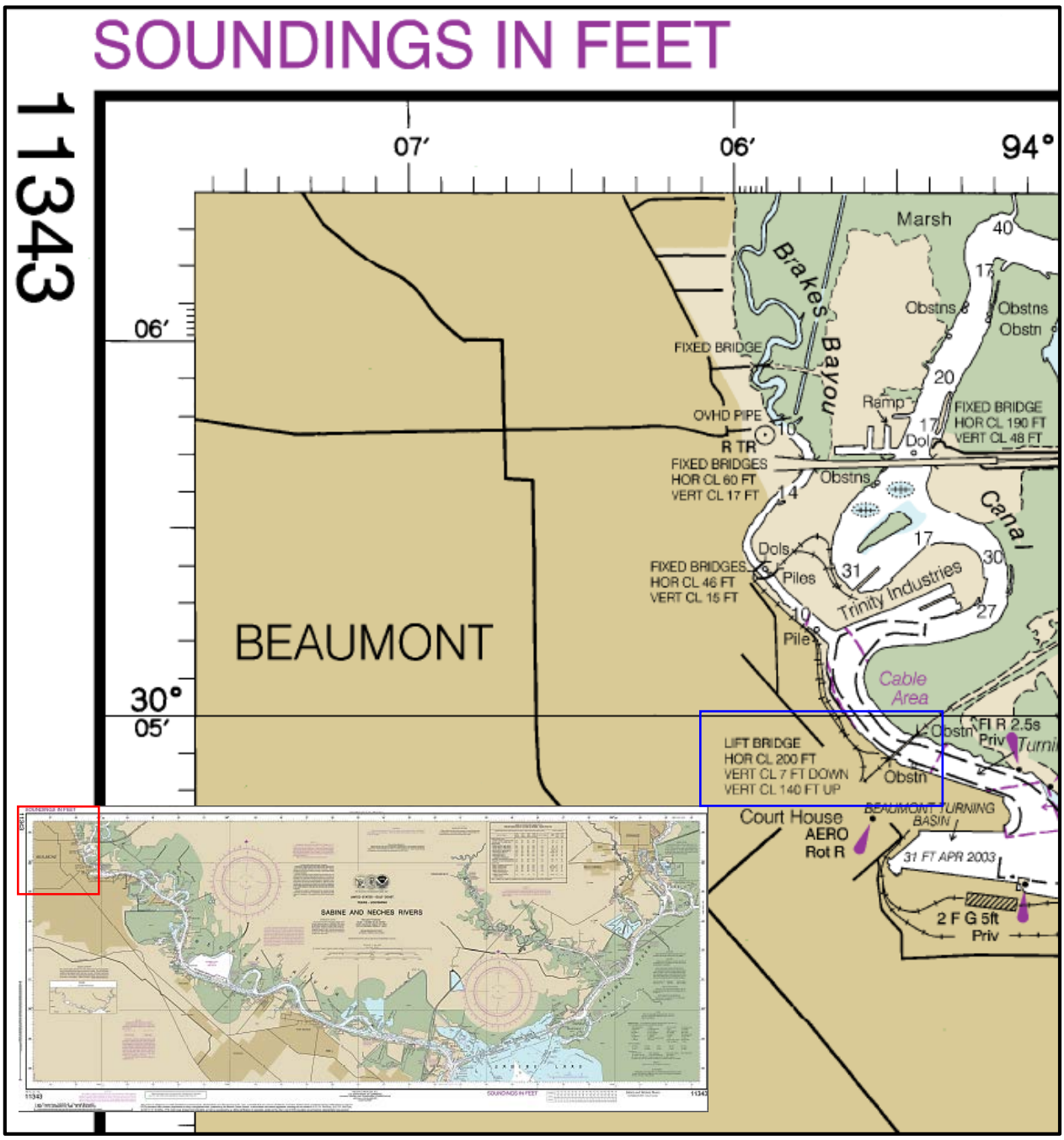
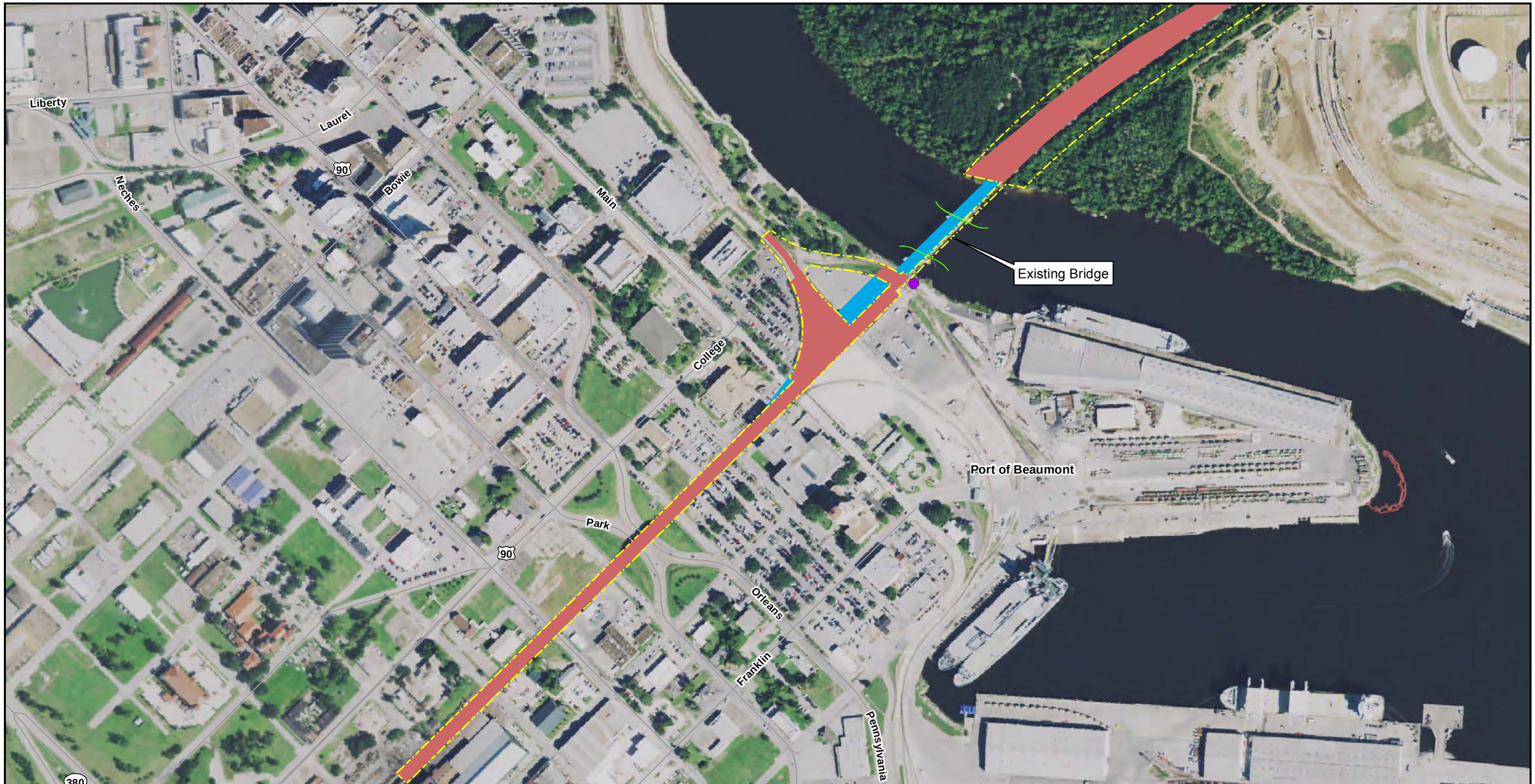


Source: NOAA

SABINE AND NECHES NAVIGATIONAL CHART
Exhibit 1

Texas Department of Transportation



Legend

- Impact Area (Existing ROW)
- Impact Area (Proposed ROW)
- Impact Area (Proposed Fender)
- Proposed Laydown Area
- Existing ROW
- Upgrade Pump Equipment

Sources: Study Team 2016.

N

0 125 250 500
Feet

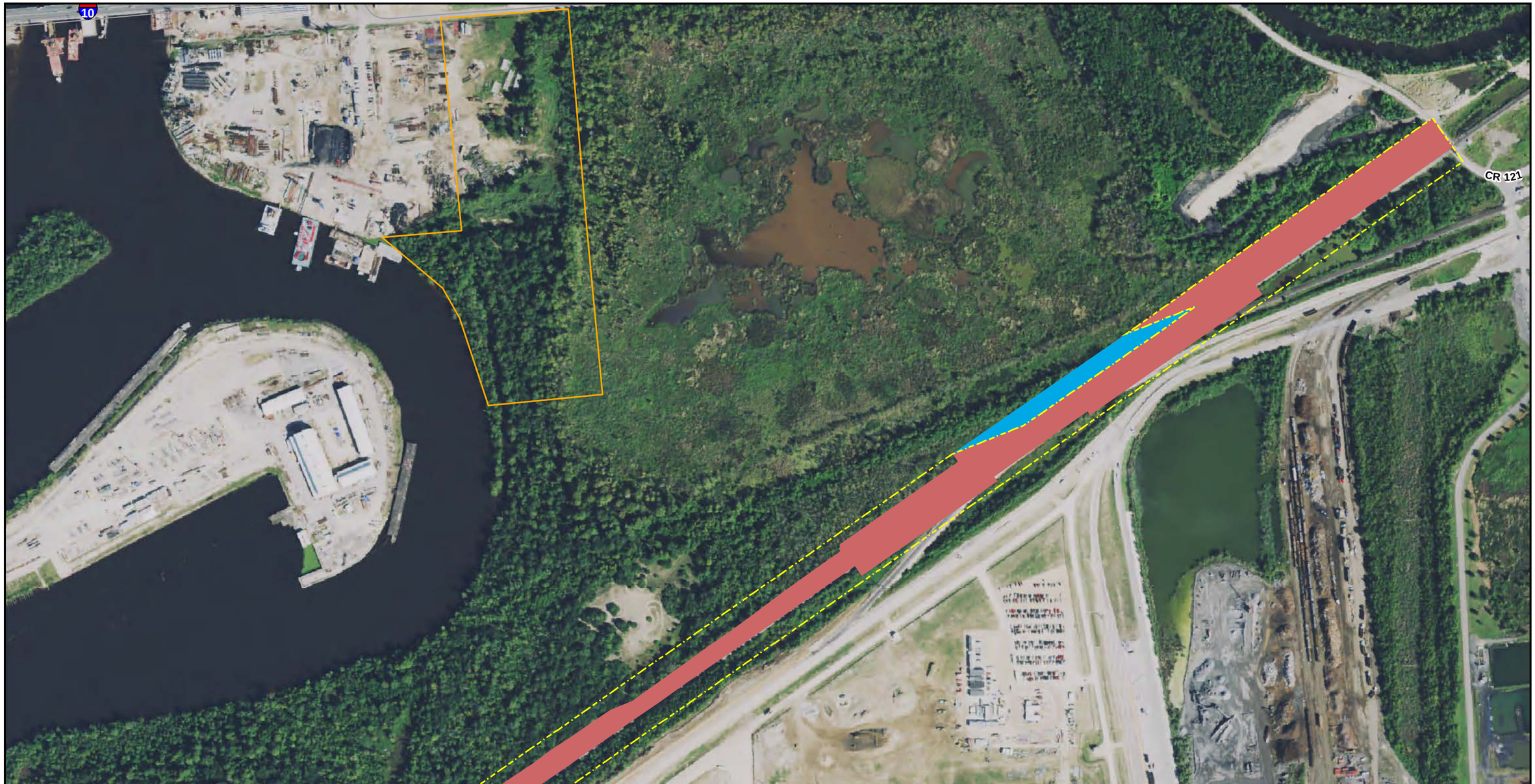
CONSTRUCTION LIMITS

Exhibit 2a

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



Legend

- Impact Area (Existing ROW)
- Impact Area (Proposed ROW)
- Impact Area (Proposed Fender)
- Proposed Laydown Area
- Existing ROW
- Upgrade Pump Equipment

Sources: Study Team 2016.

