

VOLUME 2
Appendix 5-E

REGION 5 NECHES 2023 REGIONAL FLOOD PLAN

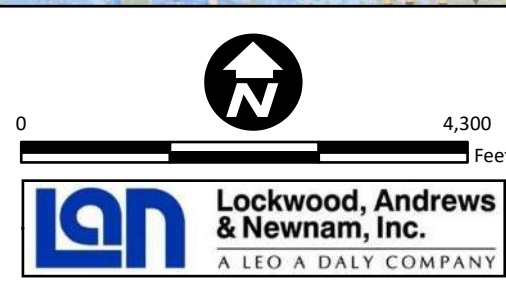
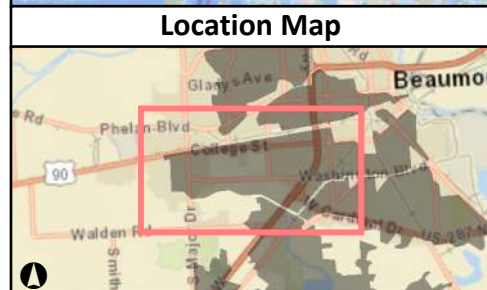
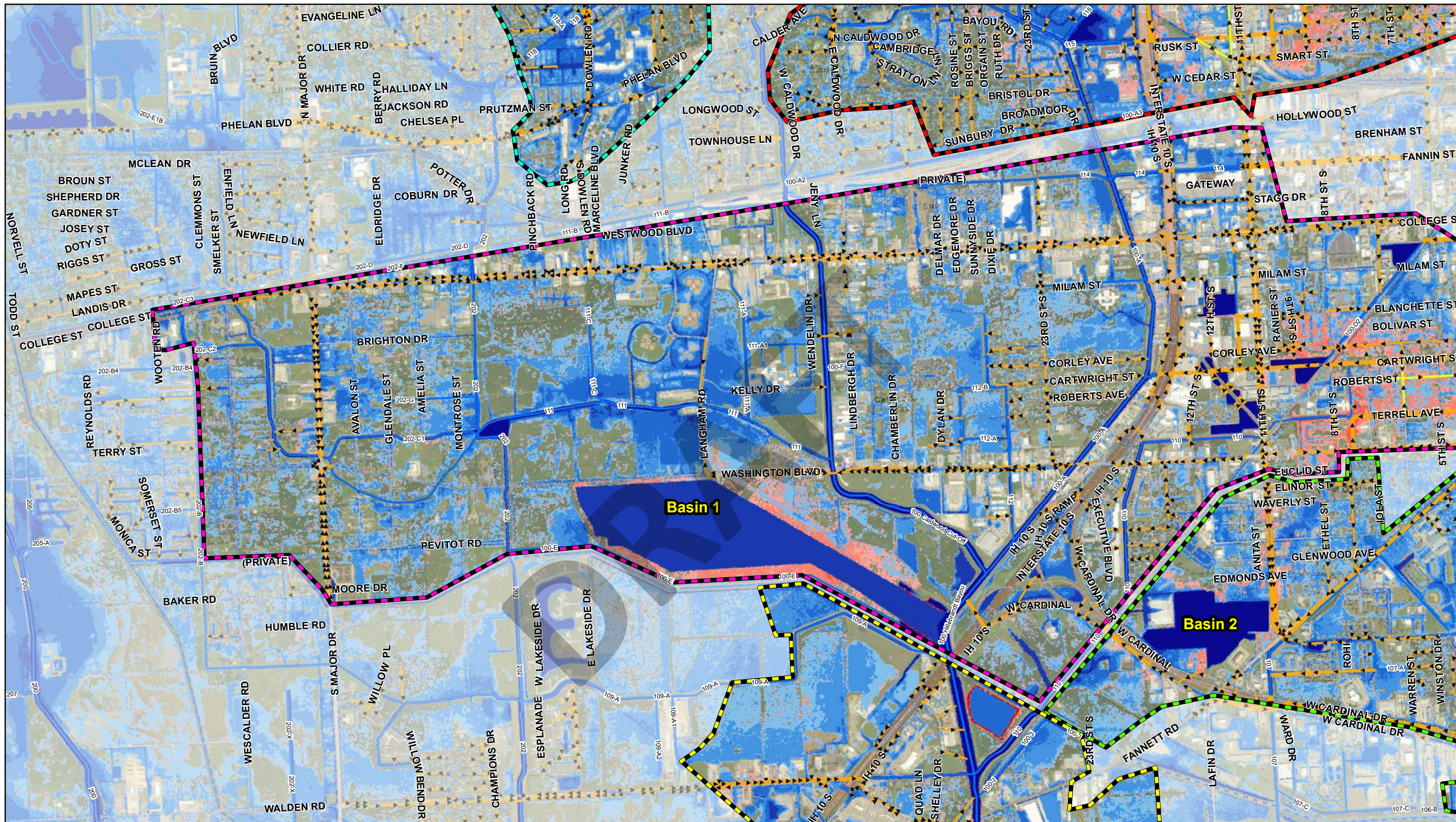
JULY 2023

DRAFT

PREPARED FOR THE
REGION 5 NECHES FLOOD PLANNING GROUP

DRAFT

**APPENDIX 5-E
SUPPORTING DOCUMENTATION FOR RECOMMENDED FLOOD MITIGATION
PROJECTS**



Project Areas of Influence

- Basins 3-10
- Blanchette Diversion & Basin 1
- Lucas Diversion
- South Park Diversion & Basin 2
- Tevis Diversion

Legend

Open Channels

- DD6 Channel
- Non-DD6 Channel

Existing Storm Sewer

- < 48"
- > 48"

