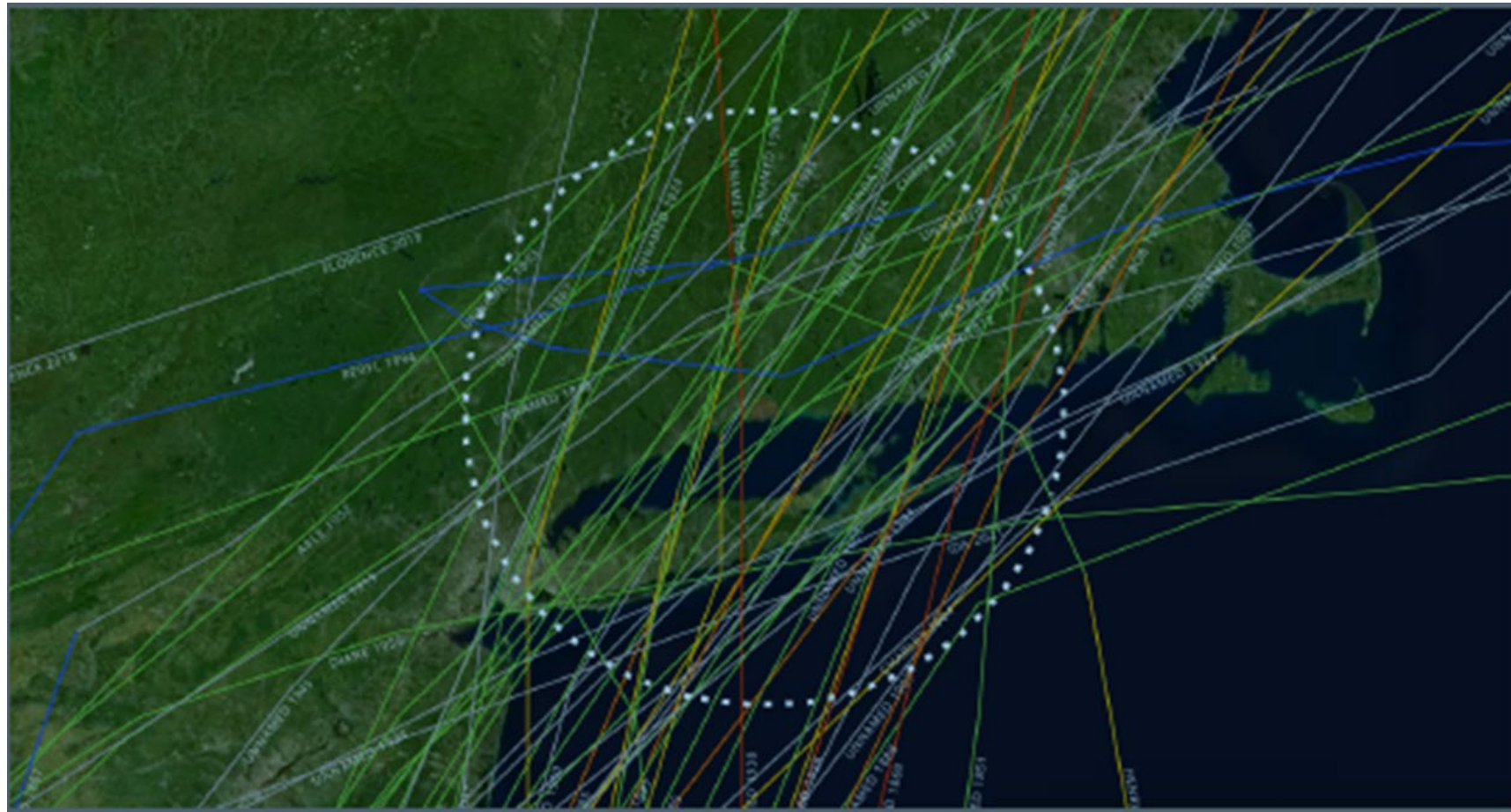