N

0 125 250 500
Feet

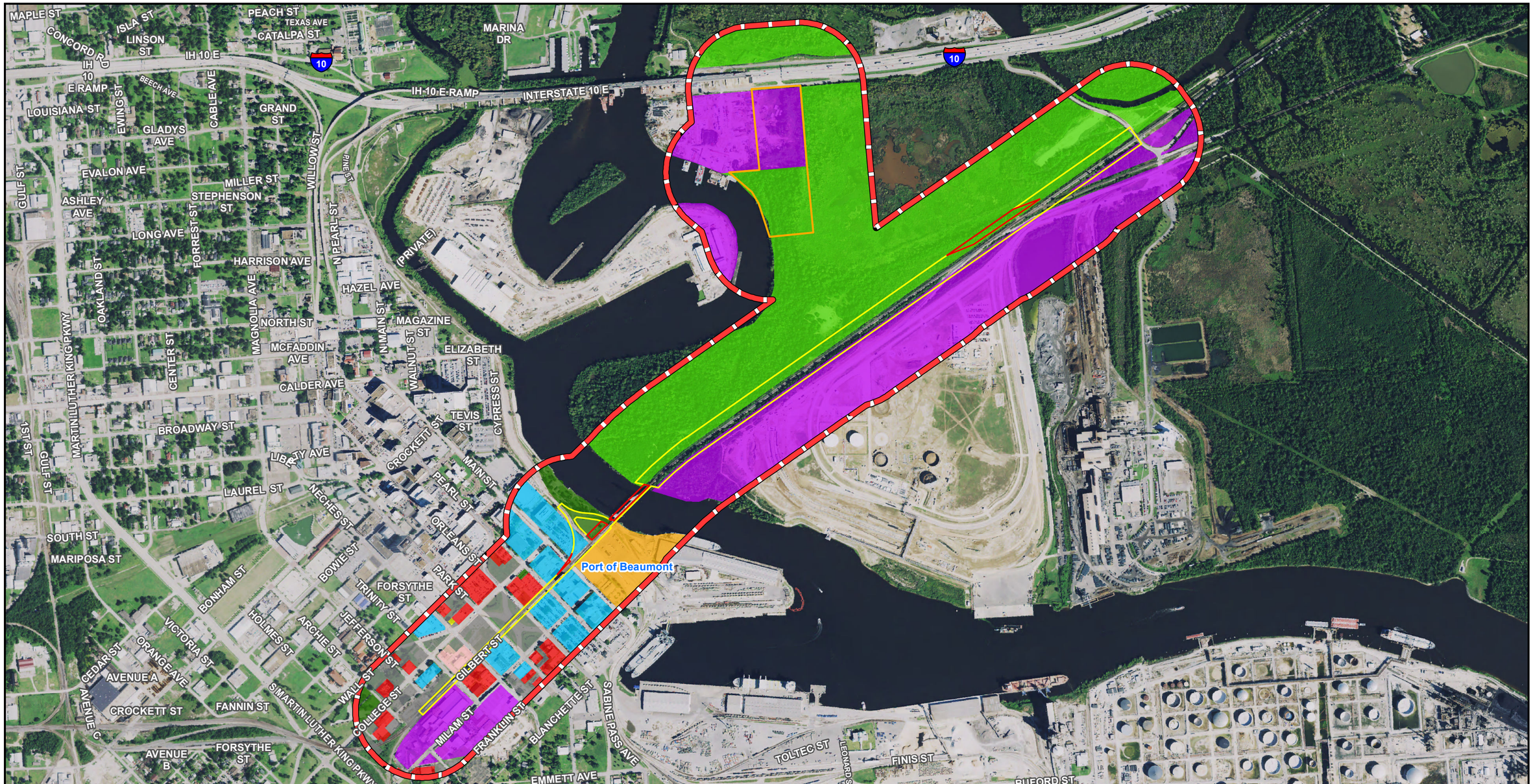
CONSTRUCTION LIMITS

Exhibit 2b

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



CIA Study Area
Proposed Right-of-Way
Existing Right-of-Way
Laydown Area

Land Use

Church
Civic
Commercial
Industrial
Industrial- Marsh Land
Park
Port of Beaumont
Residential- MF
Vacant

Sources: Jefferson County Appraisal District, 2015; Orange County Appraisal District, 2015

N

0 400 800 1,600
Feet

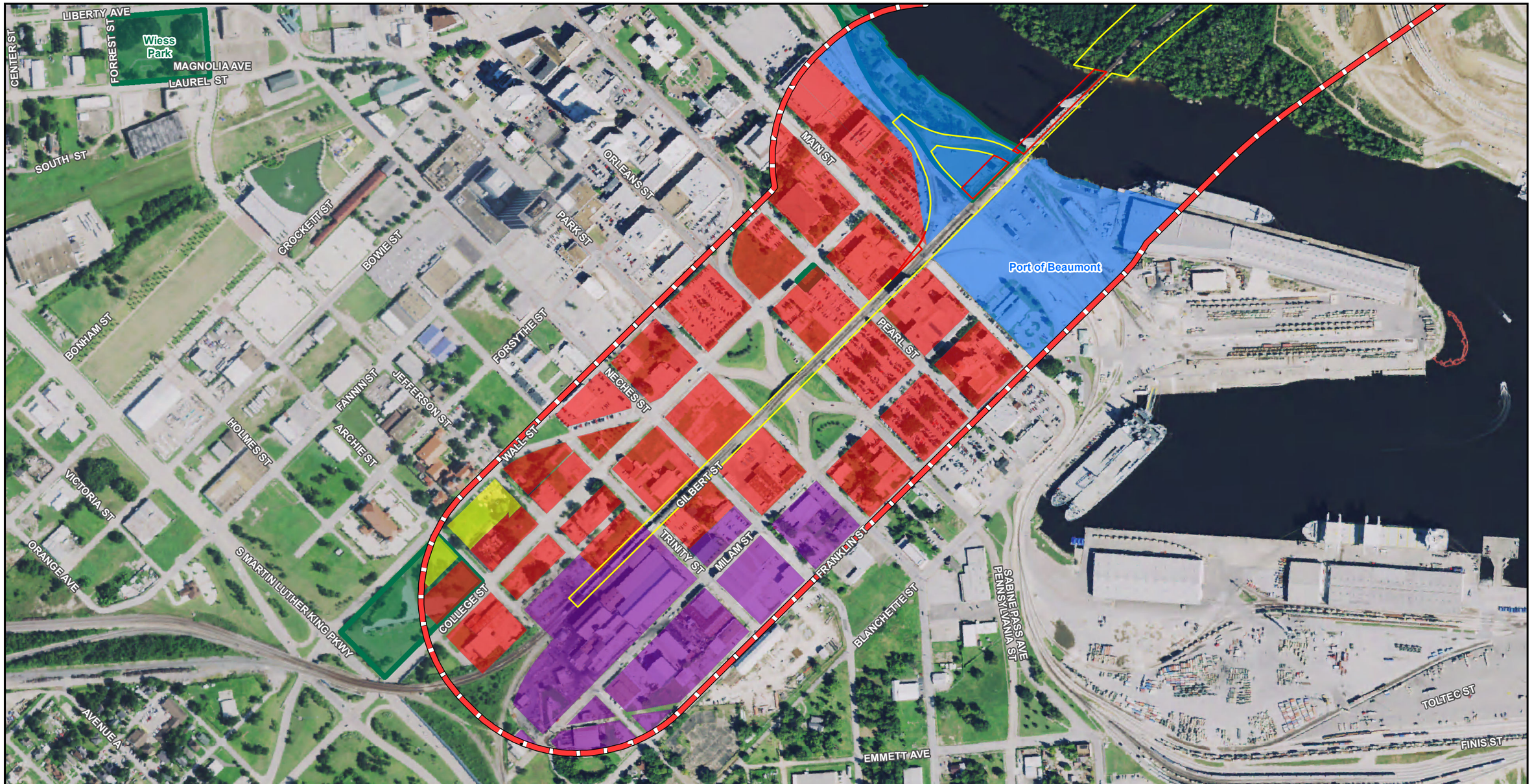
EXISTING LAND USE

Exhibit 3

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



CIA Study Area
Proposed Right-of-Way
Existing Right-of-Way

Zone

Central Business District
Light Industrial
Planned Development
Residential Conservation Revitalization District