Proposed Storm Sewer

- Proposed Storm Sewer

Proposed 10-YR Ponding

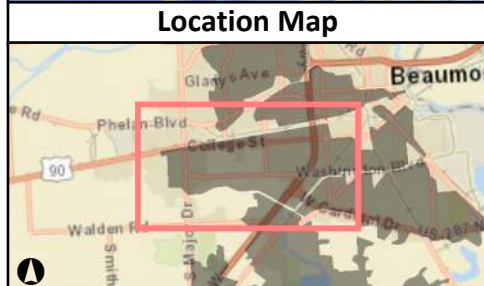
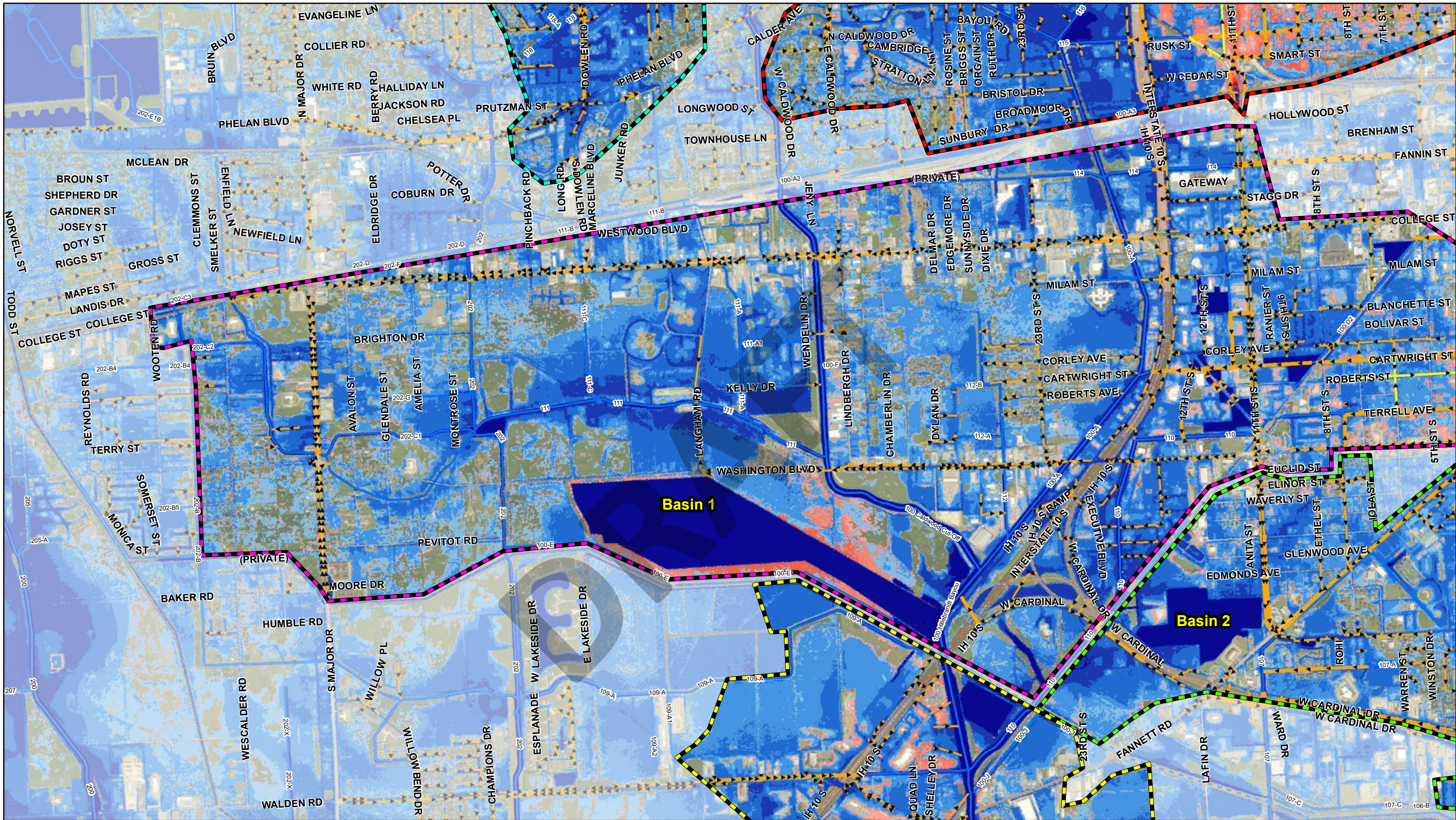
- 0.25 - 0.50
- 0.50 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- > 5.0

Existing 10-YR Ponding

**10-Year Proposed Ponding
Blanchette Diversion & Basin 1 - West**



Exhibit # 48



Project Areas of Influence

- Basins 3-10
- Blanchette Diversion & Basin 1
- Lucas Diversion
- South Park Diversion & Basin 2
- Tevis Diversion

Legend

Open Channels

- DD6 Channel
- Non-DD6 Channel

Existing Storm Sewer

- < 48"
- > 48"

Proposed Storm Sewer

- Proposed Storm Sewer

Proposed 100-YR Ponding

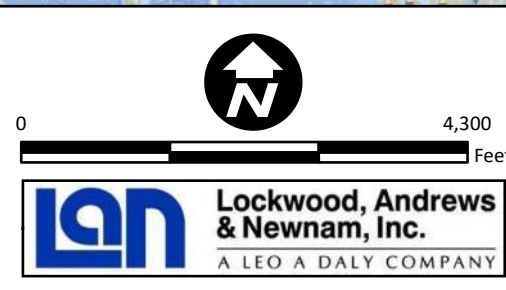
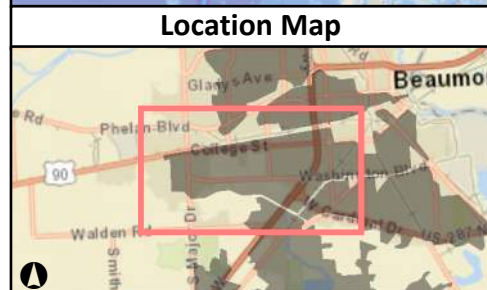
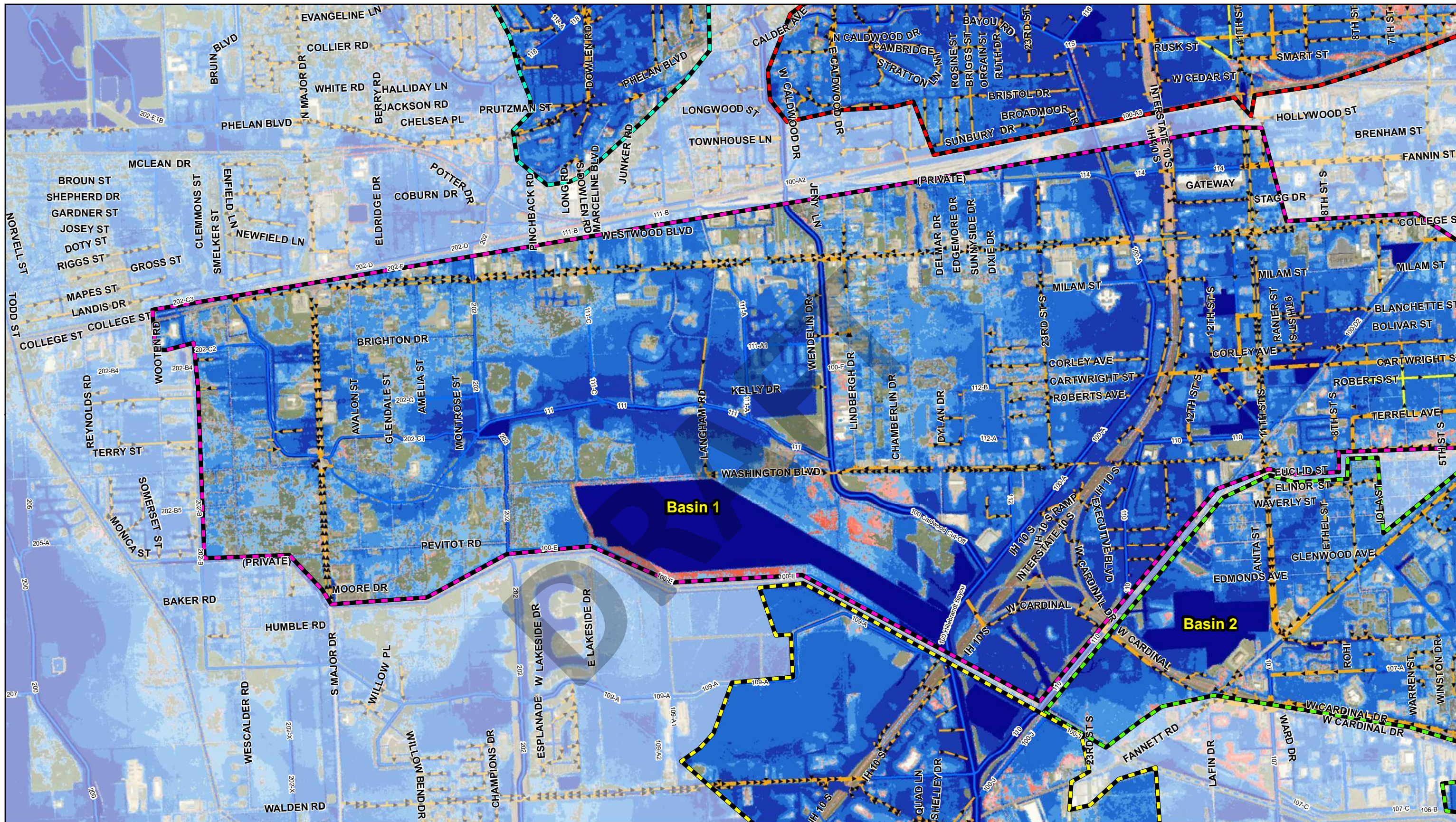
- 0.25 - 0.50
- 0.50 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- > 5.0