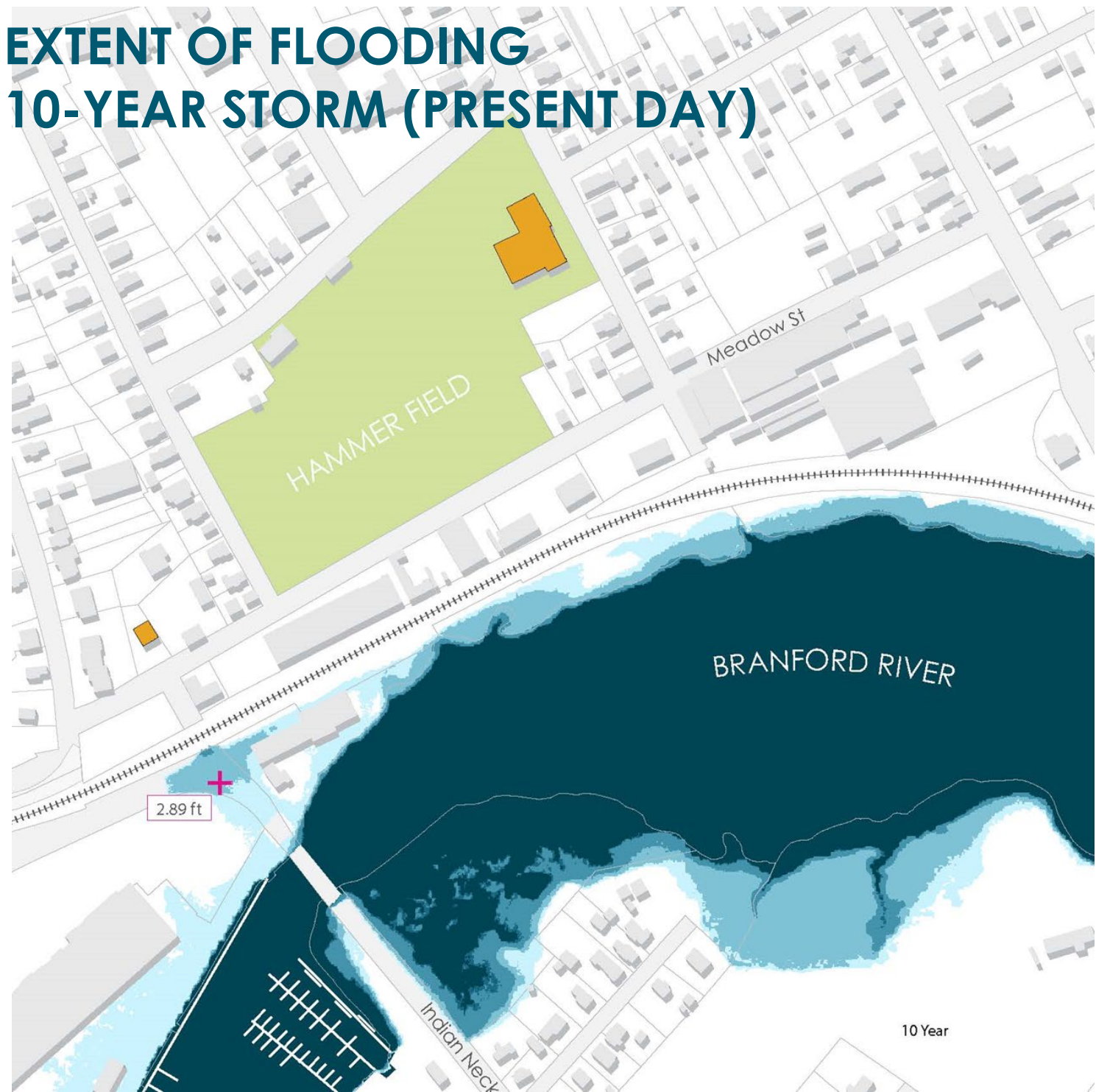