Sources: City of Beaumont, 2015

N

0 175 350 700
Feet

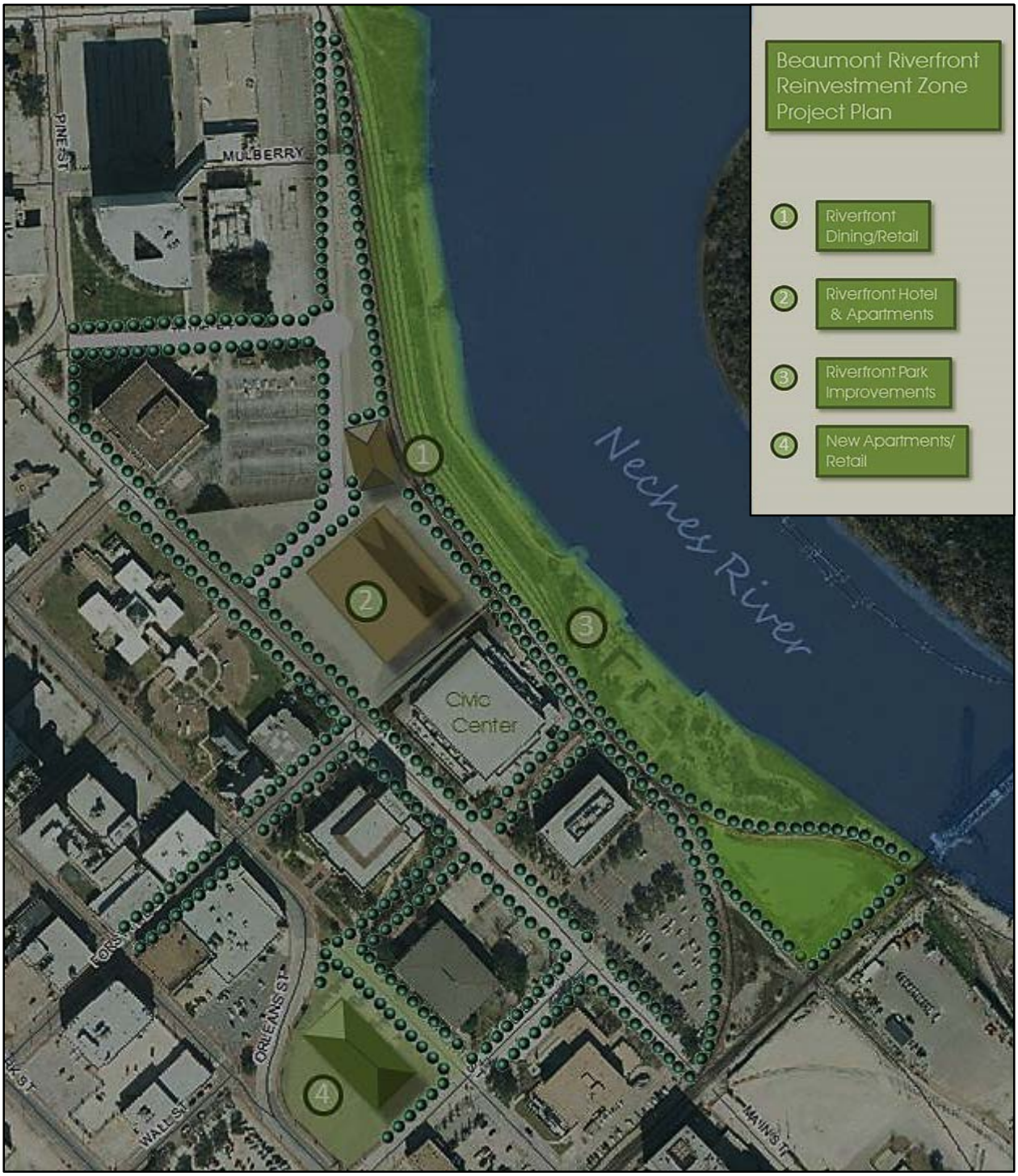
CITY OF BEAUMONT ZONING

Exhibit 4

Neches River Bridge Crossing

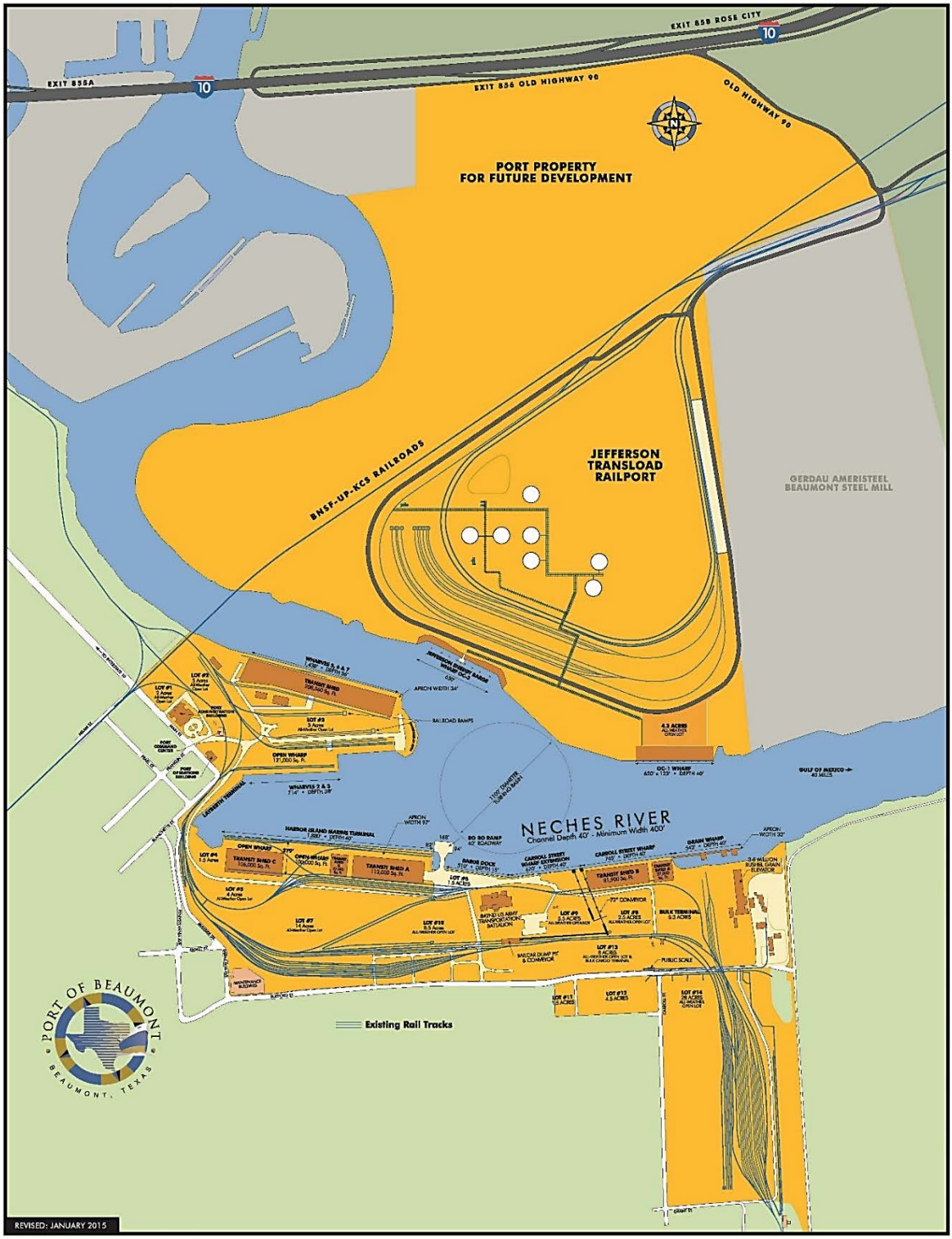
Jefferson and Orange Counties

CSJ: 7220-01-001



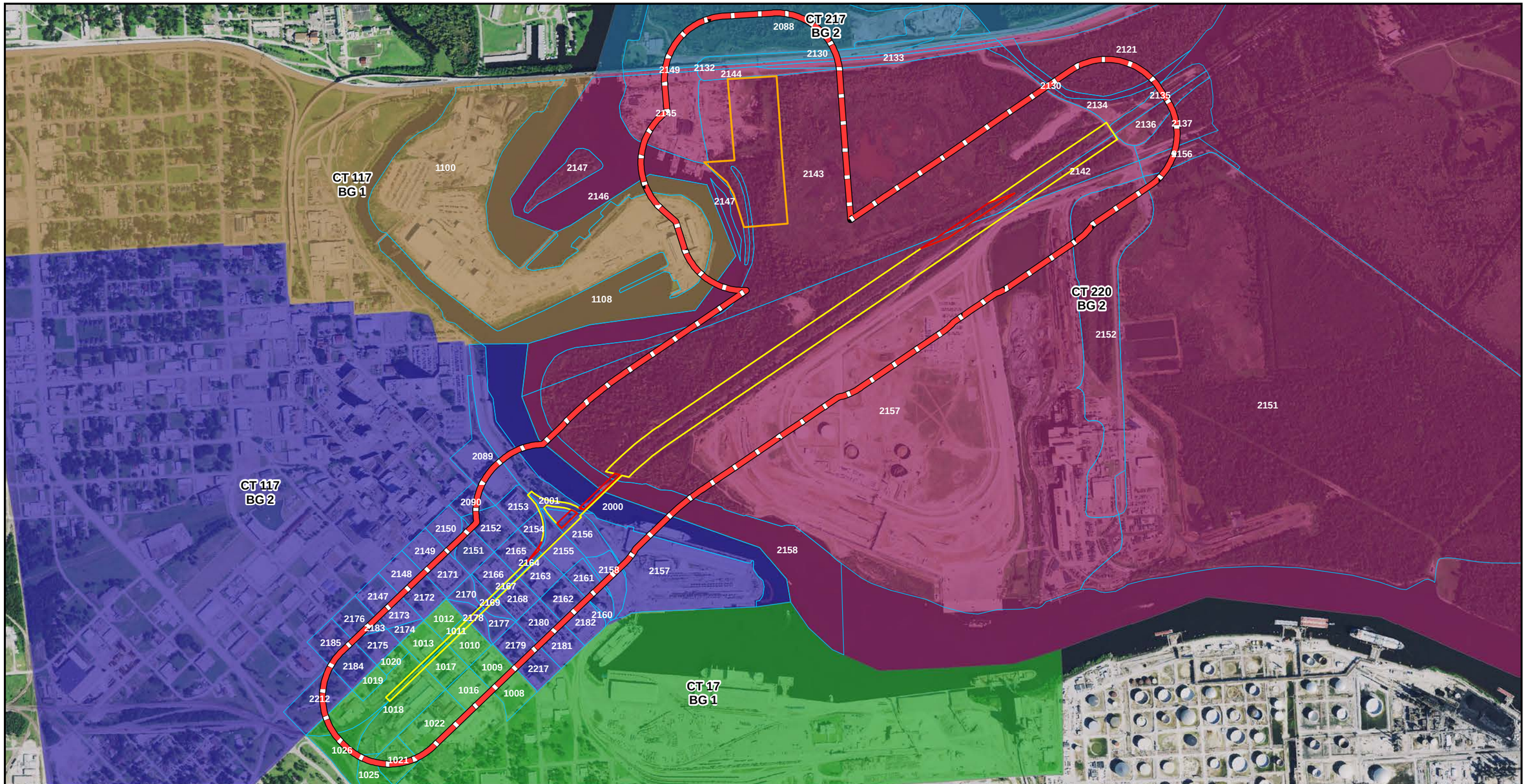
Source: City of Beaumont

CITY OF BEAUMONT RIVERFRONT REINVESTMENT ZONE
Exhibit 5



Source: Port of Beaumont, 2015

PORT OF BEAUMONT MASTER PLAN
Exhibit 6



CIA Study Area
Proposed Right-of-Way
Existing Right-of-Way
Laydown Area
Census Blocks

CT 117 BG 1
CT 117 BG 2
CT 17 BG 1
CT 217 BG 2
CT 220 BG 2

Sources: TNRIS, 2015; Study Team 2015.

N

0 400 800 1,600
Feet

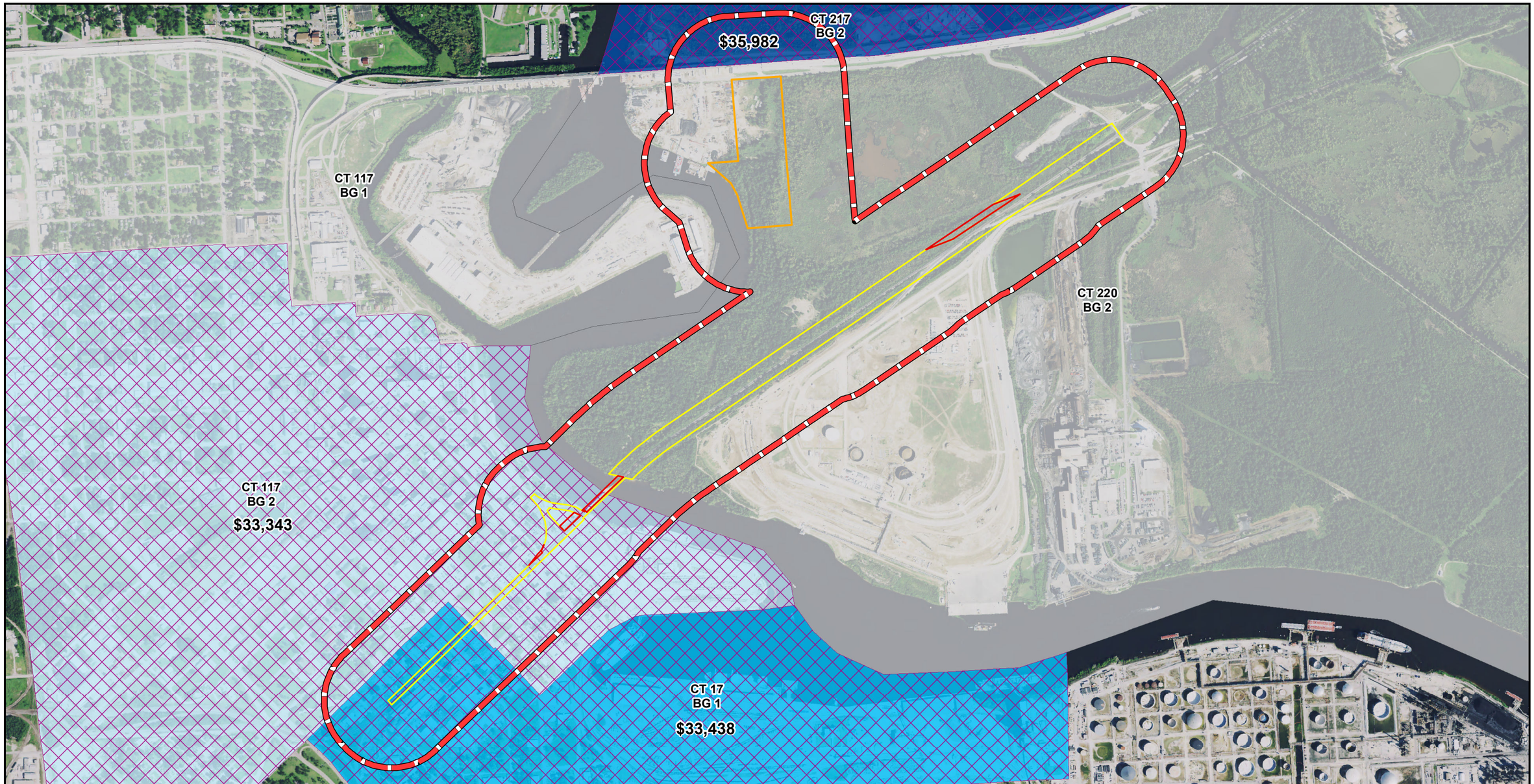
CENSUS BOUNDARIES

Exhibit 7

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



CIA Study Area
Proposed Right-of-Way
Existing Right-of-Way
Laydown Area
Unpopulated Block Groups

Median Household Income

> Poverty Guideline

Households Below Poverty Level

10% - 19%
20% - 29%
30% - 39%

Sources: TNRIS, 2015; US. Census Bureau; Study Team 2015.

N

0 400 800 1,600
Feet

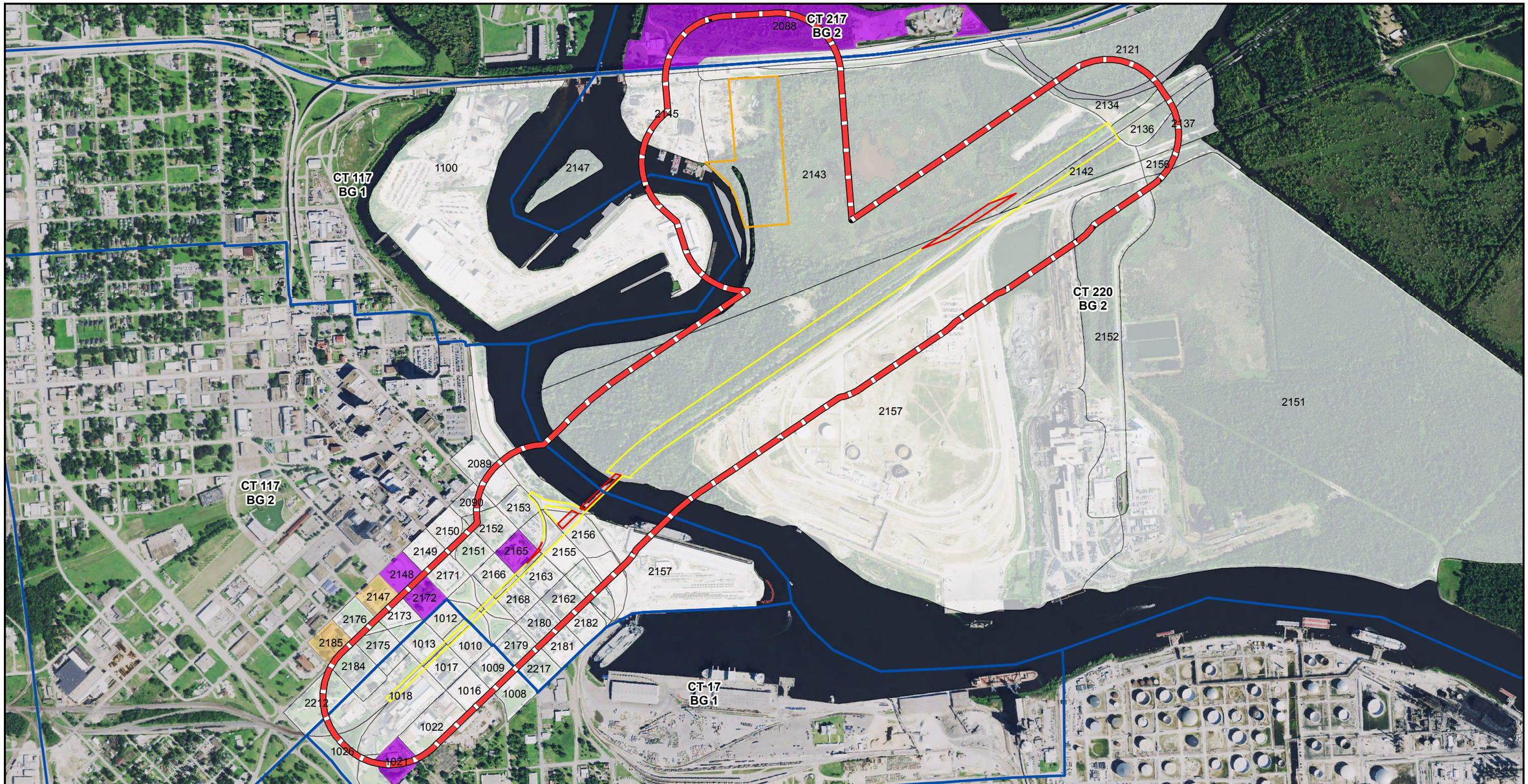
MEDIAN HOUSEHOLD INCOME/ HOUSEHOLDS BELOW POVERTY LEVEL

Exhibit 8

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



CIA Study Area
Proposed Right-of-Way
Existing Right-of-Way
Laydown Area
Block Groups