Existing 100-YR Ponding

100-Year Proposed Ponding Blanchette Diversion & Basin 1 - West



Exhibit # 49



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- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

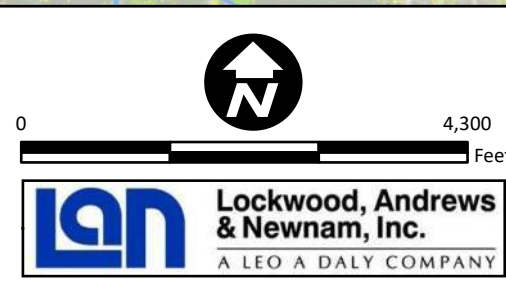
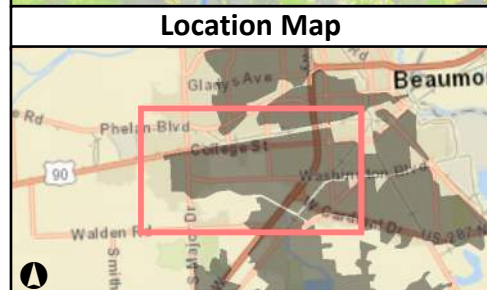
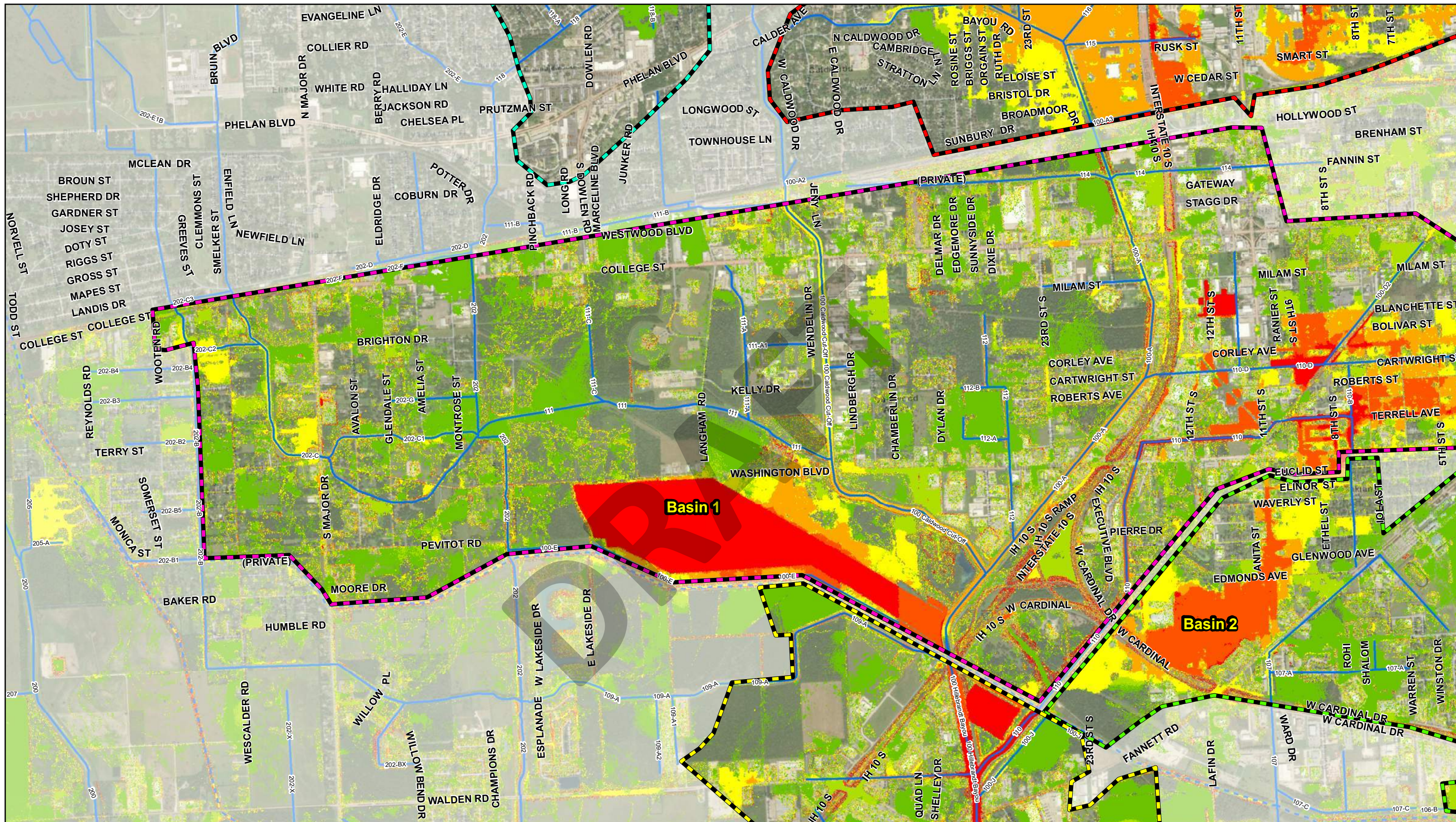
- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel
- Existing Storm Sewer**
- < 48"
 - > 48"
- Proposed Storm Sewer**
-

