Presentation Outline

- TIRZ 17 RDS Background
- W140-01-00 Briar Branch
- W151-00-00
- W153-00-00
- Summary
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Background

- **Builds on HCFCD W151 Study Released in 2009**
  - Expanded to include W153 and W140-01-00
  - Detailed analysis of storm sewer
  - Overland flow analysis
- **Addresses Regional Drainage Issues**
  - Interconnected Systems
    - W151 and W140-01 (Briar Branch)
  - System and Basin Overflow
    - W151 to W153
Background

- **Builds on HCFCD W151 Study Released in 2009**
  - Expanded to include W153 and W140-01-00
  - Detailed analysis of storm sewer
  - Overland flow analysis

- **Addresses Regional Drainage Issues**
  - Interconnected Systems
    - W151 and W140-01 (Briar Branch)
  - System and Basin Overflow
    - W151 to W153
Background

- Builds on HCFCD W151 Study Released in 2009
  - Expanded to include W153 and W140-01-00
  - Detailed analysis of storm sewer
  - Overland flow analysis

- Addresses Regional Drainage Issues
  - Interconnected Systems
    - W151 and W140-01 (Briar Branch)
  - System and Basin Overflow
    - W151 to W153
Builds on HCFCD W151 Study Released in 2009
- Expanded to include W153 and W140-01
- Detailed analysis of storm sewer– Overland flow analysis

Addresses Regional Drainage Issues
- Interconnected Systems
  - W151 and W140-01 (Briar Branch)
  - System and Basin Overflow
  - W151 to W153

Background

TIRZ 17 RDS
Background

- **Builds on HCFCD W151 Study Released in 2009**
  - Expanded to include W153 and W140-01-00
  - Detailed analysis of storm sewer
  - Overland flow analysis

- **Addresses Regional Drainage Issues**
  - Interconnected Systems
    - W151 and W140-01 (Briar Branch)
  - System and Basin Overflow
    - W151 to W153

- **Goal:**
  - Identify cost effective solutions that benefit the community at large with a focus on TIRZ 17 CIP projects
Background

- Multiple Jurisdictions
  - TIRZ 17
  - City of Houston
  - Bunker Hill Village
  - Hedwig Village
  - HCFCD
  - TxDOT

Legend
- TIRZ 17
- Houston City Limits
- Bunker Hill Village
- Hedwig Village
- Spring Valley
- HCFCD Channels

DRAFT  PRELIMINARY  SUBJECT TO CHANGE  JUNE 29, 2011
Public Involvement

- Stakeholder Meetings
  - 6 Conducted
- Drainage Questionnaire
  - 435 Received
Public Involvement

- Stakeholder Meetings
  - 6 Conducted
- Drainage Questionnaire
  - 435 Received
Public Involvement

- **Stakeholder Meetings**
  - 6 Conducted
- **Drainage Questionnaire**
  - 435 Received

Surveyed High Water Marks

- Structural Flooding Reports
  - Confirmed
  - Unconfirmed
Presentation Outline

- TIRZ 17 RDS Background
- W140-01-00 Briar Branch
- W151-00-00
- W153-00-00
- Summary
Existing Conditions

10-Year 24-Hour Storm Event

Legend

- TIRZ 17
- Storm Sewer
- HCFCD Channels
- Depth of Ponding (ft)

- <0.25
- 0.25 - 0.50
- 0.50 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- >5.0

6/29/2011
Proposed Conditions

W140-01-00
Briar Branch

10-Year 24-Hour Storm Event

Legend

- TIRZ 17
- Storm Sewer
- HCFCFD Channels
- TIRZ 17 Projects
  - Standard Conveyance
  - Channel Improvements
  - Detention Locations
- Projects by Others
  - Standard Conveyance
  - Channel Improvements
  - Detention Locations

Depth of Ponding (ft)

- <0.25
- 0.25 - 0.50
- 0.50 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- >5.0
- Existing Ponding Extent

6/29/2011
- Detention Maximizes 10yr Benefits of Proposed Conveyance Alternatives
- Direct Benefit to TIRZ 17 CIP Projects
  - Gessner/Witte
- Direct Benefit to Adjacent Communities
- Direct Benefit to W151 Watershed
- Indirect Benefit to W153 Watershed
Briar Branch Improvements

- Detention Maximizes 10yr Benefits of Proposed Conveyance Alternatives
- Direct Benefit to TIRZ 17 CIP Projects
  - Gessner/Witte
- Direct Benefit to Adjacent Communities
- Direct Benefit to W151 Watershed
- Indirect Benefit to W153 Watershed
Proposed Detention Pond Data