Figure 5: NOAA Storm Tracks for historical tropical storms and hurricanes within 60 miles of Branford.

UConn Connecticut
Institute for Resilience &
Climate Adaptation
modeled current and
future flooding

Future modeled
conditions include 20-
inches of sea level rise
by 2050

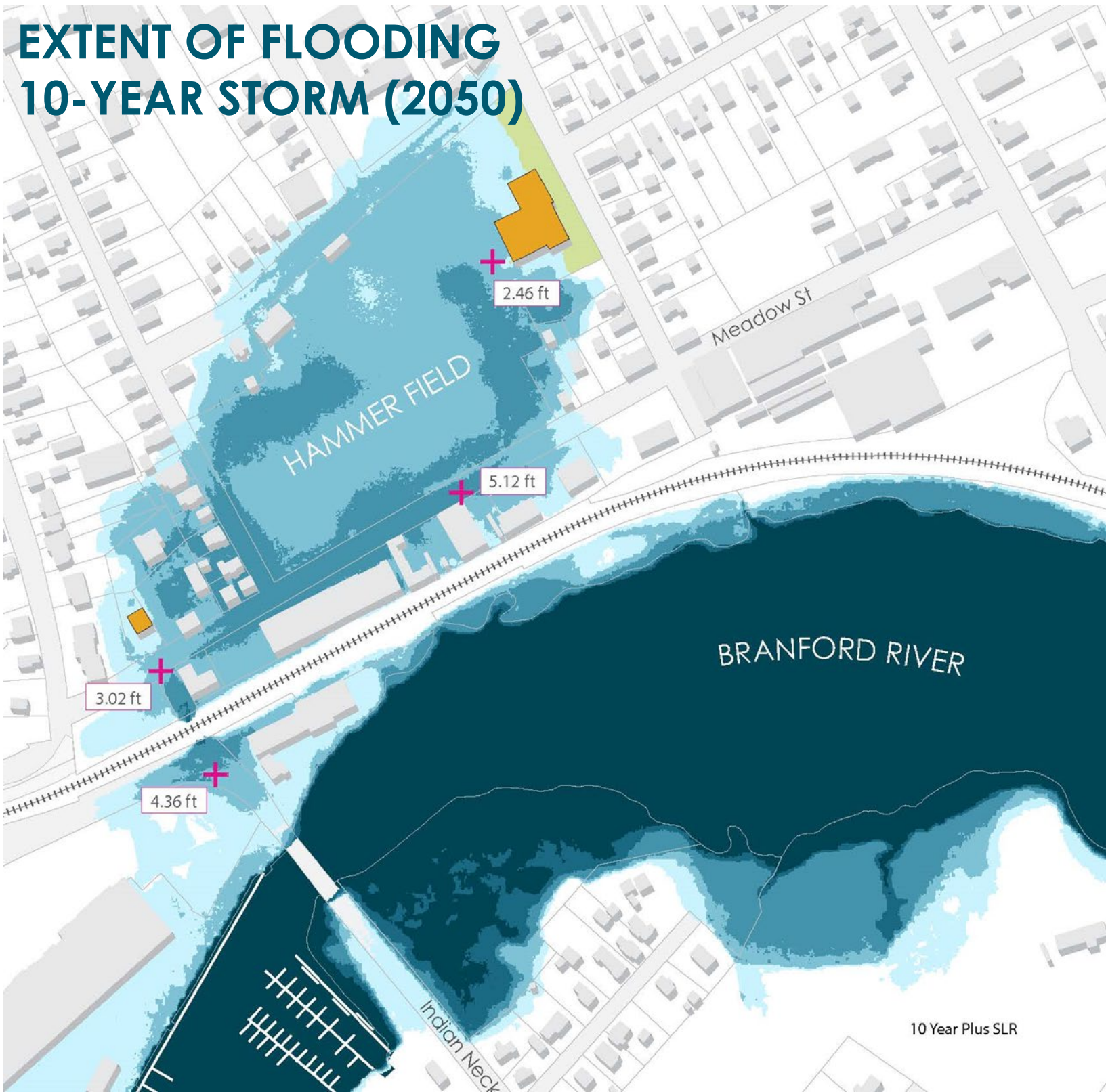
EXTENT OF FLOODING
10-YEAR STORM (PRESENT DAY)