- Proposed 500-YR Ponding**
- 0.25 - 0.50
 - 0.50 - 1.0
 - 1.0 - 2.0
 - 2.0 - 5.0
 - > 5.0
 - Existing 500-YR Ponding

500-Year Proposed Ponding Blanchette Diversion & Basin 1 - West

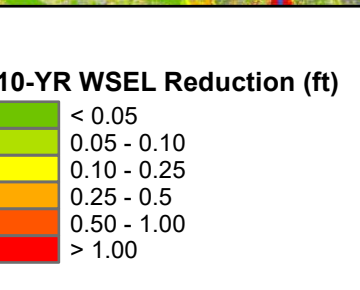


Exhibit # 50



- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

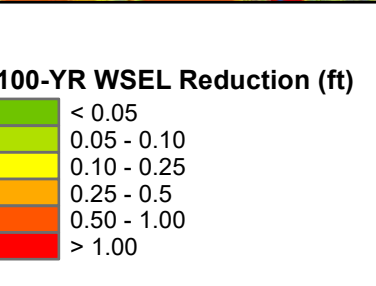
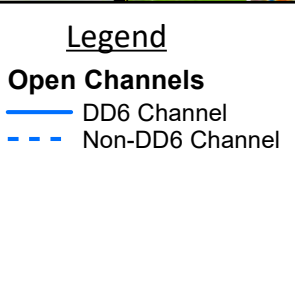
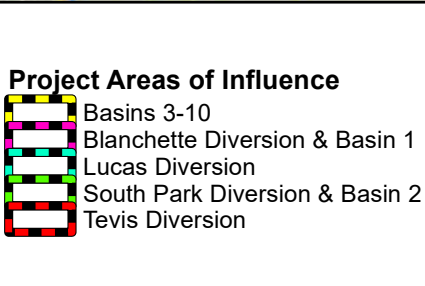
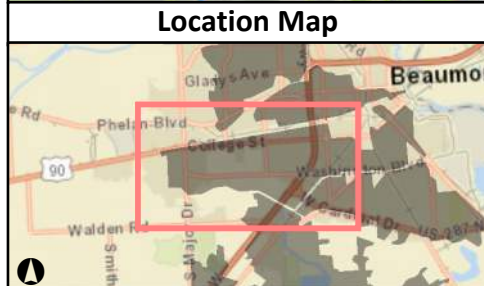
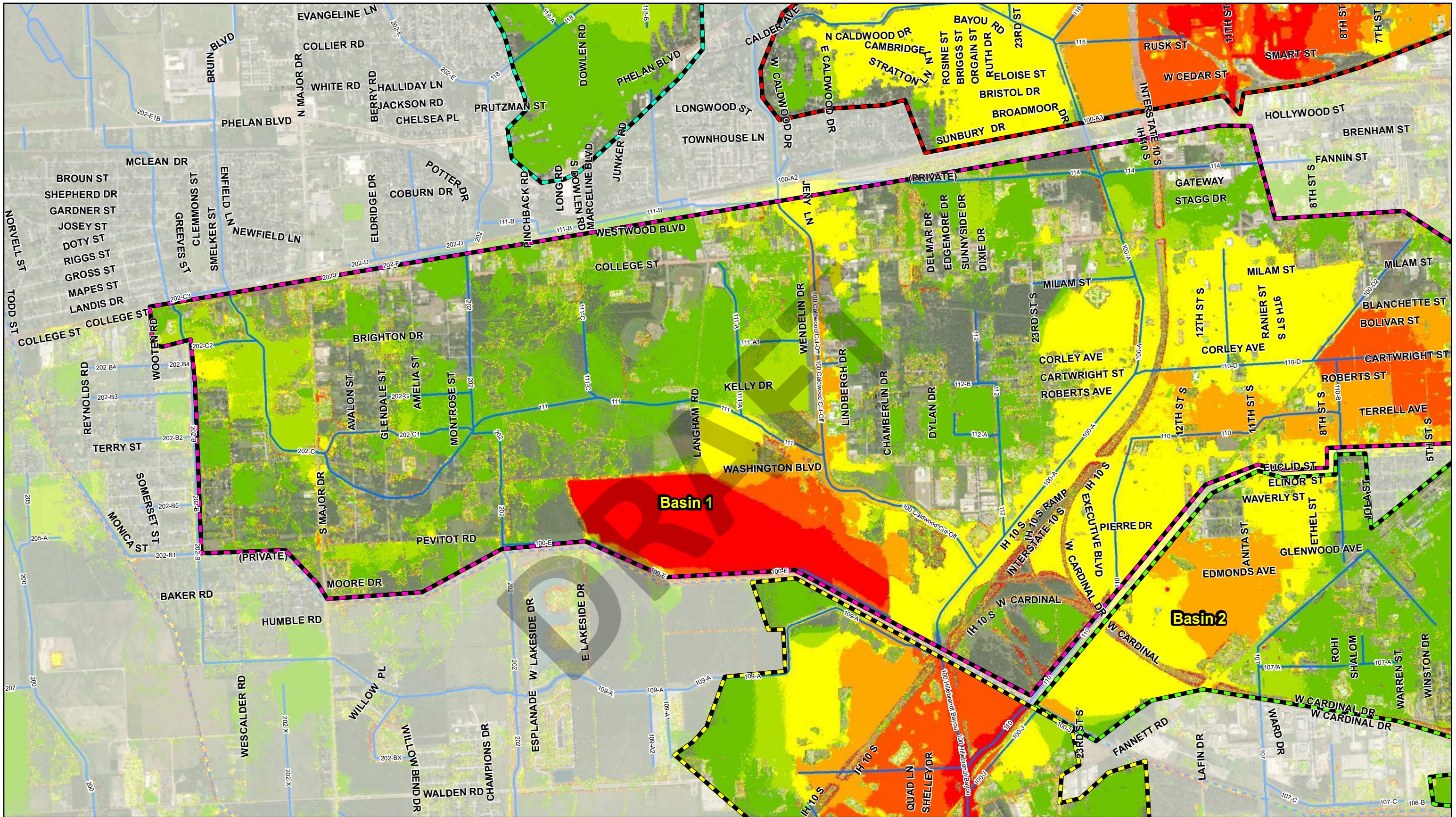
- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel



