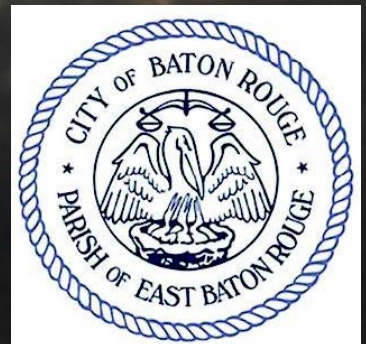


EBR Stormwater Master Plan Status

25 September 2019

HNTB



Phased Approach

PHASE 1

Stormwater Master Plan Implementation Framework
HMGP Applications

PHASE 2 – *We Are Here*

Data Collection
Modeling & Analysis
Planning & Development

PHASE 3

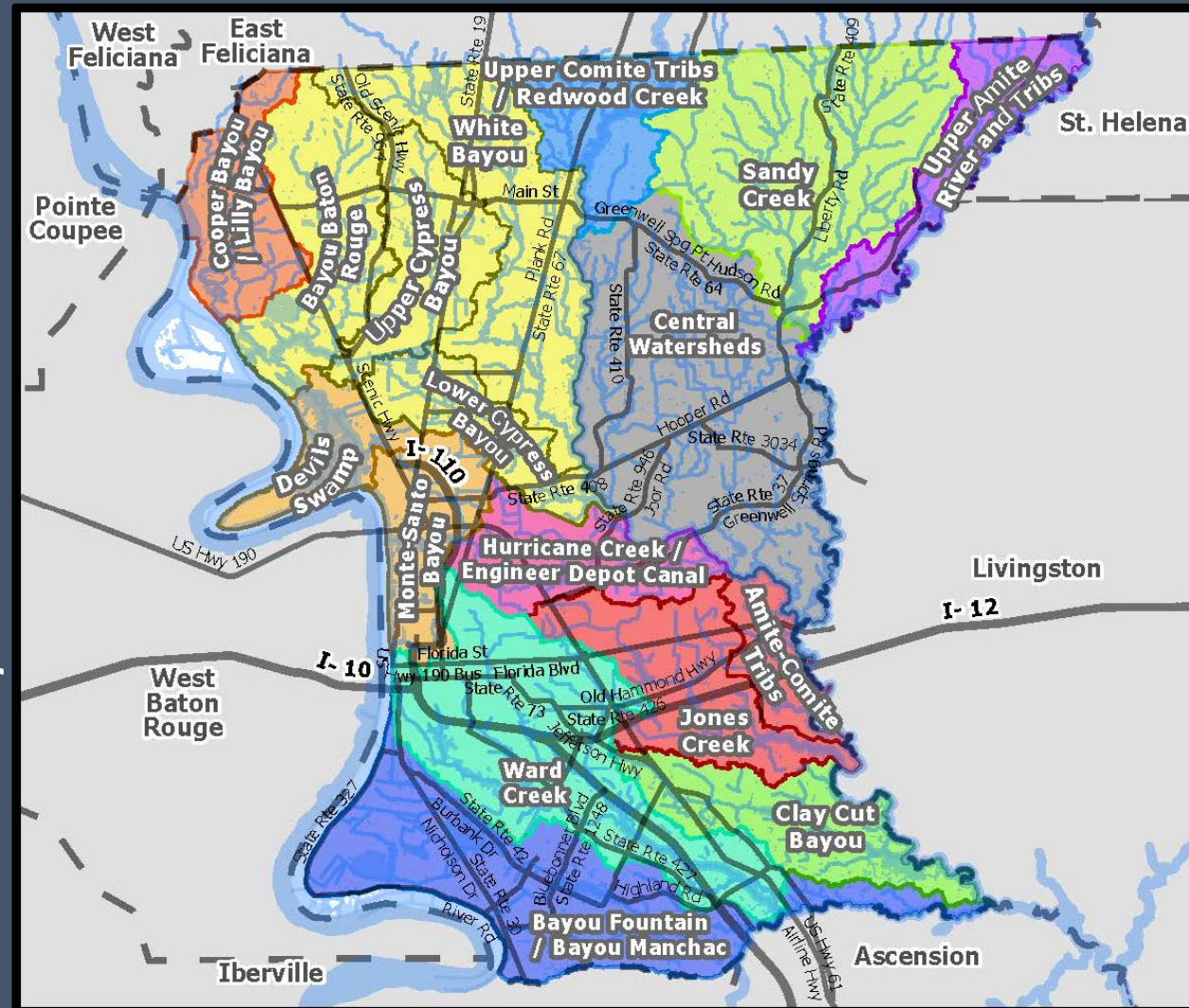
Stormwater Master Plan Report
20-Year Drainage Capital Improvement Plan