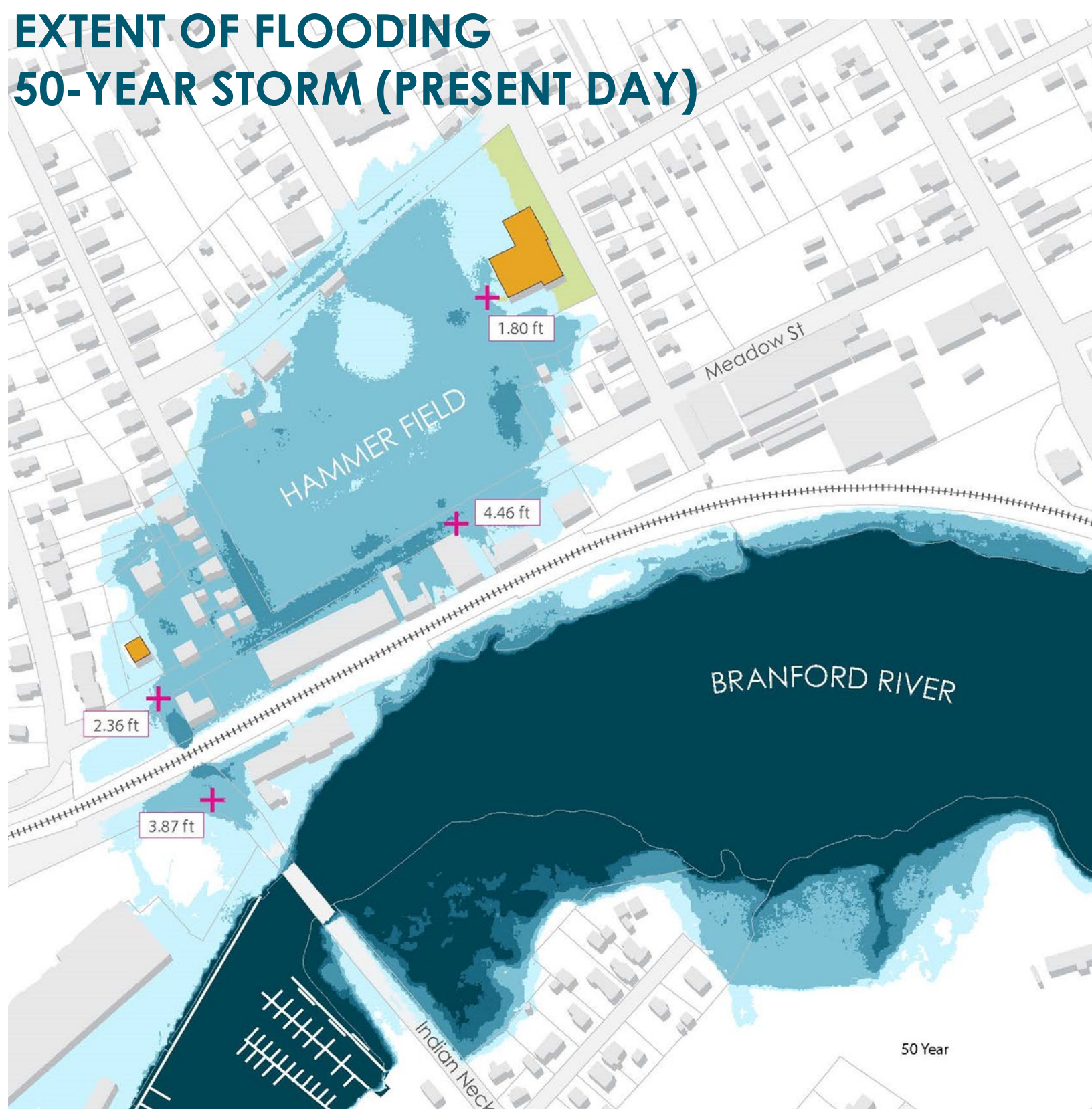
10-YEAR RETURN STORM
FLOOD MAPPING

RESILIENT
MEADOW STREET

EXTENT OF FLOODING
10-YEAR STORM (2050)