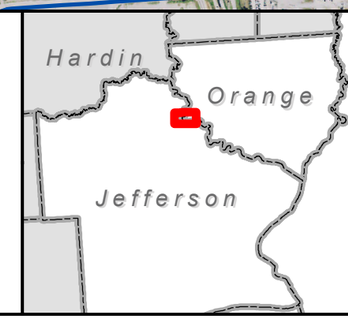
Percent Minority

≤ 50% Minority
> 50% Minority
Unpopulated Block

Sources: TNRIS, 2015; US. Census Bureau; Study Team 2015.

N

0 400 800 1,600
Feet



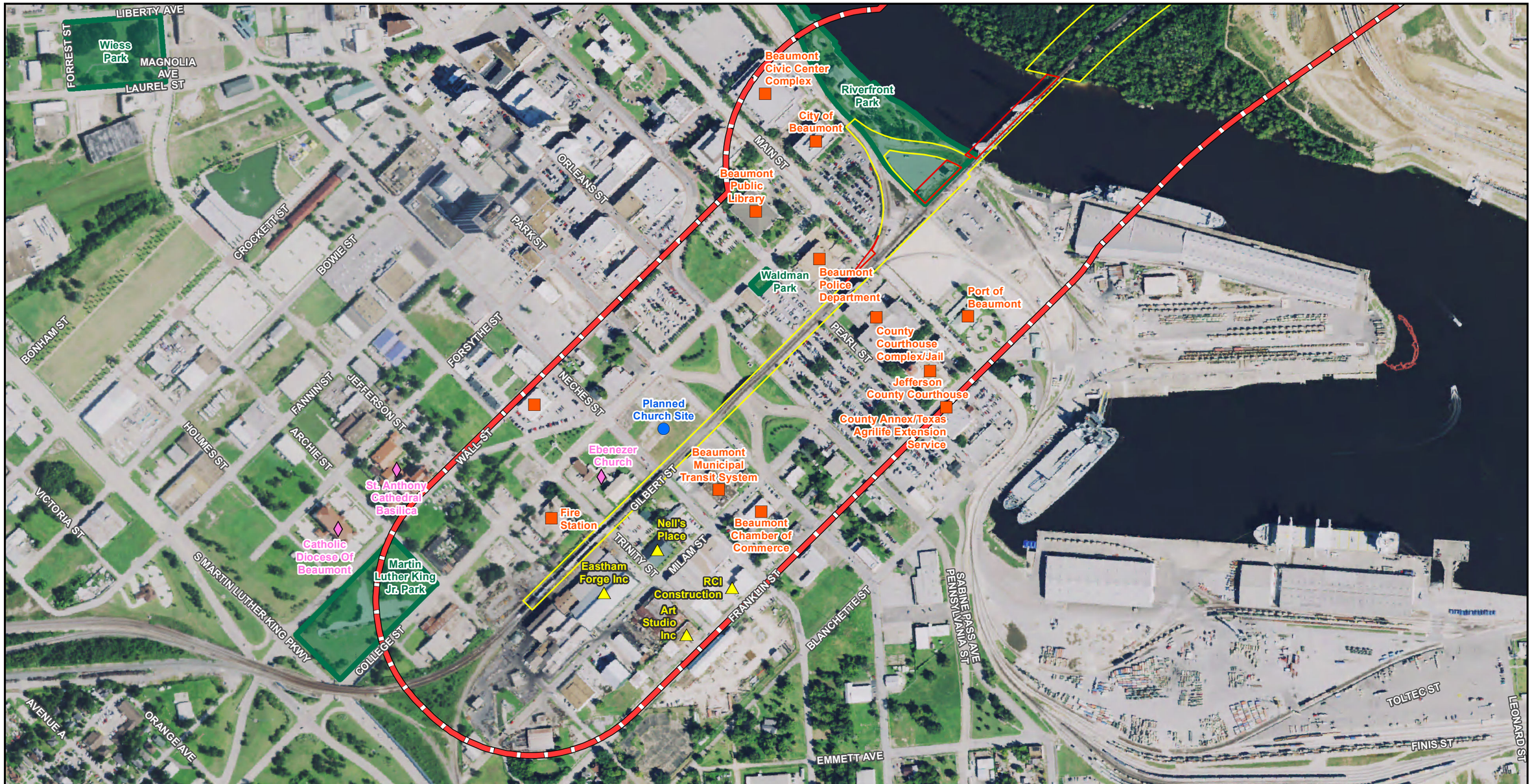
MINORITY POPULATIONS

Exhibit 9

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



CIA Study Area
Proposed Right-of-Way
Existing Right-of-Way
Park
Business
Municipal
Place of Worship
Planned Development

N

0 175 350 700
Feet

Sources: TNRIS, 2015; THC 2015; Study Team 2015.

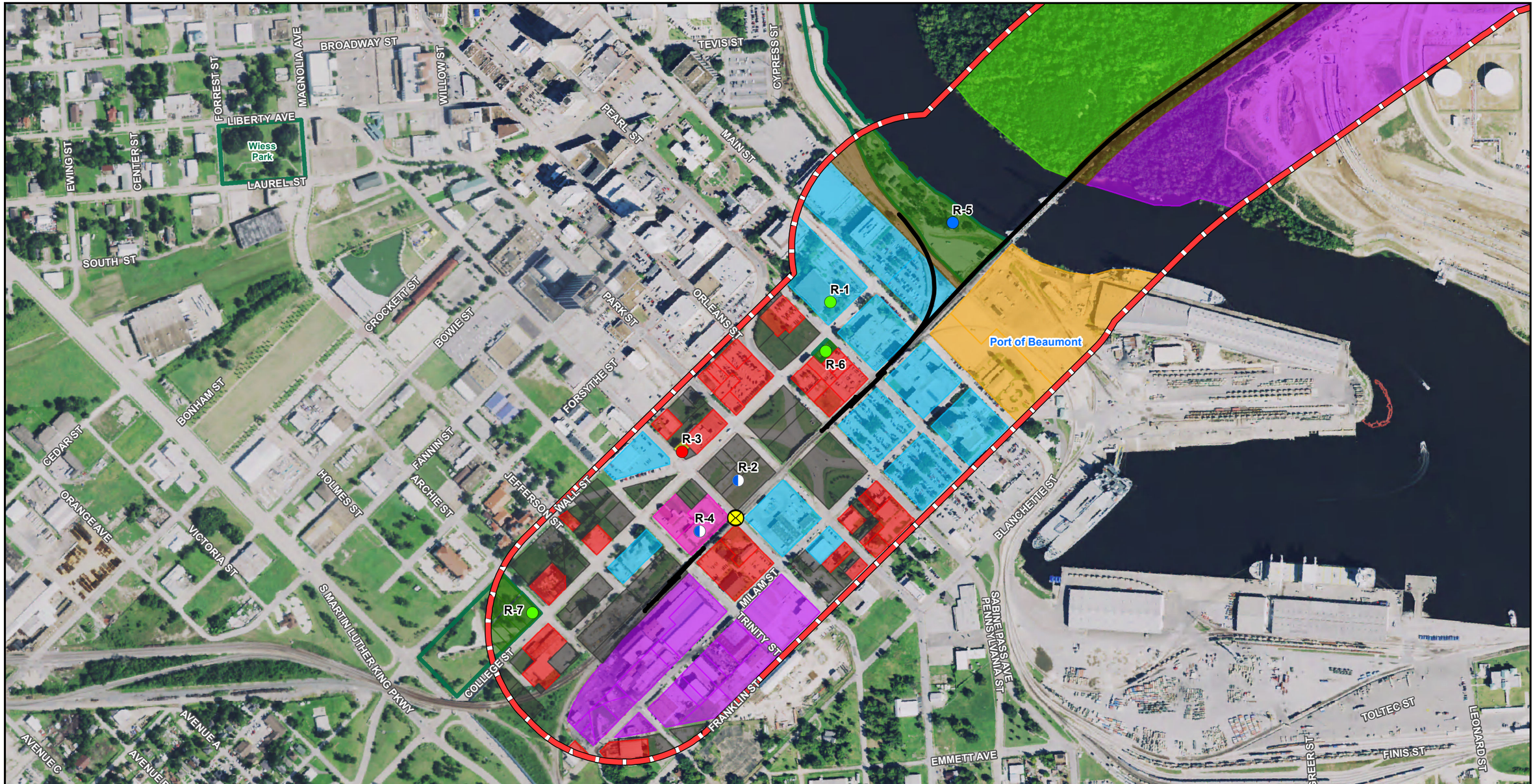
COMMUNITY RESOURCES

Exhibit 10

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



CIA Study Area

Build Alternative Centerline

Noise Receivers

- No Impact
- Moderate
- Moderate Noise Impact/Vibration Impact
- Severe Noise Impact

GradeCrossing

Land Use

- Church
- Civic
- Commercial
- Industrial
- Industrial- Marsh Land
- Park
- Port of Beaumont
- Railroad
- Residential- MF
- Vacant

Sources: Jefferson County Appraisal District, 2015; Orange County Appraisal District, 2015

N

0 200 400 800

Feet

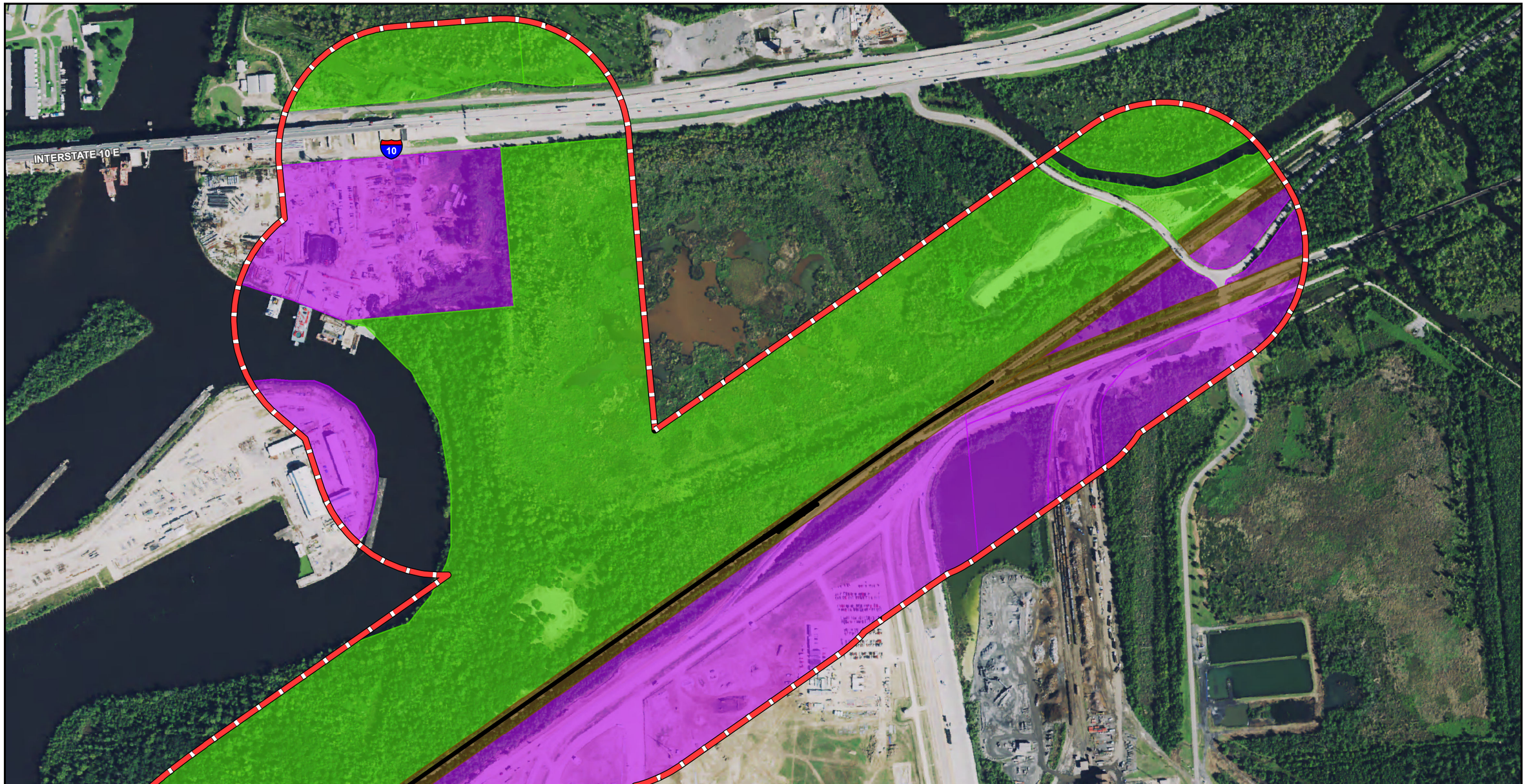
NOISE RECEIVERS

Exhibit 11a

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



CIA Study Area

Build Alternative Centerline

Noise Receivers

- No Impact
- Moderate
- Moderate Noise Impact/Vibration Impact
- Severe Noise Impact