10-Year WSEL Reductions Blanchette Diversion & Basin 1 - West



Exhibit # 51



**100-Year WSEL Reductions
Blanchette Diversion & Basin 1 - West**


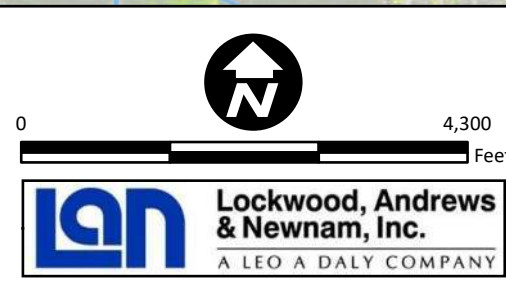
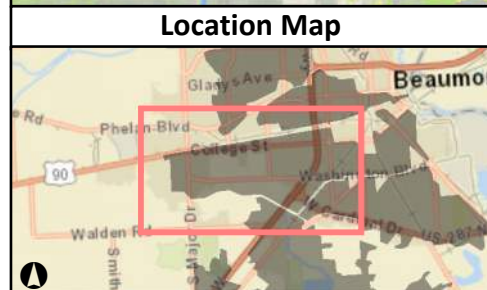
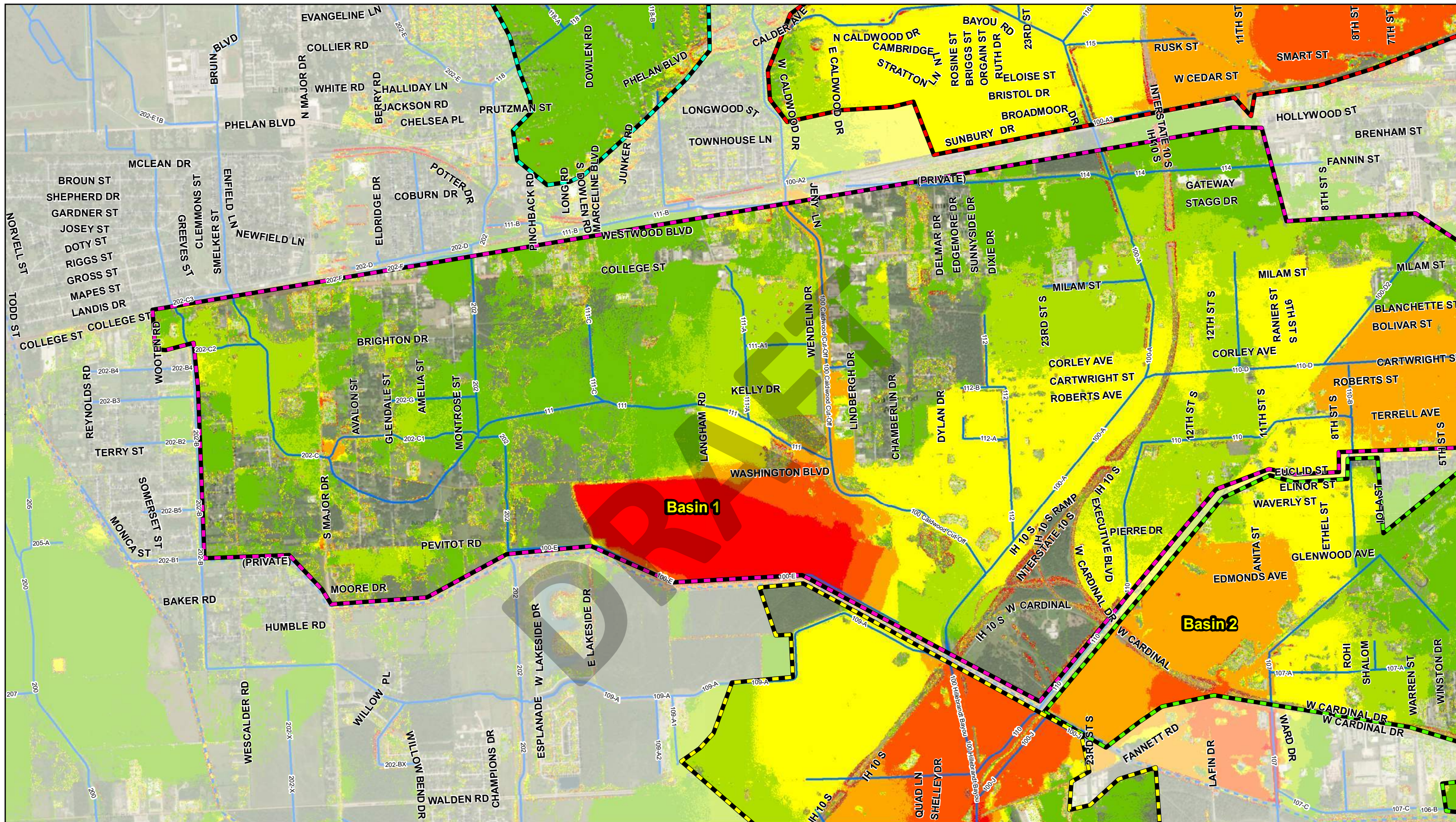
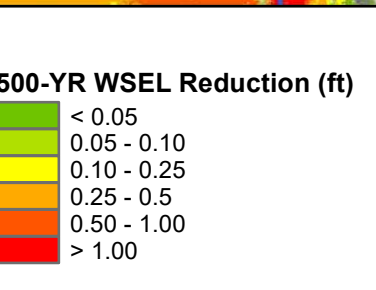