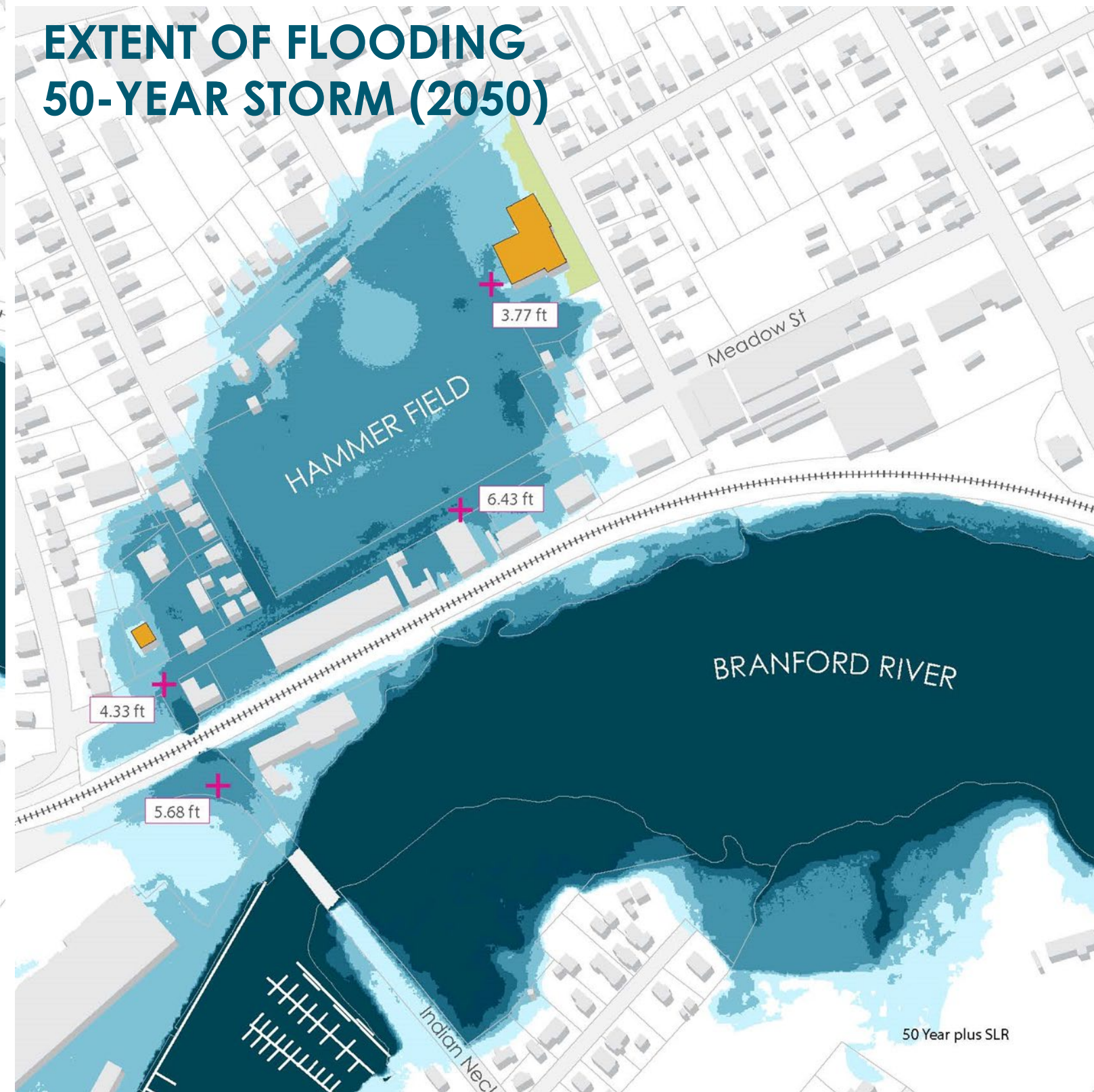
EXTENT OF FLOODING 50-YEAR STORM (PRESENT DAY)