GradeCrossing

Land Use

- Church
- Civic
- Commercial
- Industrial
- Industrial- Marsh Land
- Park
- Port of Beaumont
- Railroad
- Residential- MF
- Vacant

Sources: Jefferson County Appraisal District, 2015; Orange County Appraisal District, 2015

N

0 200 400 800

Feet

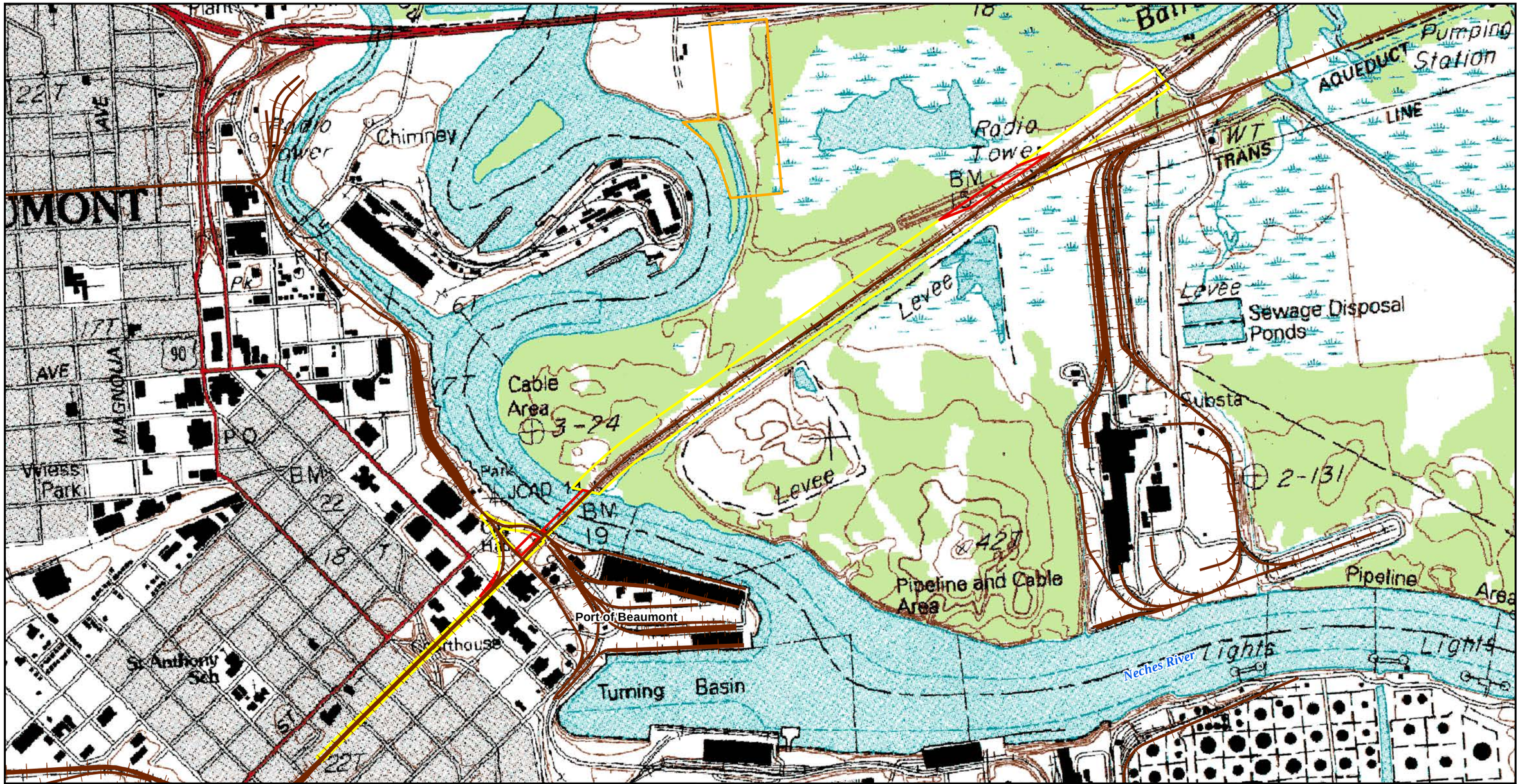
NOISE RECEIVERS

Exhibit 11b

Neches River Bridge Crossing

Jefferson and Orange Counties

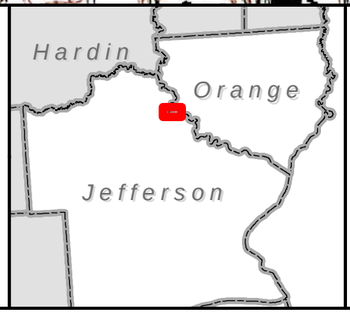
CSJ: 7220-01-001



Proposed Right-of-Way
Existing Right-of-Way
Laydown Area
Railroad

N

0 250 500 1,000
Feet



USGS TOPOGRAPHIC MAP

Exhibit 12

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001

Sources: USGS Beaumont East Quadrangle, 1994; USDOT 2015

Proposed Right-of-Way
Existing Right-of-Way
Laydown Area
Railroad

NRCS Soil Type

NeA
NecC
URLX
W

Sources: NRCS, 2015

N

0 125 250 500
Feet

NRCS SOILS WITHIN STUDY AREA

Exhibit 13a

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001

Proposed Right-of-Way
Existing Right-of-Way
Laydown Area
Railroad

NRCS Soil Type

NeA
NecC
URLX
W

Sources: NRCS, 2015

N

0 125 250 500
Feet

NRCS SOILS WITHIN STUDY AREA

Exhibit 13b

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001

Proposed Right-of-Way
Existing Right-of-Way
Laydown Area
Railroad
Sample Points

NWI Wetlands Type

PEM1F (Freshwater Emergent Wetland)
PEM1Fx (Freshwater Emergent Wetland)
PFO1A (Freshwater Forested)
PFO1C (Freshwater Forested)
PSS1A (Freshwater Scrub/Shrub)
PUBFx (Freshwater Pond)

Sources: NWI, 2015

N

0 125 250 500
Feet

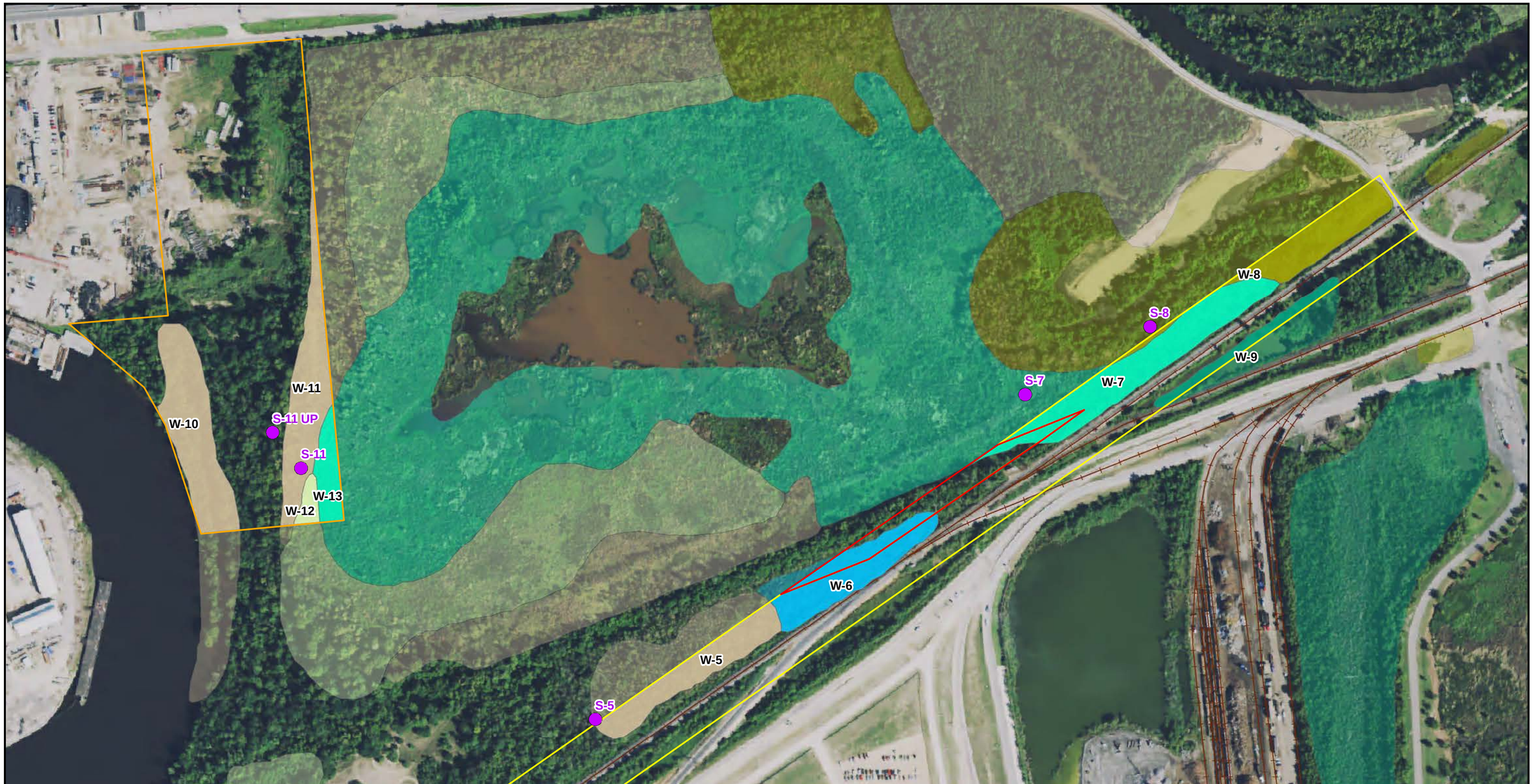
WETLANDS WITHIN STUDY AREA

Exhibit 14a

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



Proposed Right-of-Way
Existing Right-of-Way
Laydown Area
Railroad
Sample Points

NWI Wetlands Type

PEM1F (Freshwater Emergent Wetland)
PEM1Fx (Freshwater Emergent Wetland)
PFO1A (Freshwater Forested)
PFO1C (Freshwater Forested)
PSS1A (Freshwater Scrub/Shrub)
PUBFx (Freshwater Pond)