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Established Project Goals

- Identify Hazards
- Technical Plan
 - Reduce flood risk
 - Avoid downstream impacts
 - Account for changing climate
- Maintain Stormwater Infrastructure
- Environmental Impact



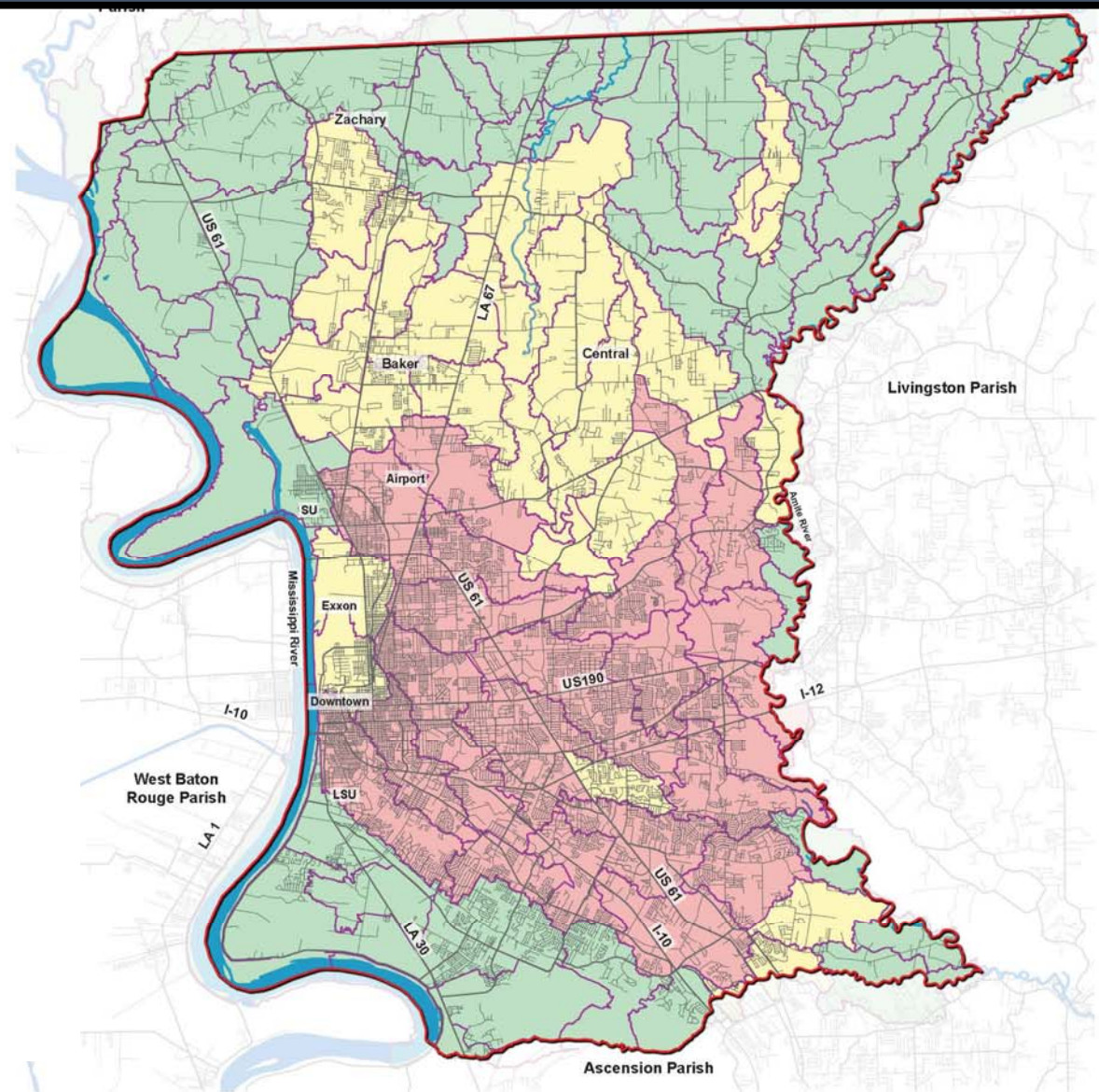
11 Watersheds Identified

Conducted Risk Analysis

Risk Analysis By Watershed



- Critical Infrastructure
- Flooded Structures
- 100-Year Flood Plain
- 2016 Flood Limits
- Social Vulnerability