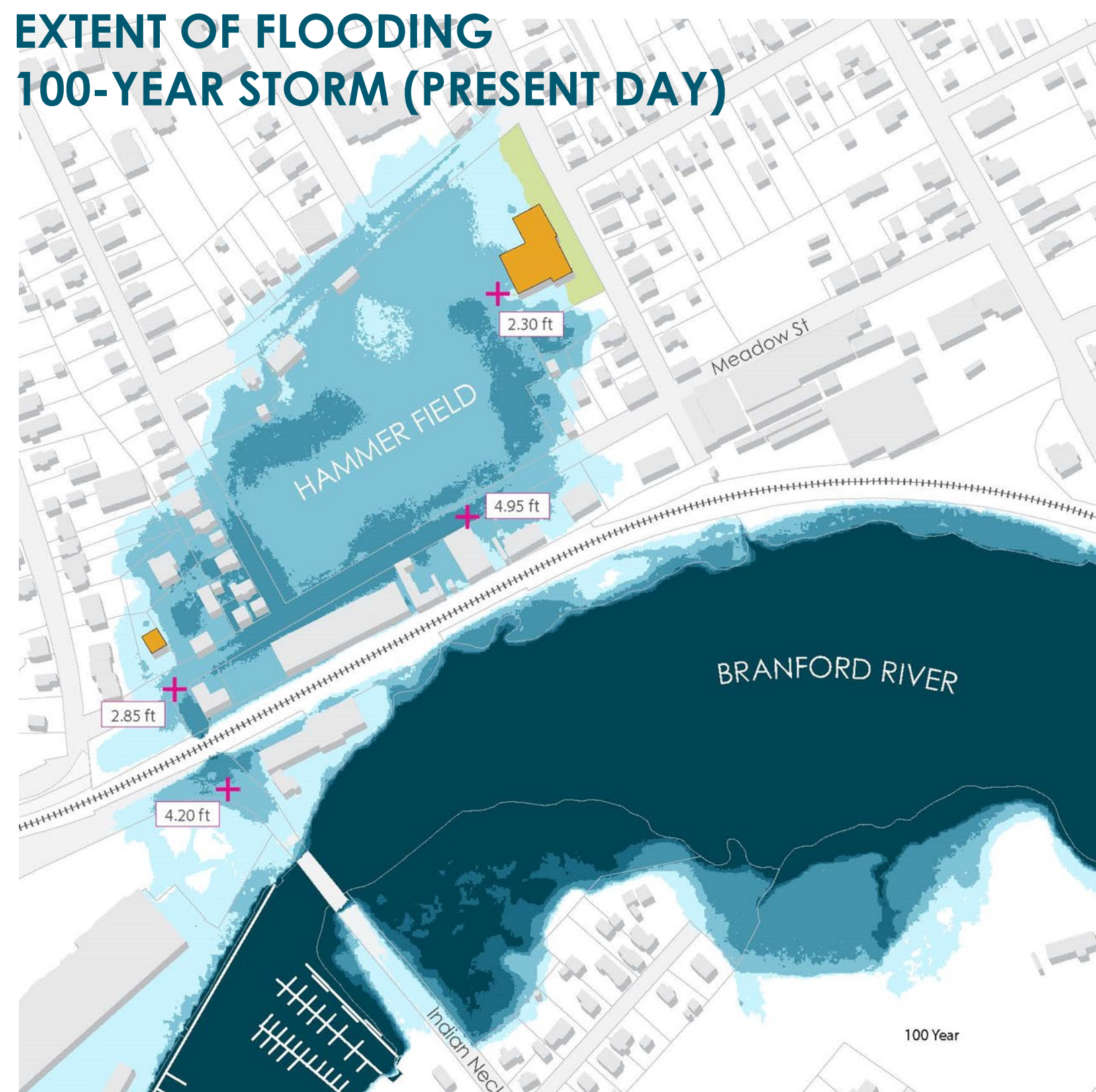
50-YEAR RETURN STORM FLOOD MAPPING

RESILIENT MEADOW STREET

EXTENT OF FLOODING 50-YEAR STORM (2050)