Sources: NWI, 2015

N

0 125 250 500
Feet

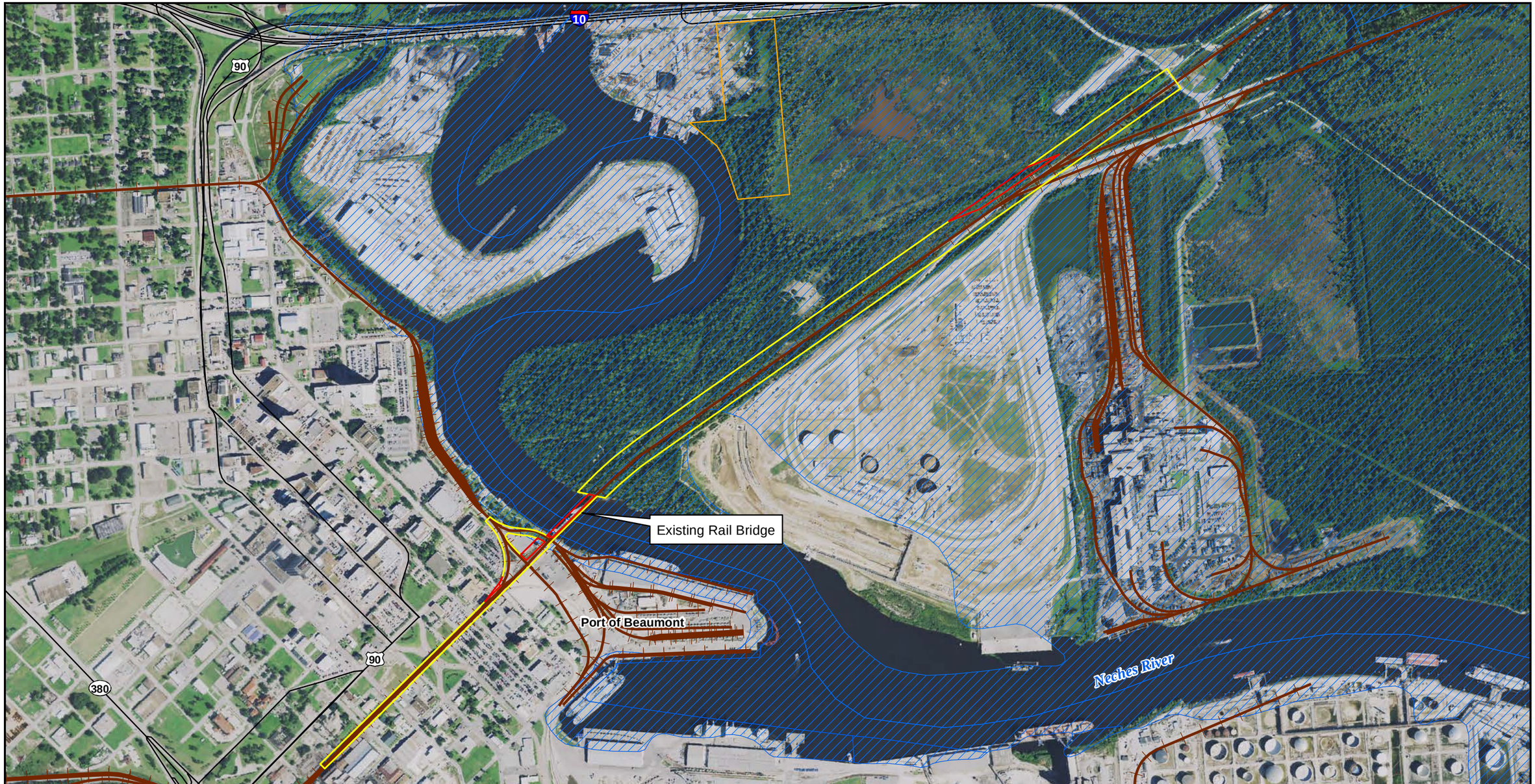
WETLANDS WITHIN STUDY AREA

Exhibit 14b

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



Proposed Right-of-Way
Existing Right-of-Way
Laydown Area
100-year Flood Zone
Railroad

Sources: FEMA 2015; USDOT 2015.

N

0 375 750 1,500
Feet

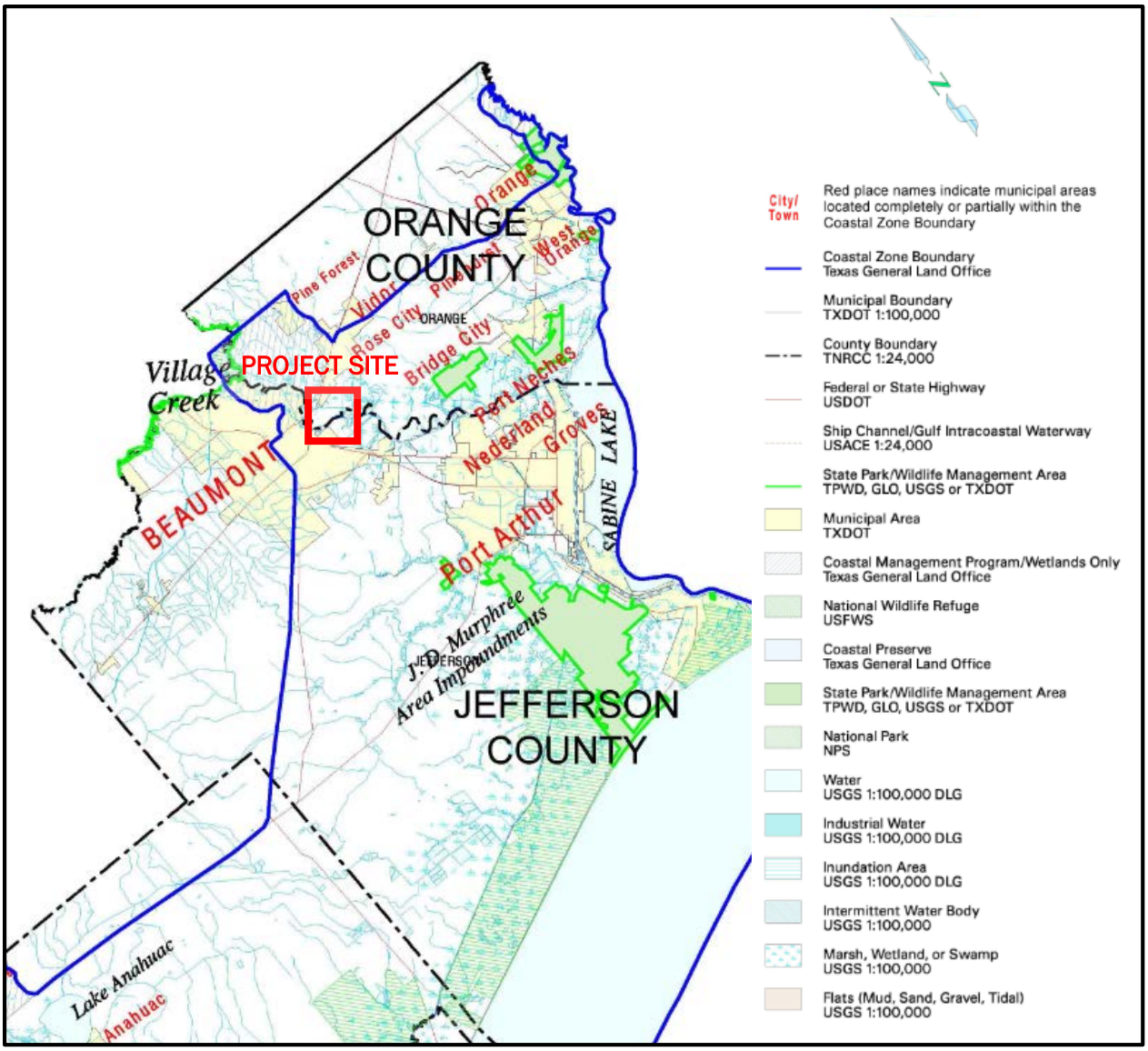
FEMA 100-YEAR FLOODPLAINS

Exhibit 15

Neches River Bridge Crossing

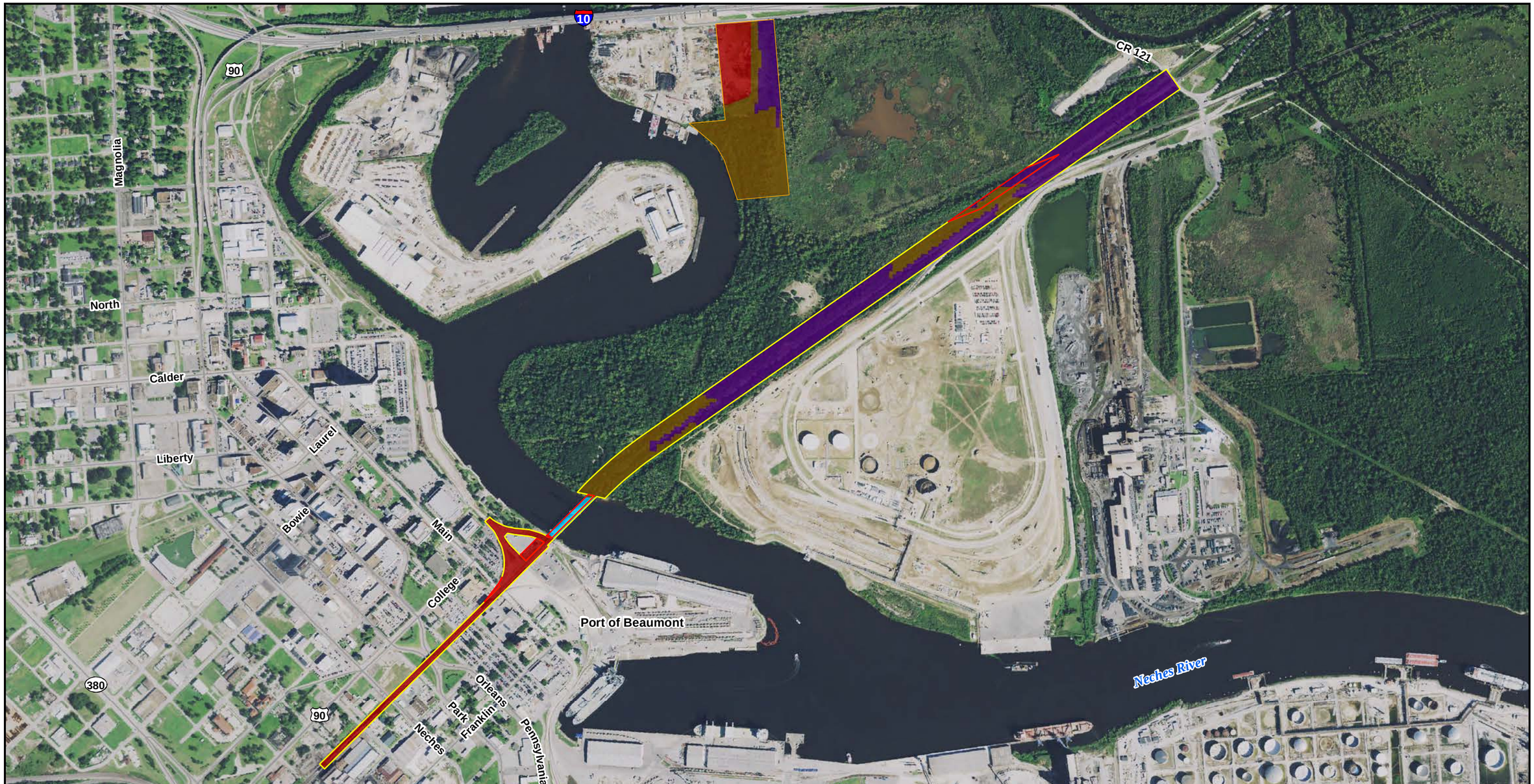
Jefferson and Orange Counties

CSJ: 7220-01-001



Source: TGLO

TEXAS COASTAL MANAGEMENT PROGRAM BOUNDARY MAP
Exhibit 16



Proposed Right-of-Way
Existing Right-of-Way
Laydown Area

Field Verified EMST

- Urban High Intensity
- Open Water
- Chenier Plain: Mixed Live Oak - Deciduous Hardwood Fringe Forest
- Non-Native Invasive: Chinese Tallow Forest, Woodland, or Shrubland

Sources: TPWD EMST 2015; Study Team 2016; NAIP 2014 Aerials.

N

0 250 500 1,000
Feet

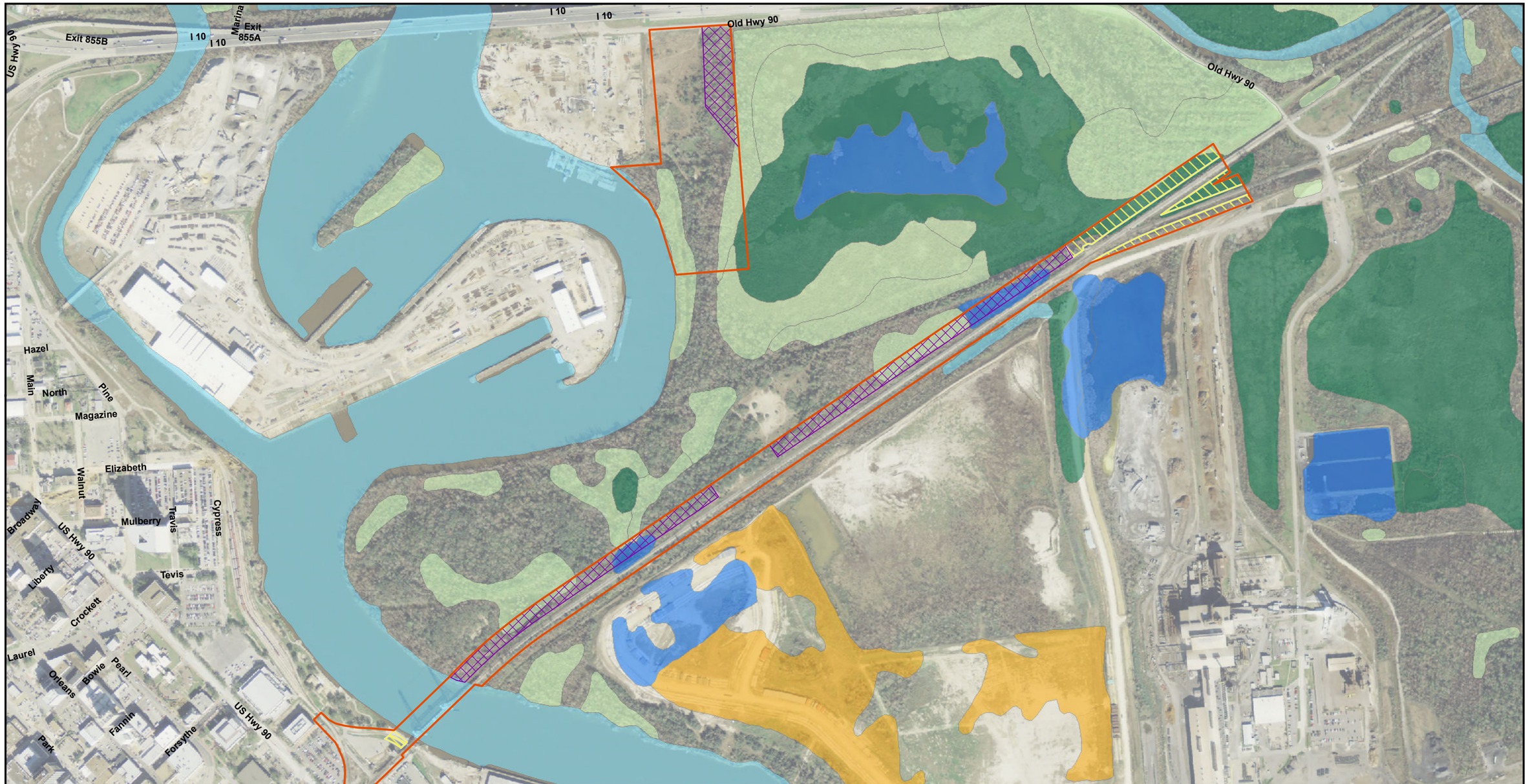
FIELD VERIFIED ECOLOGICAL MAPPING SYSTEMS OF TEXAS (EMST)

