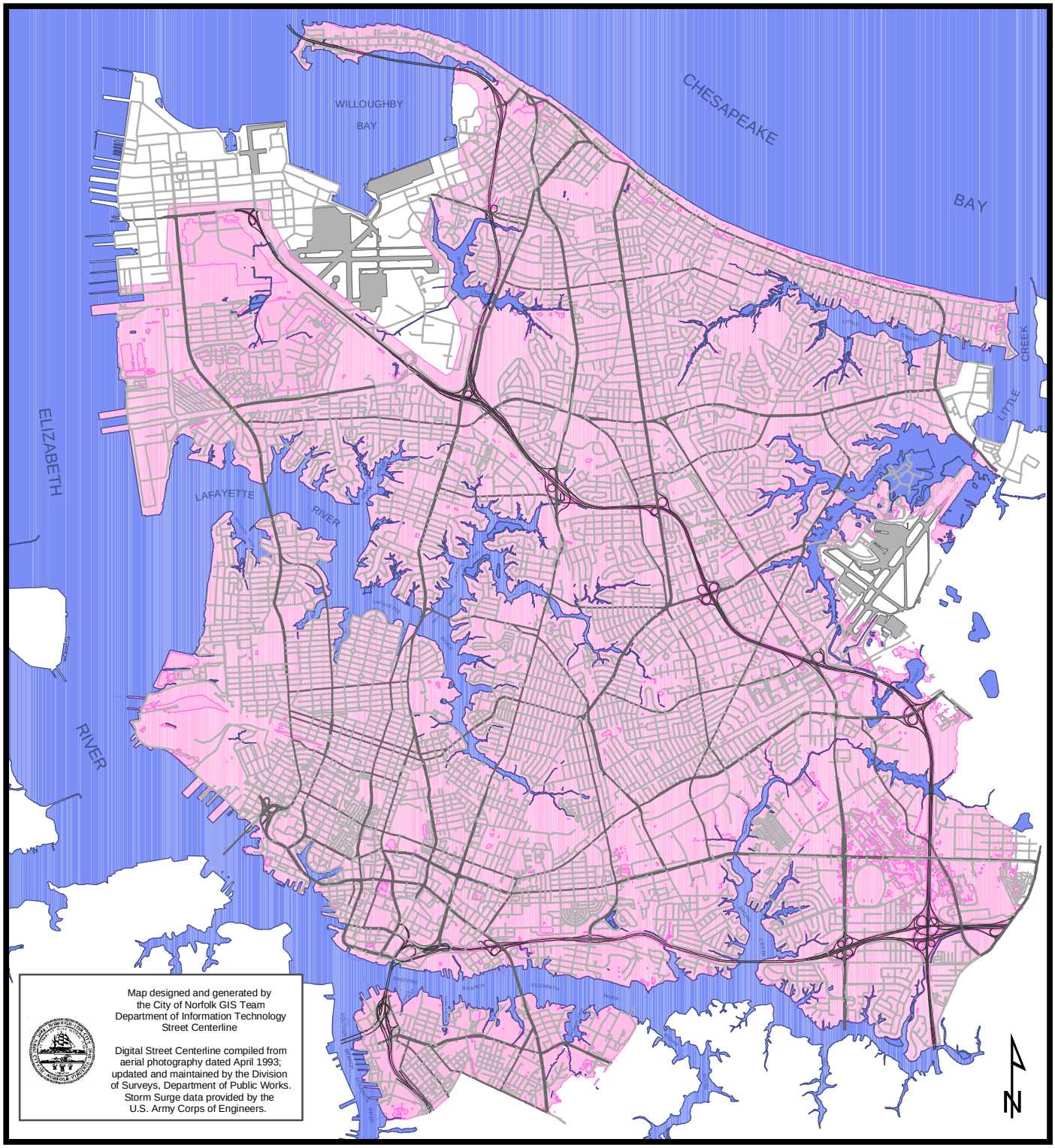CATEGORY 4 HURRICANE STORM SURGE