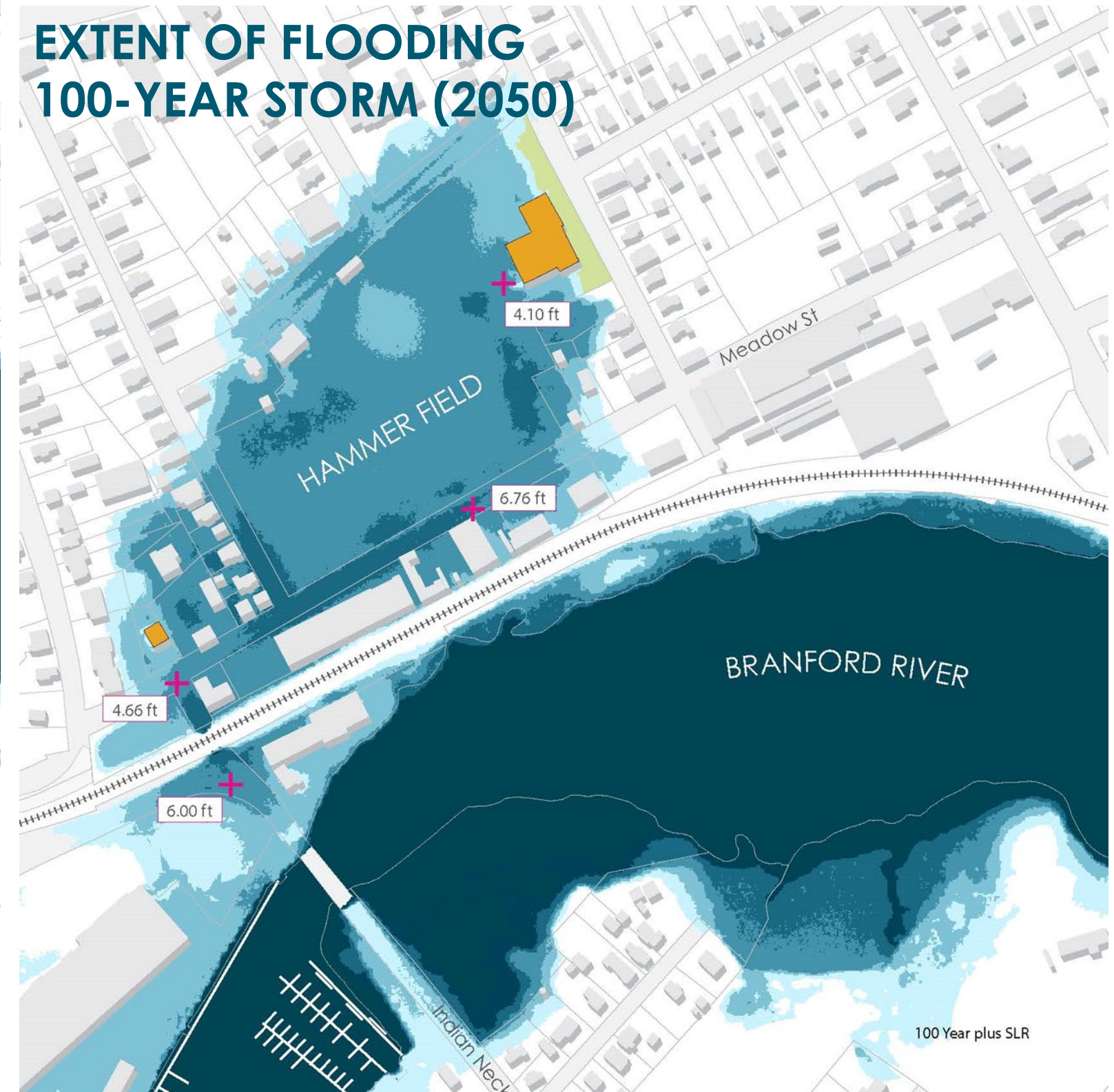
EXTENT OF FLOODING 100-YEAR STORM (PRESENT DAY)



100-YEAR RETURN STORM FLOOD MAPPING

RESILIENT MEADOW STREET

EXTENT OF FLOODING 100-YEAR STORM (2050)



STORM EVENT	NUMBER OF STRUCTURES IMPACTED (NORTH OF TRAIN TRACKS)	
	Current Climate	Future Climate (2050)
10-year	0	34
50-year	29	40
100-year	35	42

Predicted that today's 100-year frequency flood will be equivalent to projected 10-year frequency flood in 2050

RESILIENT MEADOW STREET



2016 Public Meeting
feedback to keep “Cattle
Crossing” open

Two Options

1) **Install gate-only** to close
“Cattle Crossing” during
floods

2) **Install gate and new
floodwall** to close “Cattle
Crossing” and reinforce
Amtrak embankment

RESILIENT MEADOW STREET

OPTIONS	ADVANTAGES	DISADVANTAGES
Gate-Only	Relatively low cost	Likely not eligible for FEMA funding Requires human operation to be deployed (applies to both)
Gate with Flood Wall	Eligible for FEMA funding Approvable by FEMA to remove upland structures from regulated floodplain	Multi-million dollar project Major visual impact Conflicts with existing building and Amtrak embankment, requires Amtrak approval



RESILIENT MEADOW STREET

QUESTIONS?