Exhibit 17

Neches River Bridge Crossing

Jefferson and Orange Counties

CSJ: 7220-01-001



APE
Inaccessed Areas of APE Recommended for Survey
Surveyed Segments of APE
Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Other
Riverine

Sources: USDA-NRCS 2007; Study Team 2015.

N

0 175 350 700
Feet

0 50 100 200
Meters

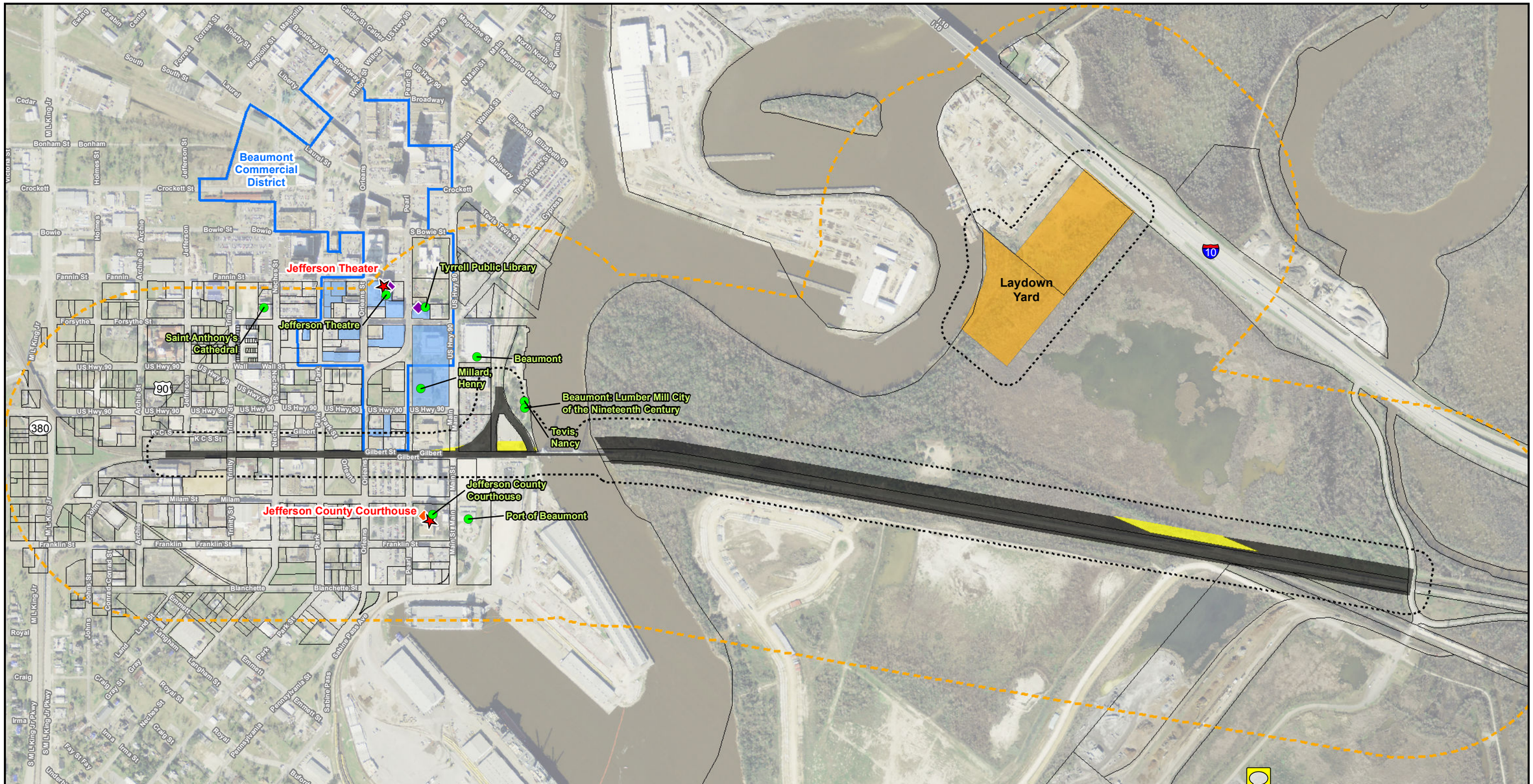
AREA OF POTENTIAL EFFECTS (APE) FOR ARCHEOLOGY

Exhibit 18

Neches River Bridge

Jefferson and Orange Counties

CSJ: 7220-01-001



- Historical Markers
- NRHP-listed Properties
- RTHLs
- SALs
- 1/4 Mile Buffer
- 150 ft APE
- Contributing Historic District Parcels*
- Parcels
- NRHP-listed Historic District
- Existing ROW
- Proposed ROW
- Temporary Easement

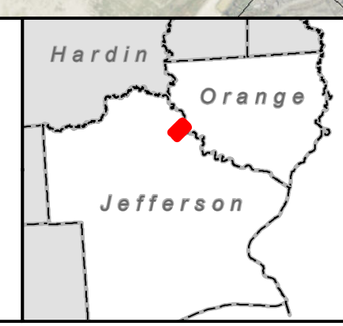
Sources: Study Team 2015.

*Demolished contributing structures not shown

N

0 200 400 800
Feet

0 60 120 240
Meters



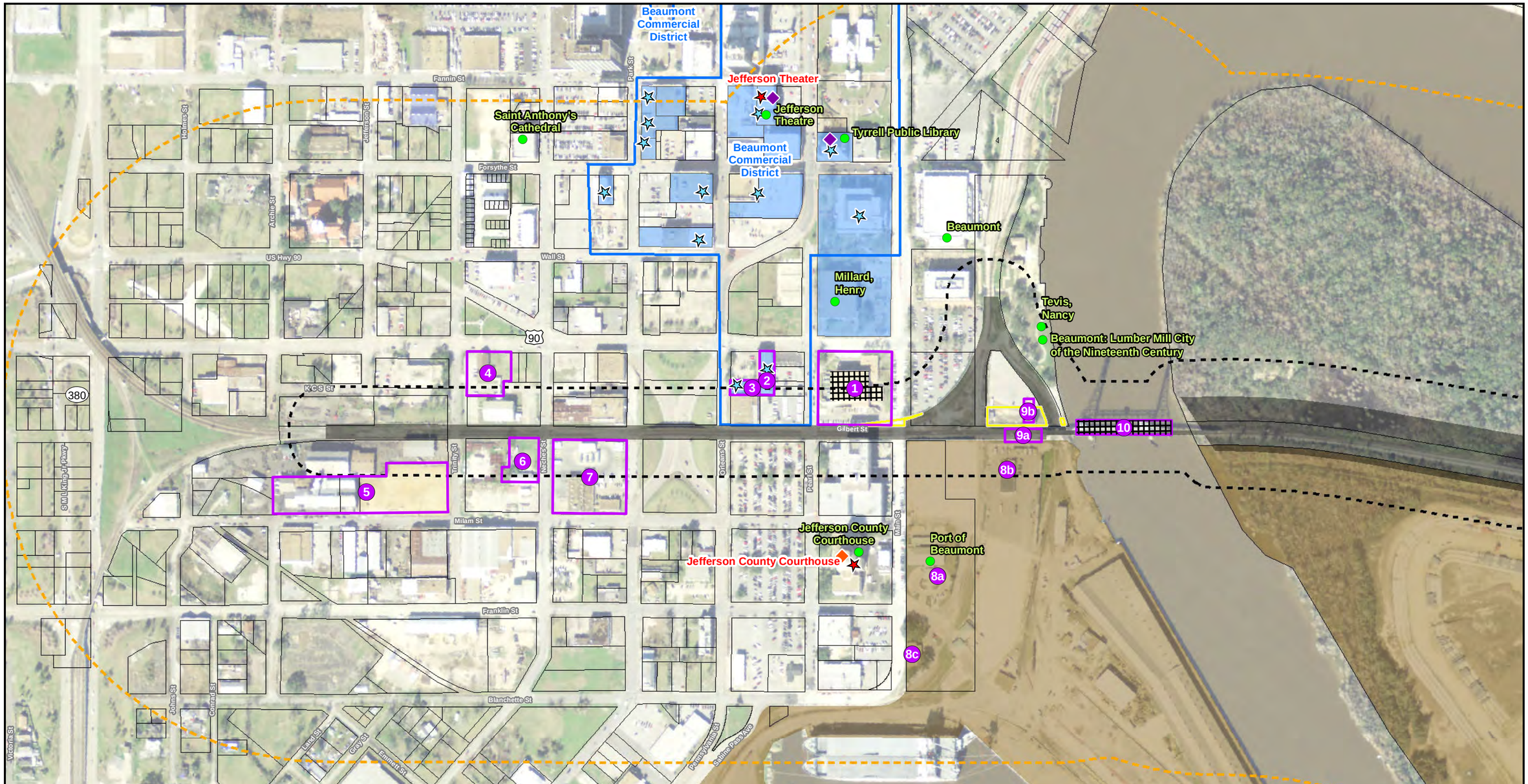
AREA OF POTENTIAL EFFECTS (APE) FOR HISTORIC

Exhibit 19

Neches River Bridge

Jefferson and Orange Counties

CSJ: 7220-01-001

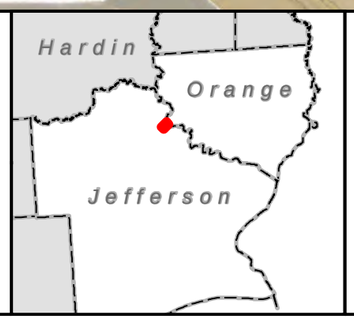


- Historical Markers (OTHM)
- NRHP-listed Properties
- Contributing Historic District Properties
- RTHLs
- SALs
- NRHP-listed Historic District
- Contributing Historic District Parcels*
- Parcels
- 1/4 Mile Buffer
- 150ft APE
- Existing ROW
- Proposed ROW
- Temporary Easement
- Port of Beaumont
- Historic-age Resources
- NRHP Eligible Resources

N

0 100 200 400
Feet

0 30 60 120
Meters



HISTORIC-AGE RESOURCES SURVEY MAPS

Exhibit 20a

Neches River Bridge

Jefferson and Orange Counties

CSJ: 7220-01-001

Historical Markers (OTHM)
NRHP-listed Properties
Contributing Historic District Properties
RTHLs
SALs
NRHP-listed Historic District
Contributing Historic District Parcels*
Parcels
1/4 Mile Buffer
150ft APE
Existing ROW
Proposed ROW
Temporary Easement
Port of Beaumont
Historic-age Resources
NRHP Eligible Resources

N

0 100 200 400
Feet

0 30 60 120
Meters

HISTORIC-AGE RESOURCES SURVEY MAPS

Exhibit 20b

Neches River Bridge

Jefferson and Orange Counties

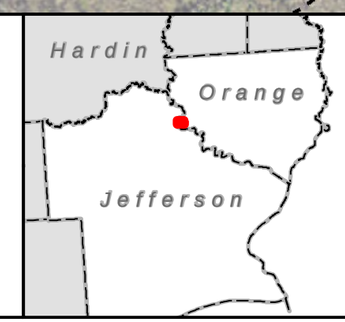
CSJ: 7220-01-001

Historical Markers (OTHM)
NRHP-listed Properties
Contributing Historic District Properties
RTHLs
SALs
NRHP-listed Historic District
Contributing Historic District Parcels*
Parcels
1/4 Mile Buffer
150ft APE
Existing ROW
Proposed ROW
Temporary Easement
Port of Beaumont
Historic-age Resources
NRHP Eligible Resources