Continuing Data Collection

City Parish

(167,000 Files)

- Plans
- H&H Models
- Drainage Maps
- Flood History
- GIS Data
- 2016 Flood Levels

USACE

- Amite-Comite H&H Models
- Reports
- Gage Data
- Amite/Comite Surveys

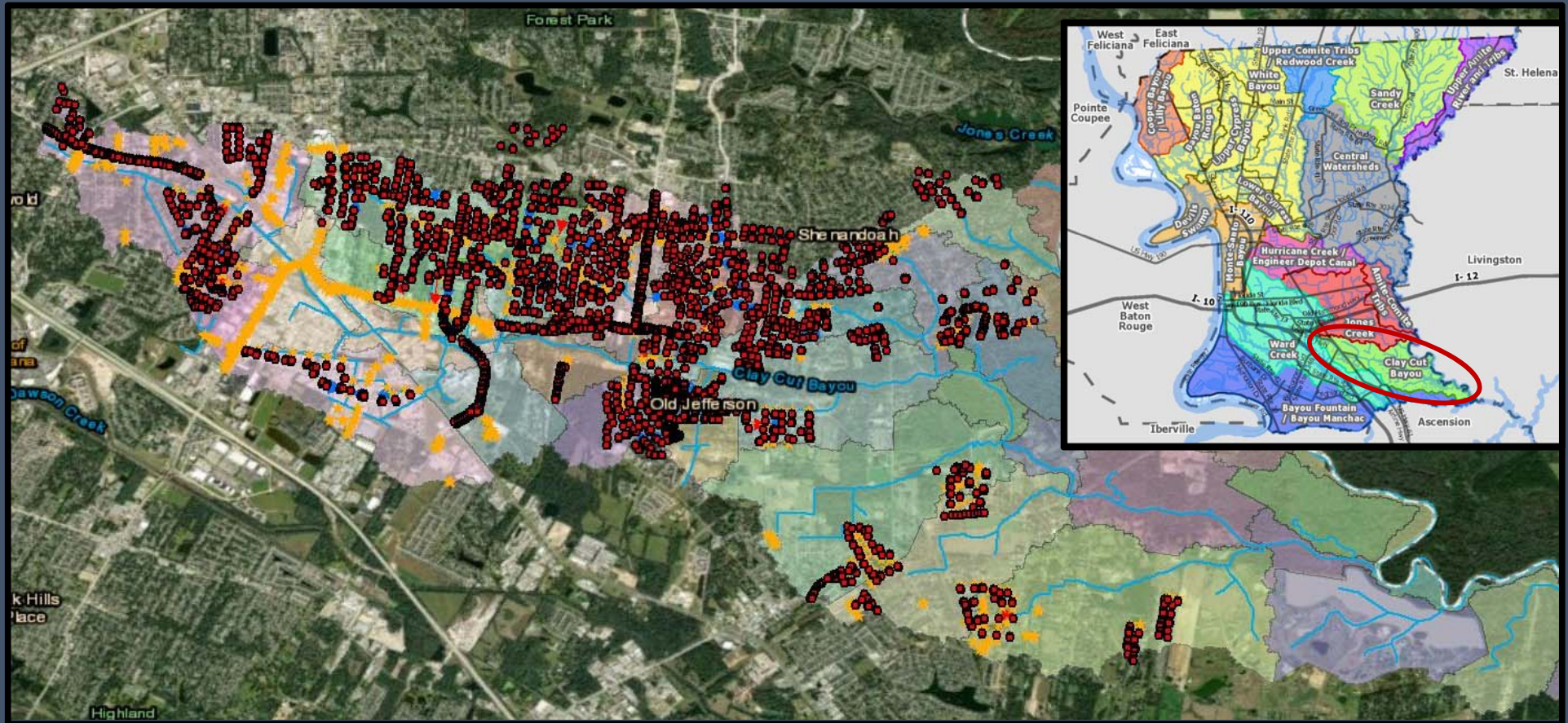
FEMA

- FIS Study Models
- FIS Reports & Maps
- H&H Models of Parish Streams

OTHERS: LiDAR, Gage Data, Survey, Reports, References

➔ Phase 2 - Initial Work

Claycut Watershed Data Collected/ GIS Database Development



- Over 3500 Structures
- >30 Bridges/ Culvert Crossings
- Photos/Videos
- 20 Additional Channel Cross Sections (above existing data)