Approx. Site Area = 8 acres

Approx. Volume = 40-44 ac-ft
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W151-00-00 Major Infrastructure

Connection from W140

Over Land Flow to W153

Legend
- TIRZ 17
- Storm Sewer
- HCFCD Channels
- Depth of Ponding (ft)
  - <0.25
  - 0.25 - 0.50
  - 0.50 - 1.0
  - 1.0 - 2.0
  - 2.0 - 5.0
  - >5.0
Proposed Conditions

10-Year 24-Hour Storm Event

Legend

- TIRZ 17 Projects
- Standard Conveyance
- Channel Improvements
- Detention Locations
- Projects by Others

- Standard Conveyance
- Channel Improvements
- Detention Locations

Depth of Ponding (ft)

- <0.25
- 0.25 - 0.50
- 0.50 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- >5.0

Existing Ponding Extent

Detention Required on Buffalo Bayou

Subject to Change

JUNE 29, 2011
### Presentation Outline

- TIRZ 17 RDS Background
- W140-01-00 Briar Branch
- W151-00-00
- W153-00-00
- Summary
W153-00-00 Major Infrastructure

Over Land Flow From W151

Legend
- TIRZ 17
- Storm Sewer
- HCFCD Channels

Depth of Ponding (ft)
- <0.25
- 0.25 - 0.50
- 0.50 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- >5.0

DRAFT  PRELIMINARY  SUBJECT TO CHANGE

6/29/2011
Proposed Conditions

10-Year 24-Hour Storm Event

Legend
- TIRZ 17
- Storm Sewer
- HCFCDA Channels
- TIRZ 17 Projects
  - Standard Conveyance
  - Channel Improvements
  - Detention Locations
- Projects by Others
  - Standard Conveyance
  - Channel Improvements
  - Detention Locations

Depth of Ponding (ft):  
- <0.25
- 0.25 - 0.50
- 0.50 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- >5.0

Existing Ponding Extent

DETENTION REQUIRED ON BUFFALO BAYOU

JUNE 29, 2011

DRAFT
PRELIMINARY
SUBJECT TO CHANGE

6/29/2011
Presentation Outline

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### Typical Project Schedule Summary

#### Activity Name | Duration | Year One | Year Two | Year Three
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<tr>
<th></th>
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<tbody>
<tr>
<td>PER</td>
<td>6 Months</td>
<td>1/2/12</td>
<td>6/29/12</td>
<td>6/29/12</td>
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<tr>
<td>Final Design</td>
<td>9 Months</td>
<td>6/30/12</td>
<td>3/26/13</td>
<td>3/26/13</td>
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<tr>
<td>Construction</td>
<td>18 Months</td>
<td>6/26/13</td>
<td>12/17/14</td>
<td>12/17/14</td>
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<td>TIRZ 17 CIP ID</td>
<td>Description</td>
<td>Construction Cost</td>
<td>Implementation Date</td>
<td>Project Phase</td>
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<tr>
<td>T-1718</td>
<td>Kimberley Improvements</td>
<td>$3,600,000</td>
<td>2011</td>
<td>Construction</td>
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<td>T-1731A</td>
<td>W140-01-00 Briar Branch Detention</td>
<td>$8,400,000</td>
<td>2012</td>
<td>Preliminary Engineering</td>
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<tr>
<td>T-1715</td>
<td>Barryknoll Lane Improvements</td>
<td>$10,400,000</td>
<td>2012/2013</td>
<td>Preliminary Engineering</td>
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<td>T-1726</td>
<td>West Bough Improvements</td>
<td>$3,700,000</td>
<td>2013</td>
<td>Not Started</td>
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<tr>
<td>T-1732A/B</td>
<td>North Gessner Improvements</td>
<td>$9,900,000</td>
<td>2014</td>
<td>Preliminary Engineering</td>
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<tr>
<td>T-1733A/B</td>
<td>North Witte Improvements</td>
<td>$7,000,000</td>
<td>2014</td>
<td>Preliminary Engineering</td>
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<tr>
<td>T-1731B</td>
<td>Memorial Drive Improvements</td>
<td>$8,200,000</td>
<td>2014</td>
<td>Preliminary Engineering</td>
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<tr>
<td>T-1714</td>
<td>Frostwood/Kingsride Improvements</td>
<td>$5,400,000</td>
<td>2014</td>
<td>Not Started</td>
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<td><strong>Total</strong></td>
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<td><strong>$56,600,000</strong></td>
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Information Open House in the Lobby
Following This Presentation