

-Focus-

FLOOD CONTROL & DRAINAGE

-Flood Control, Drainage, & Wetlands Committee-

Lee Lennard, Committee Chair—BGE, Inc.
Tim Buscha, Vice Chair—IDS Engineering Group

- Terry Barr—Halff Associates
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- Andy Palermo—EHRA Engineering
- Scott Saenger—Jones|Carter
- Andres Salazar—Walter P Moore

-Issues-

- The Houston region is flat, near the coast, and has clay soils, which create substantial yet manageable flood risks.
- Storms have inflicted billions in flood damages, including over \$230 billion between 2001 and 2017.
- Current infrastructure and flood control funding for flood control will not adequately address intense rainfall events.

-Goals-

- Invest \$2.0 billion per year regionally and \$500 million per year in the WHA service area from Federal, State, County and City sources.
- Create a regional master drainage plan to provide a level of service that will safely convey 14 inches of rainfall runoff in a 24 hour period.
- Enhance the environment using green infrastructure corridors and natural channel design.

Challenges & Opportunities

- **Local Funding Shortages.**
- **Local Funding Solutions.**
- **State and Federal Funding.** HCFCD and other local jurisdictions currently leverage state and federal funding programs for drainage infrastructure.
- **Inadequate Drainage Corridors.** Prior to 1984, Harris County did not have detailed flood maps or regulations to adequately size corridors.
- **Acquire Corridors.** Proactively and strategically acquire land for drainage corridors and detention areas.
- **Incomplete Planning.** No comprehensive regional coordination for flood control exists.
- **"Drainage Thoroughfare Plan."** A regional drainage plan would guide quality growth and prevent loss of critical rights of way which protect pathways for floodwaters in the Greater West Houston area and across the county to Galveston Bay.



COSTS

Harris County requires **\$35 billion** to increase conveyance and detention.

Local Drainage inadequacies require an additional **\$6 billion.**

Houston Stronger Flood Prevention Plan estimates a total need for drainage infrastructure in the region of **\$57.97 billion.**