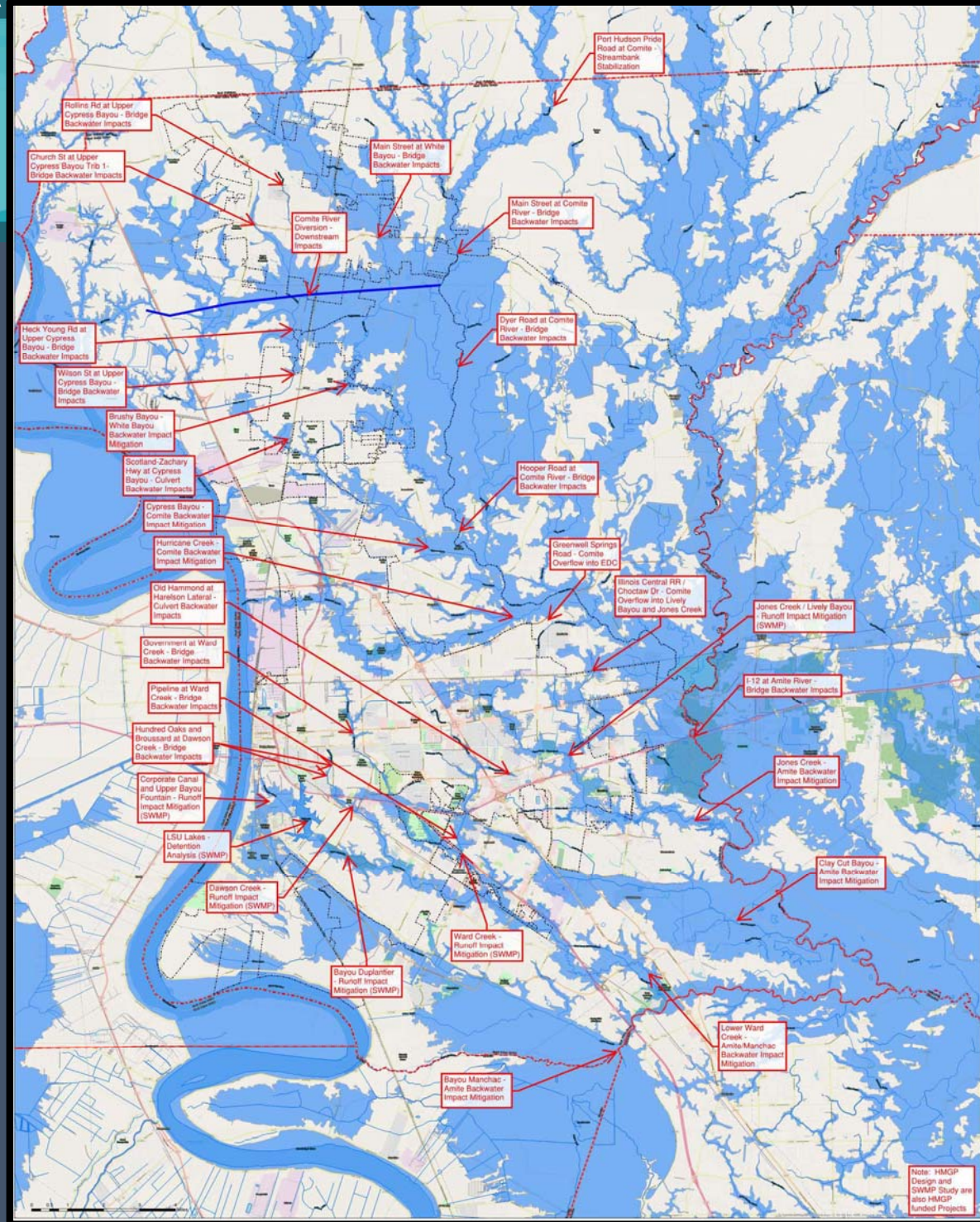
➔ Phase 1 & 2 - Initial Work

HMGP Applications

- \$80 Million EBR Allocation
- Over 60 potential projects evaluated. Parish submitted 24.