Exhibit # 52



- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel

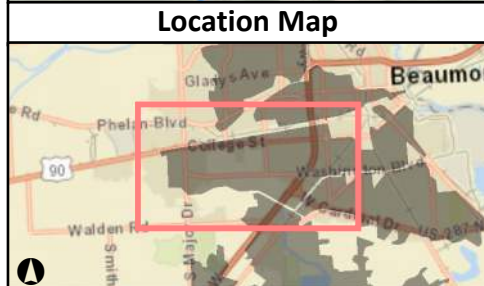
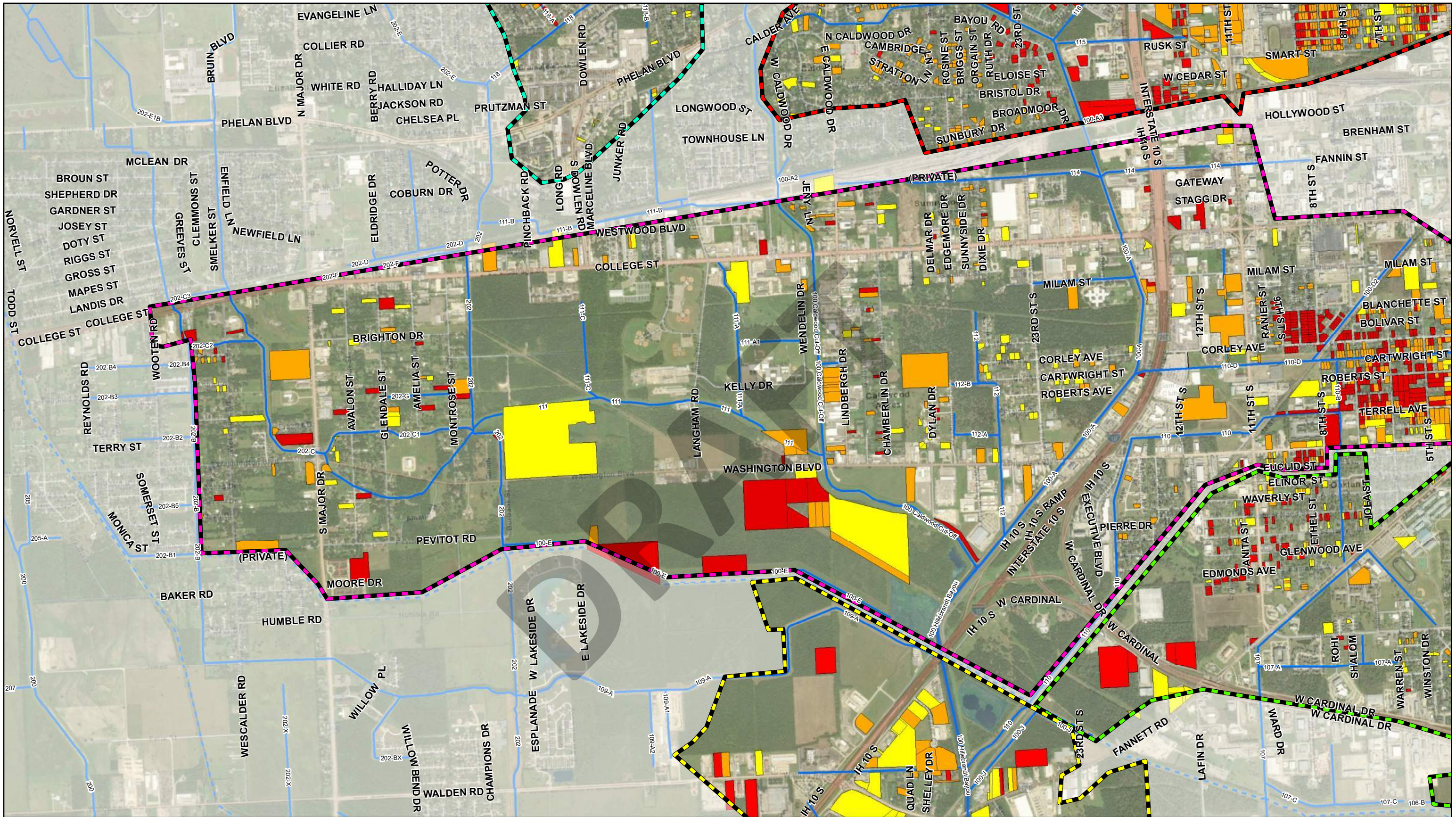


500-Year WSEL Reductions Blanchette Diversion & Basin 1 - West



Exhibit # 53

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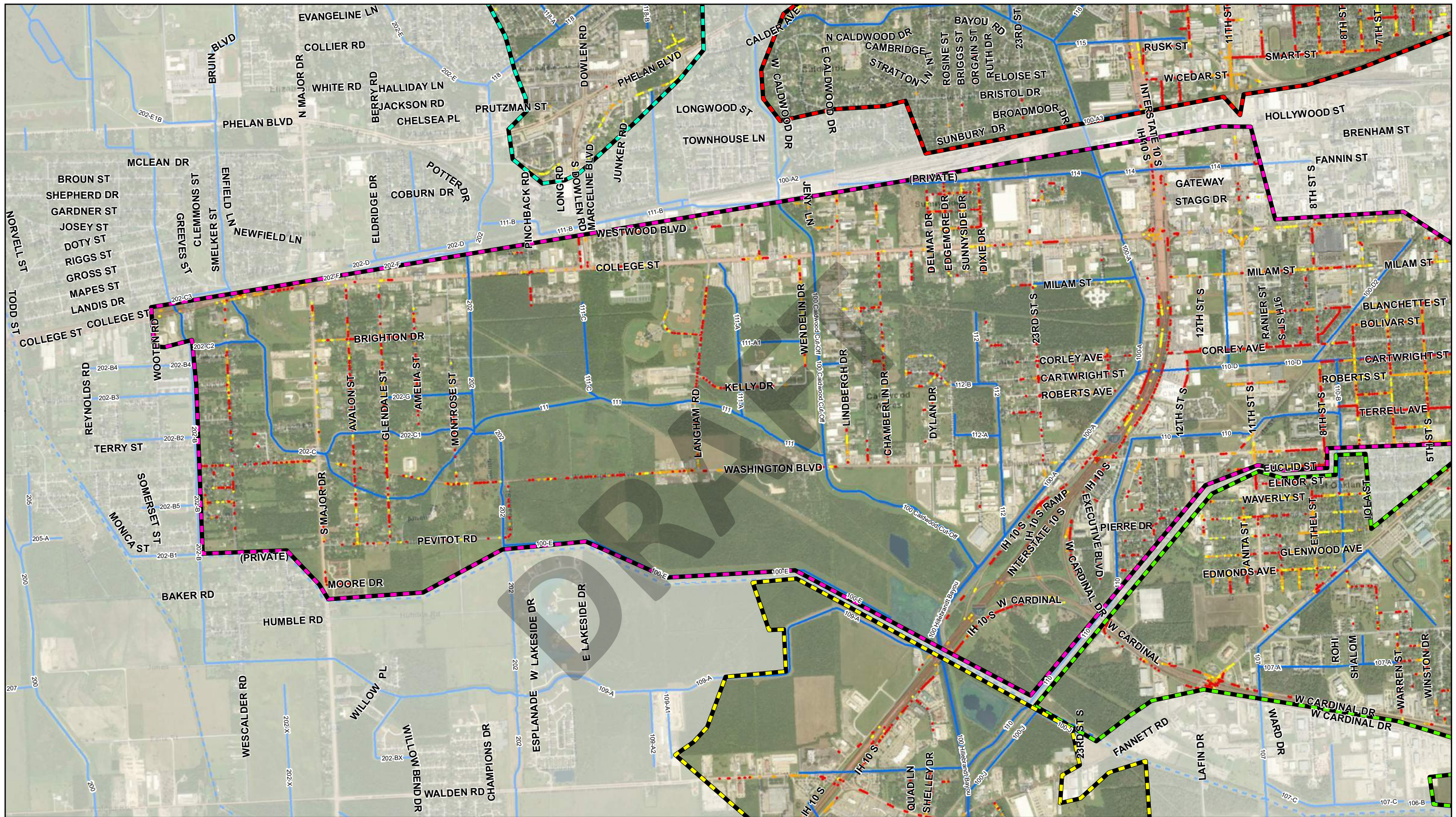
- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel
- Parcels Removed from Floodplain**
- 10-Year
 - 100-Year
 - 500-Year

Parcels Removed from Floodplain Blanchette Diversion & Basin 1 - West



Exhibit # 54



Location Map



LAN Lockwood, Andrews & Newnam, Inc.
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Project Areas of Influence

- Basins 3-10
- Blanchette Diversion & Basin 1
- Lucas Diversion
- South Park Diversion & Basin 2
- Tevis Diversion