FUNDING

-Local-

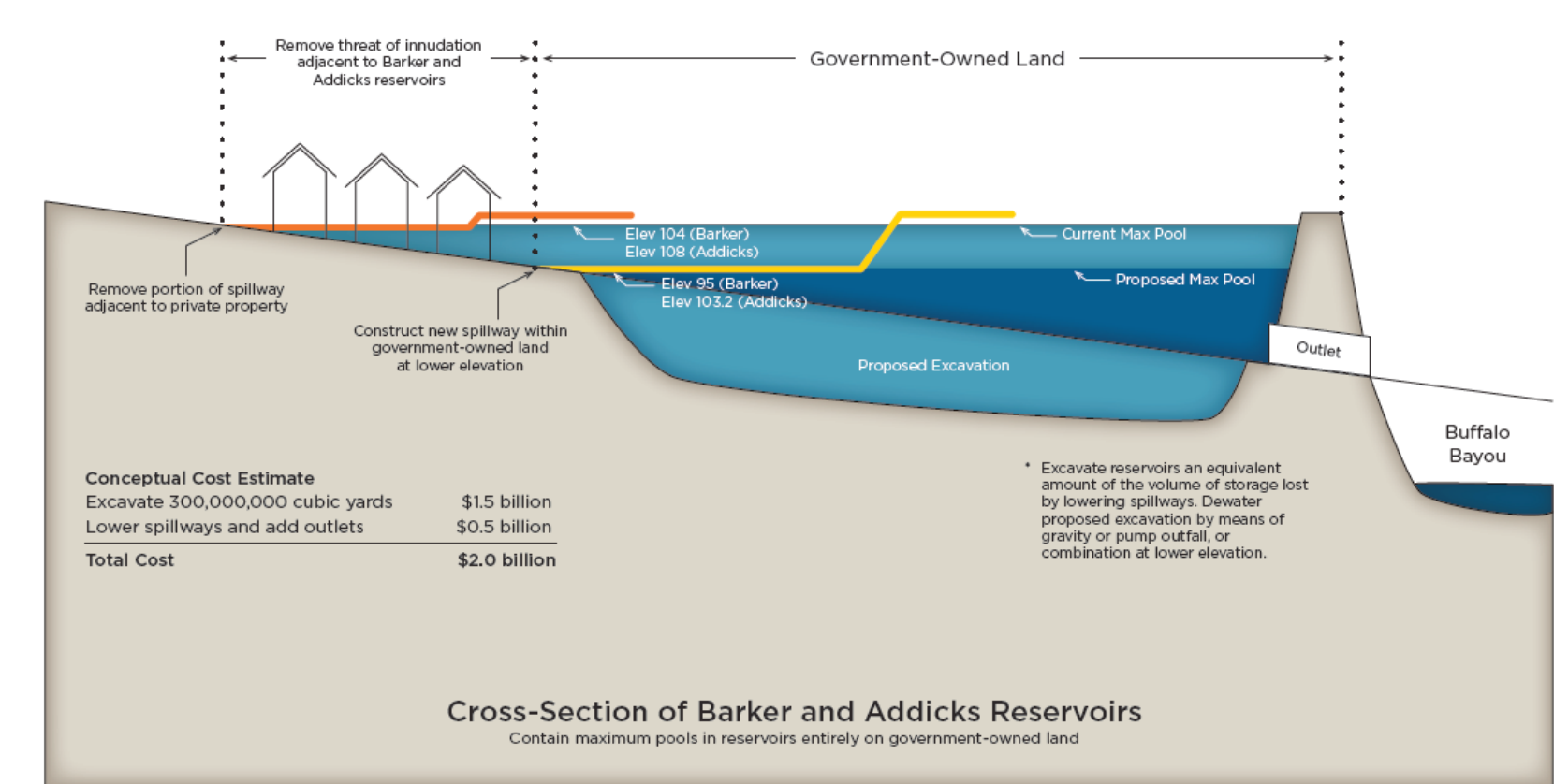
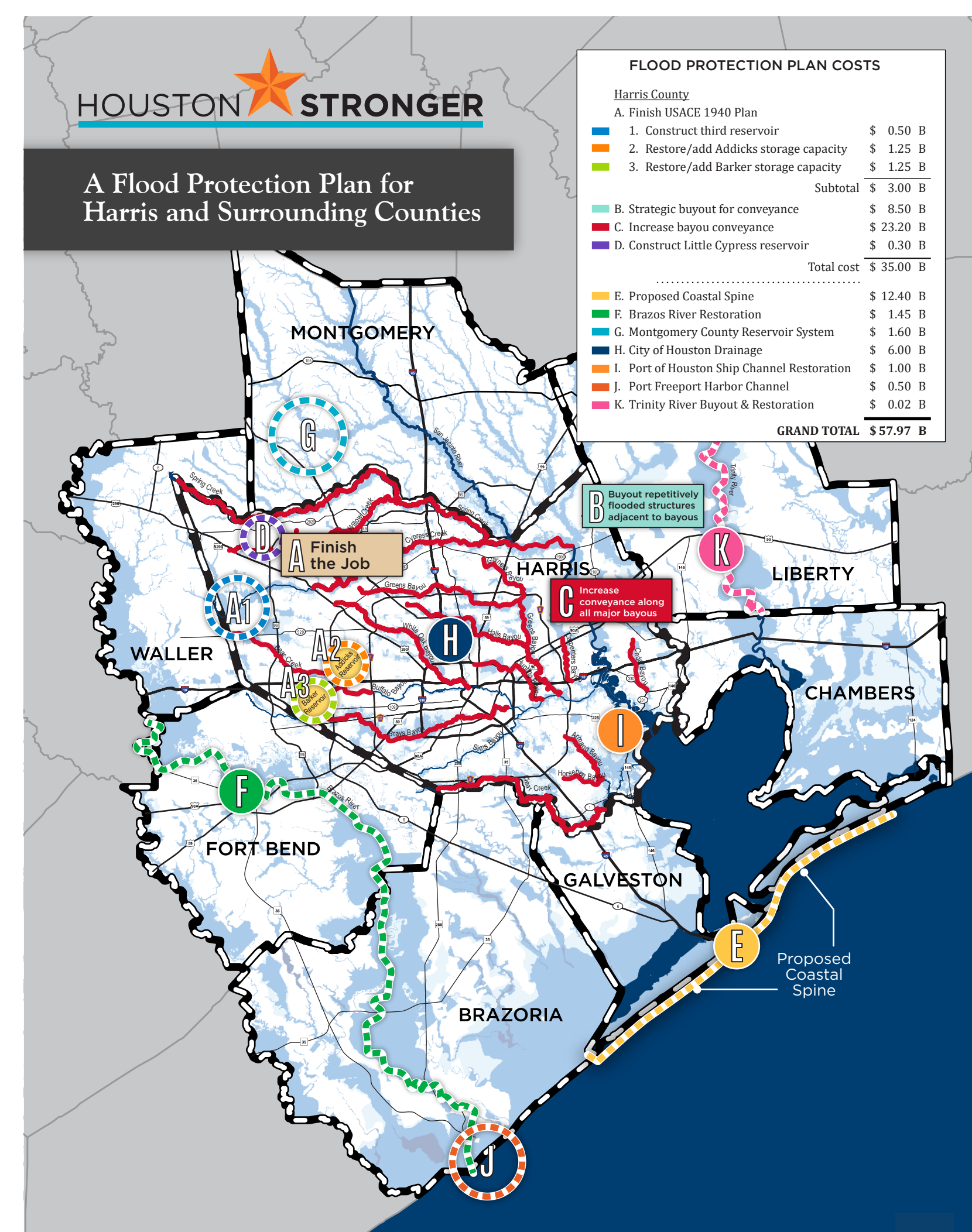
- Rebuild Houston, a cash-only, pay-as-you-go model, will provide **\$20 billion** for street and drainage repairs and improvements.
- Harris County Bond Election **\$2.5 billion**, **\$900 million** of which in addition to federal grants will go to complete Brays, White Oak, Hunting Bayous, Clear Creek, and other projects, **\$736.5 million** in buyouts, **\$100.4 million** for repairs, **\$120 million** in new projects, and **\$500 million** in reserve funds.

-State-

- Expand funding programs run by the **Texas Water Development Board.**
- Provide **\$1 billion** in initial funding and long-term dedicated fund assistance for resiliency projects.

-Federal-

- Bipartisan Budget Act of 2018 allocated **\$89.4 billion** across the country.
- Additional funds to be allocated through the **Water Resources Development Act, State Revolving Fund,** and other federal sources.



WEST H★USTON

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DEVELOP A BETTER FUTURE