Evaluation Included:

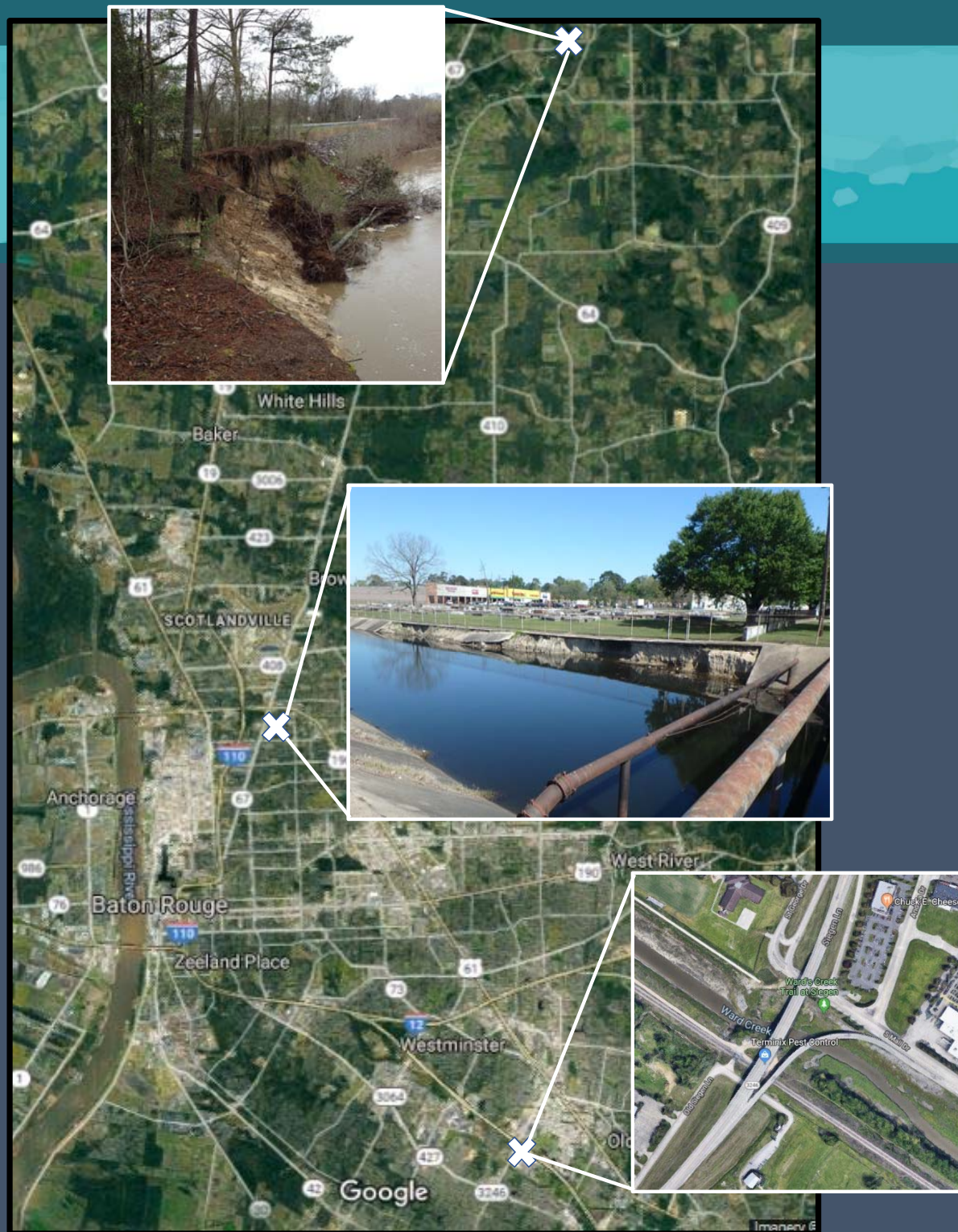
- Risk Areas
- Historic Flood Information
- 100-Year & 2016 Inundation Limits
- 311 Data Calls
- FEMA Repetitive & Severe Repetitive Loss Areas
- Roads Inundated
- Zoning / Land Use / Watersheds