Legend

Roadway Removed from Floodplain

- 10-Year
- 100-Year
- 500-Year

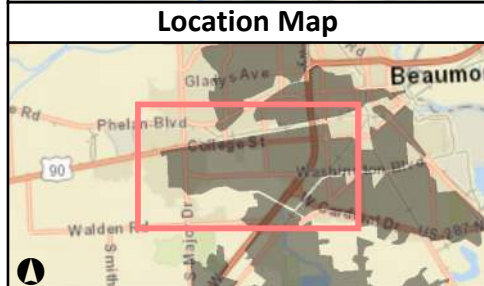
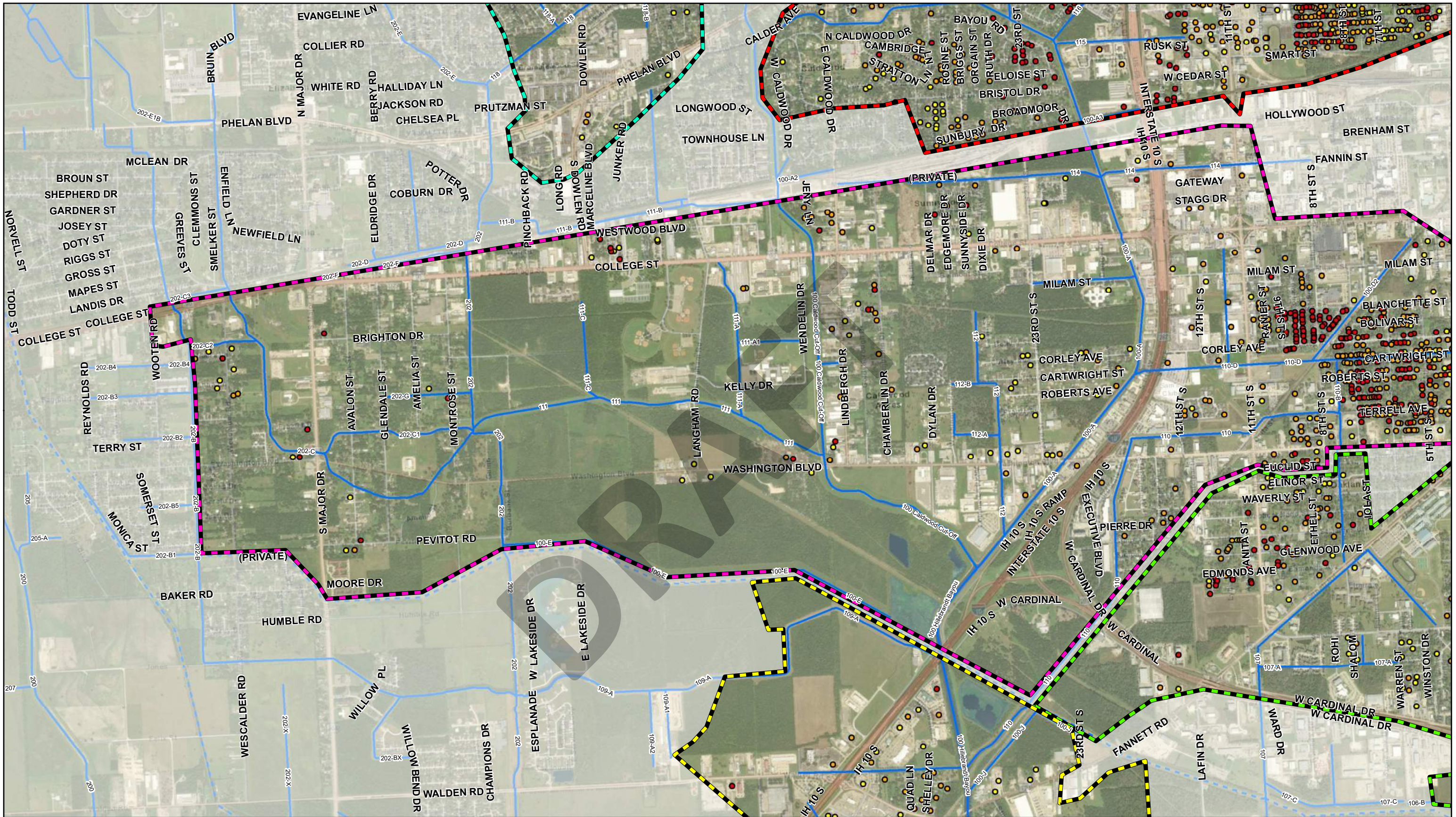
Open Channels

- DD6 Channel
- Non-DD6 Channel

**Roadway Removed from Floodplain
Blanchette Diversion & Basin 1 - West**



Exhibit # 55



0 4,300 Feet

Project Areas of Influence

- Basins 3-10
- Blanchette Diversion & Basin 1
- Lucas Diversion
- South Park Diversion & Basin 2
- Tevis Diversion