N

0 100 200 400
Feet

0 30 60 120
Meters



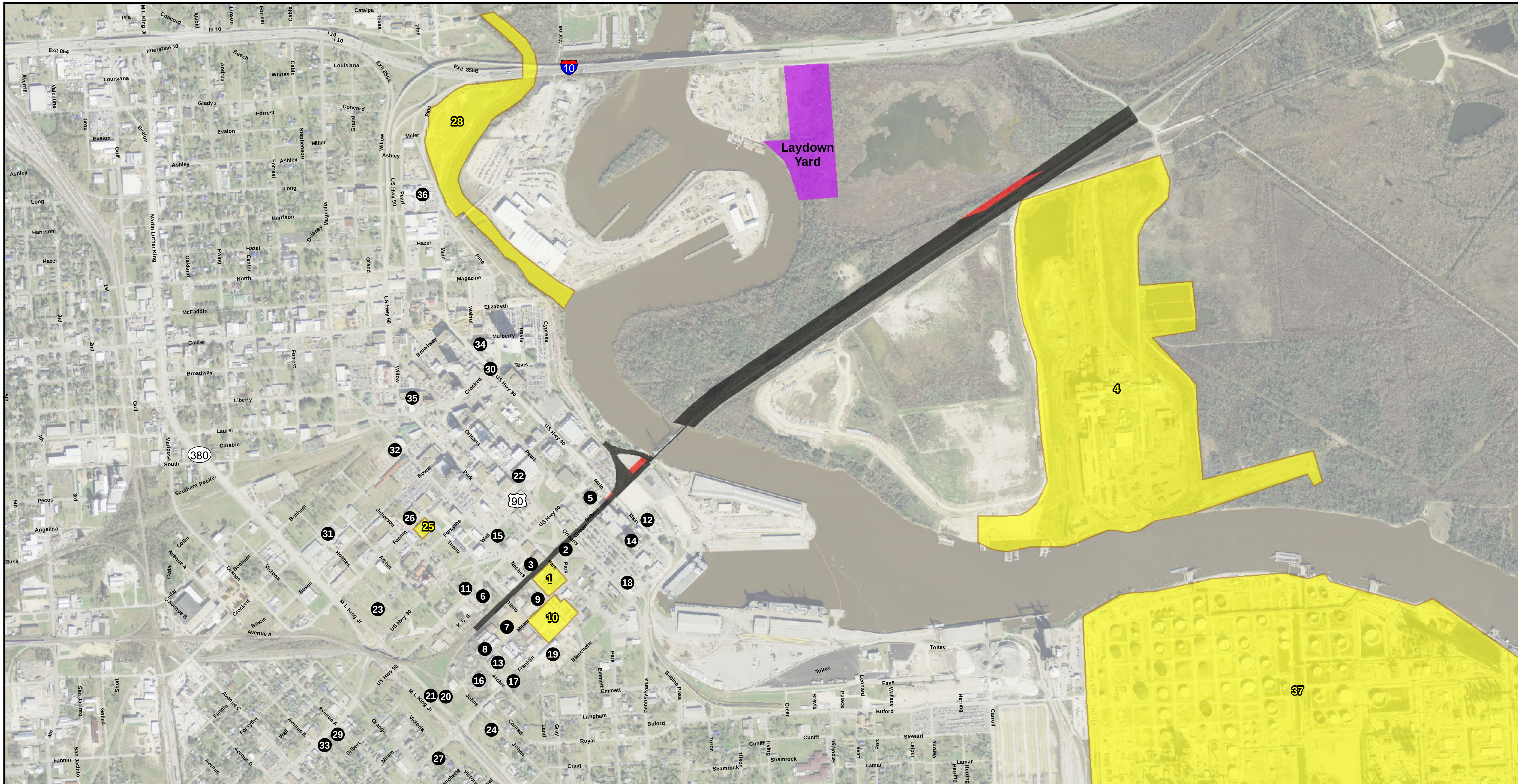
HISTORIC-AGE RESOURCES SURVEY MAPS

Exhibit 20c

Neches River Bridge

Jefferson and Orange Counties

CSJ: 7220-01-001



- Hazard Materials Sites (points)
- Existing ROW
- Proposed ROW
- Hazard Materials Sites (poly)
- Temporary Easement

Sources: Study Team 2015.

N

0 300 600 1,200
Feet

0 100 200 400
Meters

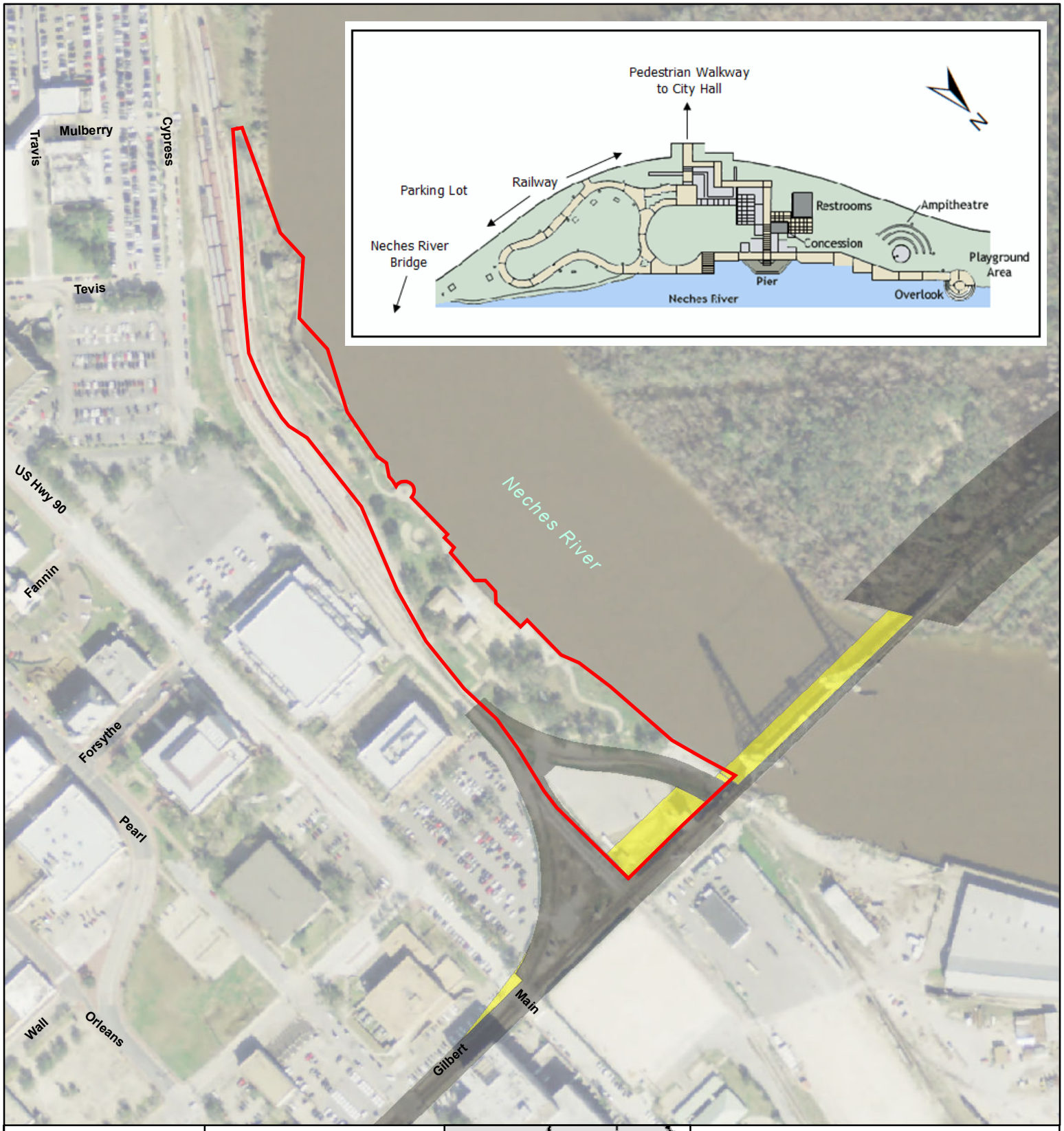
HAZARDOUS MATERIALS SITES

Exhibit 21

Neches River Bridge

Jefferson and Orange Counties

CSJ: 7220-01-001

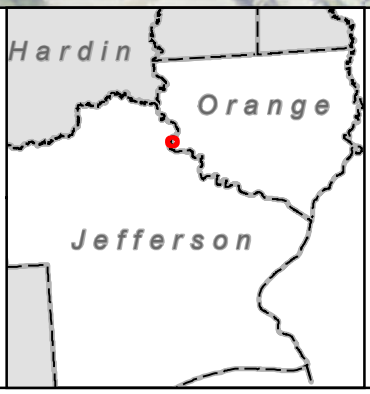


Legend

- Riverfront Park
- Existing ROW
- Proposed ROW

N

0 150 300
Feet



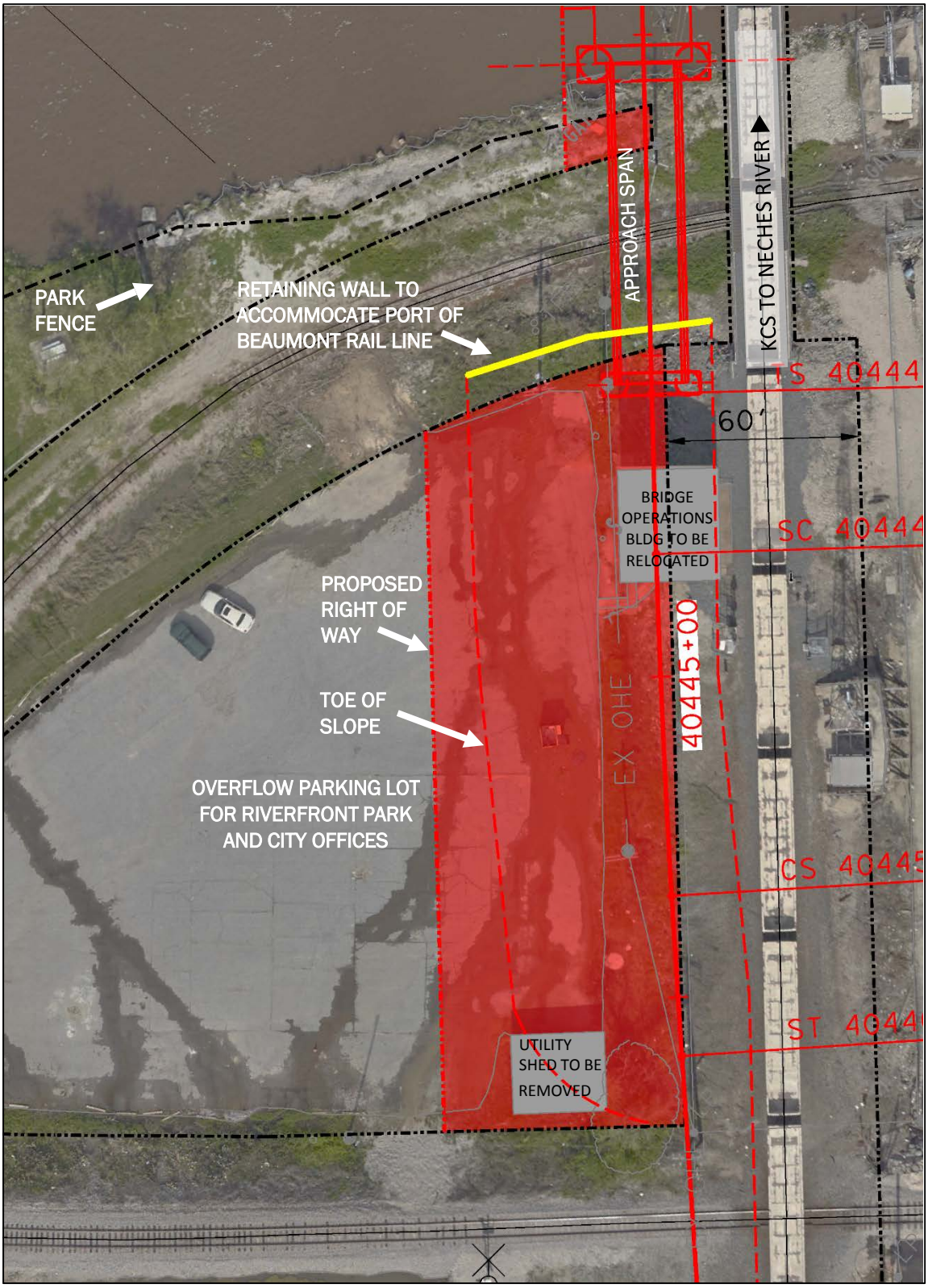
RIVERFRONT PARK BOUNDARY AND FACILITIES

Exhibit 22

Neches River Bridge

Jefferson and Orange Counties

CSJ: 7220-01-001



RELATIONSHIP OF BUILD ALTERNATIVE TO RIVERFRONT PARK

Exhibit 23