→ Phase 1 & 2 - Initial Work

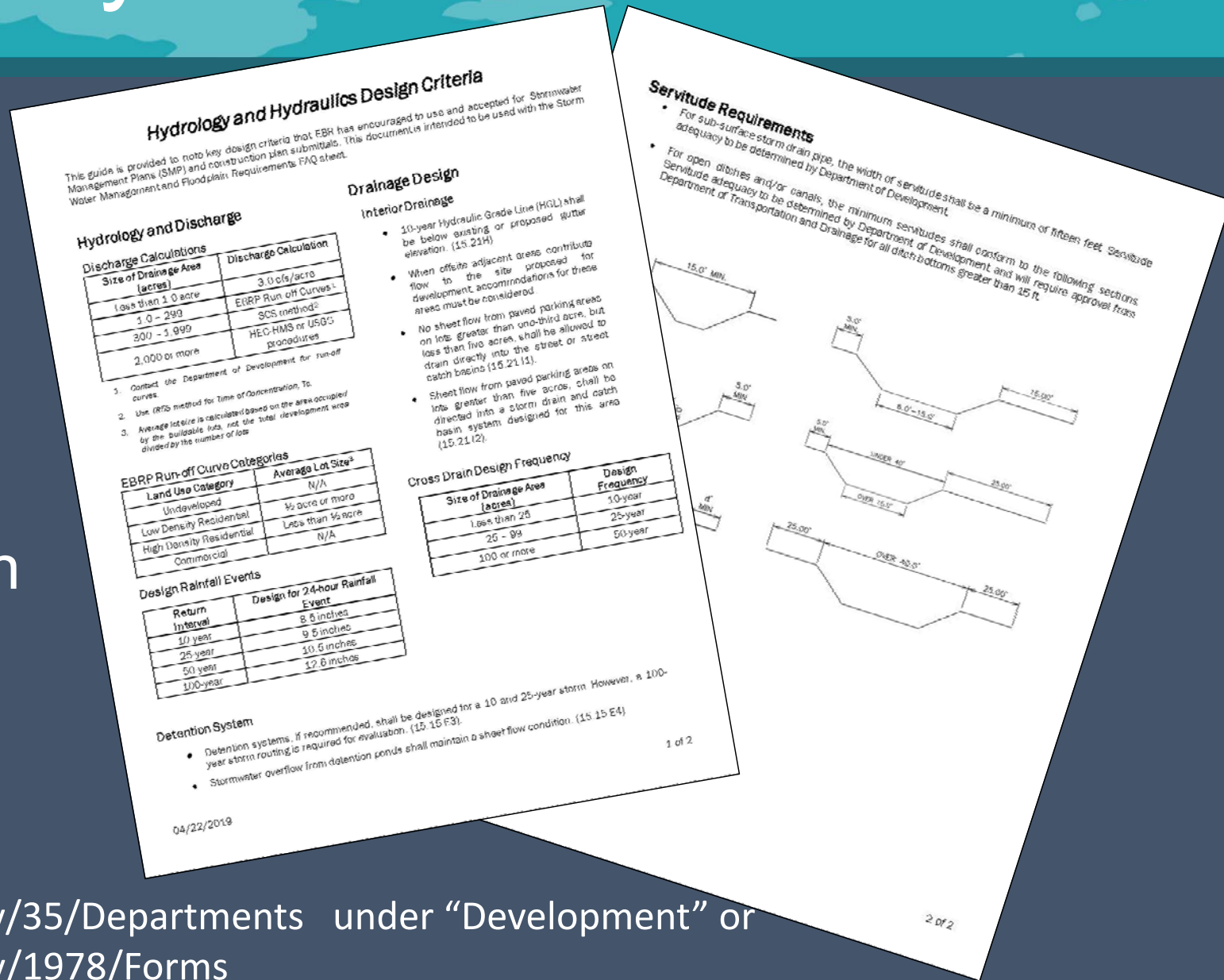
HMGP Projects Continuation

- Examples of Approved Drainage Projects
 - Stormwater Master Plan
 - Port Hudson Pride Road Bank Stabilization
 - Hurricane Creek at Plank Road Slope Paving
- Expect additional projects FEMA approvals



Preliminary Ordinances Review

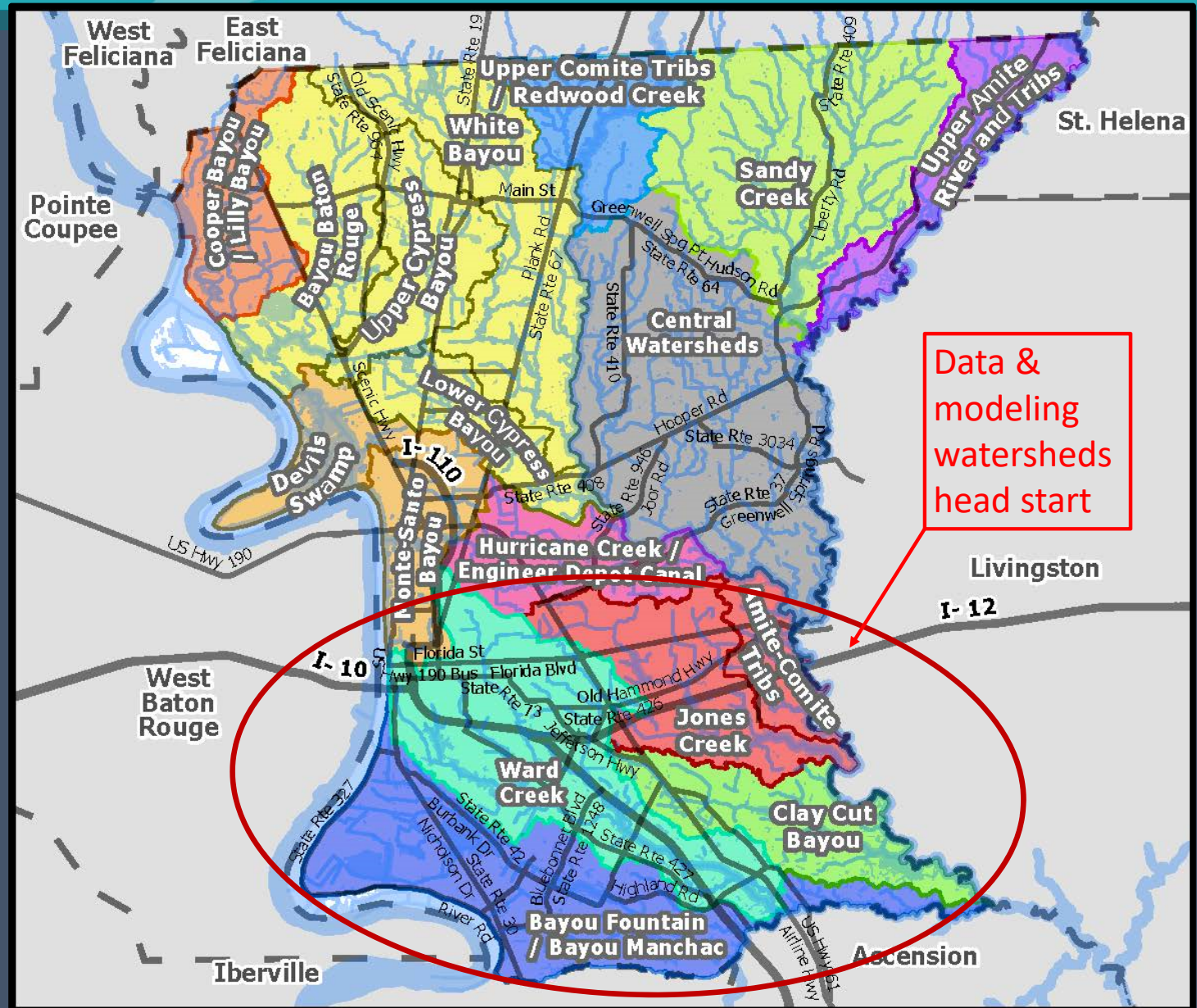
Review and Updated Stormwater Management and Floodplain Requirements



➔ Phase 2 & 3 - Path Forward

Path Forward – Watershed Based Analysis

- Start models with existing data
- Continue/Complete storm water system survey
- Models Identify Hazards/Impacts
- Develop Risk Reduction Projects & Strategies
- Plan & Funding



Stormwater Master Plan Budget

Task #	Task Description	Fee By Task
1.0	Project Management & Coordination	\$553,344
2.0	Data Collection/Acquisition	\$7,915,114
3.0	Public Outreach	\$1,062,838
4.0	Design Criteria Methodology	\$67,164
5.0	Hydrologic and Hydraulic Models	\$2,044,512
6.0	Flood Hazard Risk Assessment and Develop Risk Reduction Projects	\$2,431,372
7.0	Ordinance and Codes	\$316,096
8.0	Stormwater Master Plan (SMP) Report	\$179,794
9.0	20-Year Capital Improvement Plan	\$384,354
Total Labor		\$14,958,588
Expenses (Travel, ODC)		\$45,412
Total Fee		\$15,000,000