Legend

Structures Removed from Flooding

- 10-Year
- 100-Year
- 500-Year

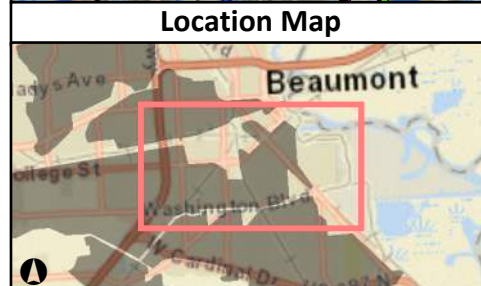
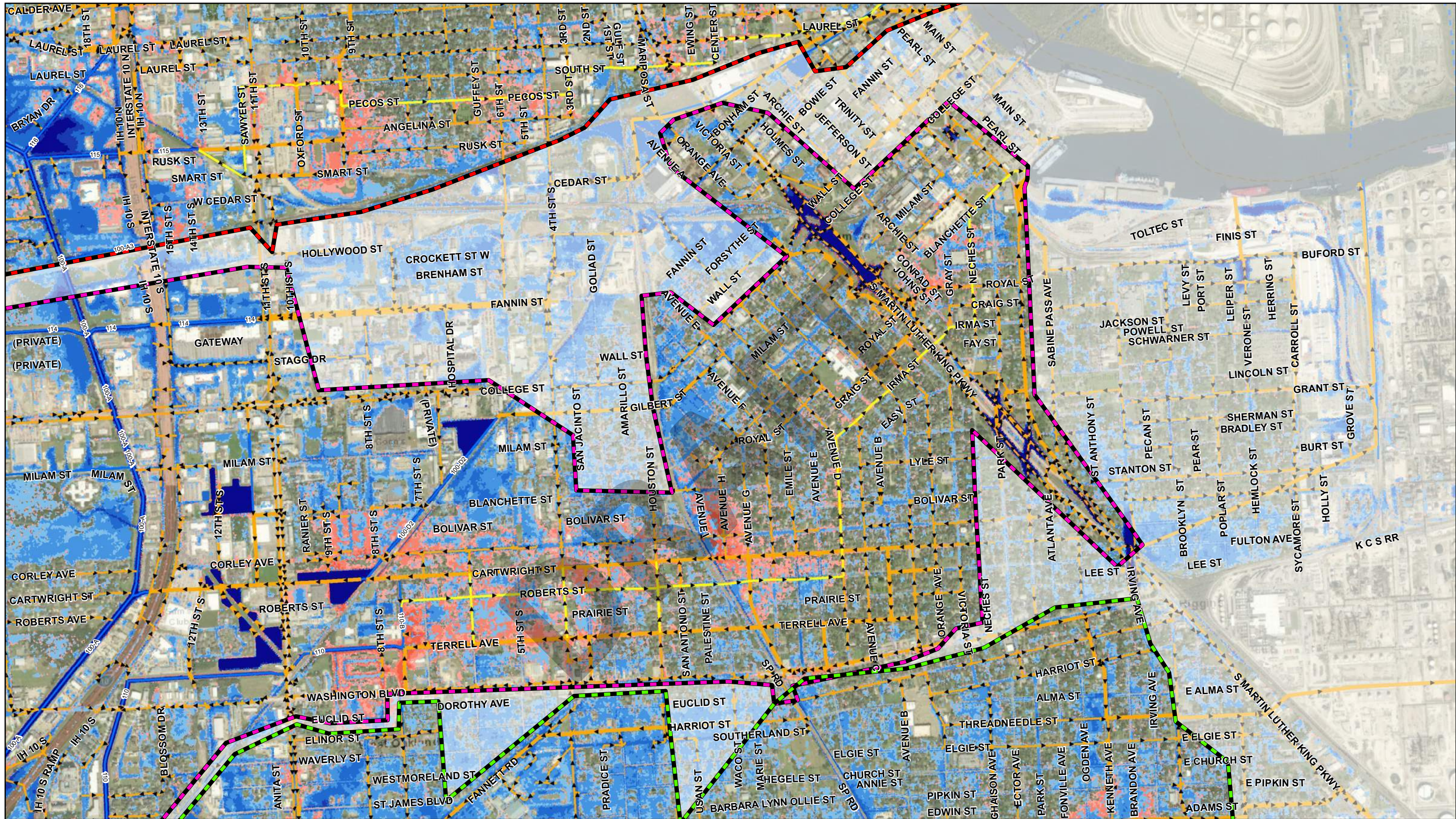
Open Channels

- DD6 Channel
- Non-DD6 Channel

Structures Removed from Flooding Blanchette Diversion & Basin 1 - West



Exhibit # 56



- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

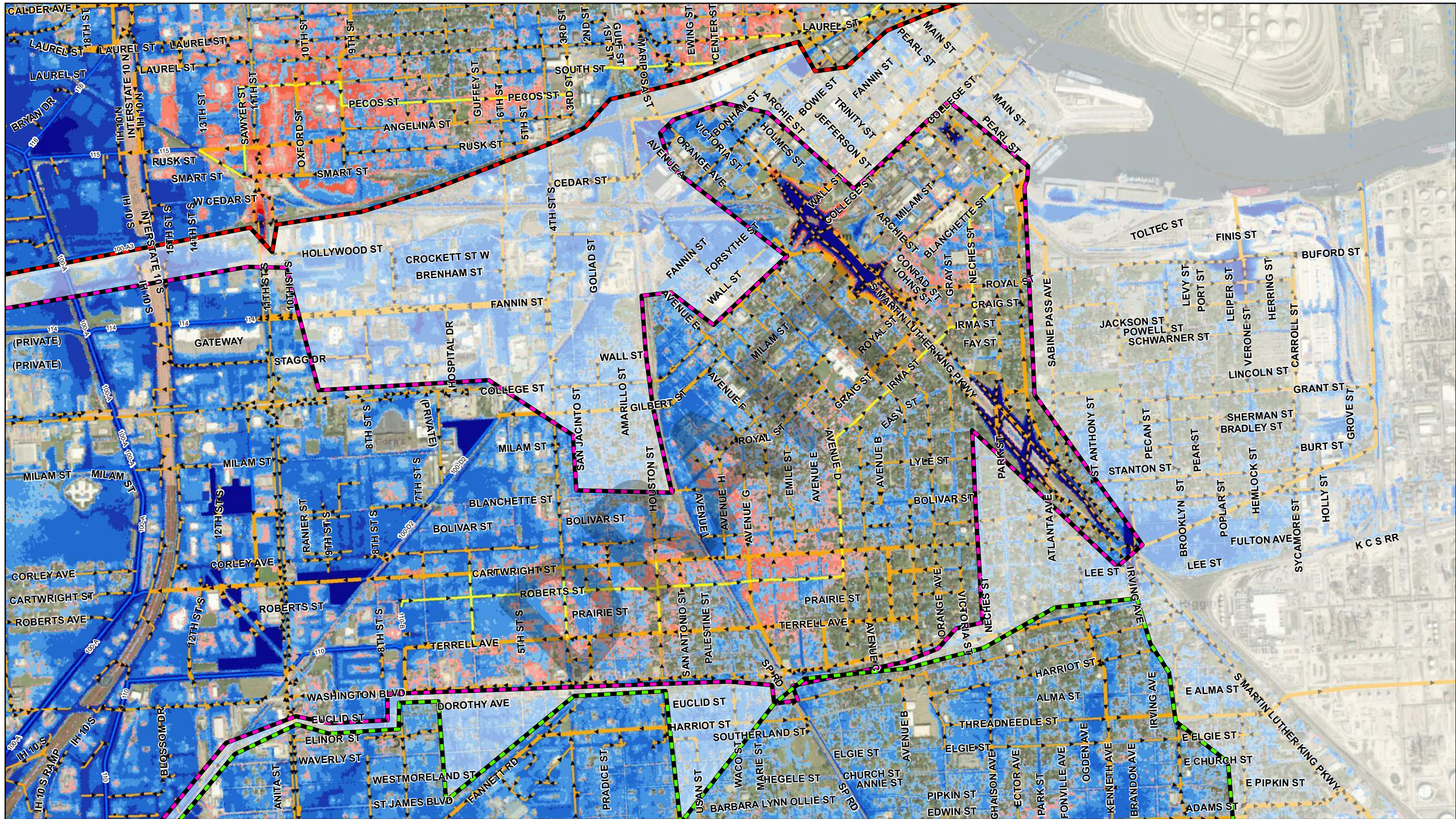
- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel
- Existing Storm Sewer**
- < 48"
 - > 48"
- Proposed Storm Sewer**
- Proposed Storm Sewer

- Proposed 10-YR Ponding**
- 0.25 - 0.50
 - 0.50 - 1.0
 - 1.0 - 2.0
 - 2.0 - 5.0
 - > 5.0
 - Existing 10-YR Ponding

10-Year Proposed Ponding Blanchette Diversion & Basin 1 - East



Exhibit # 57



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- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

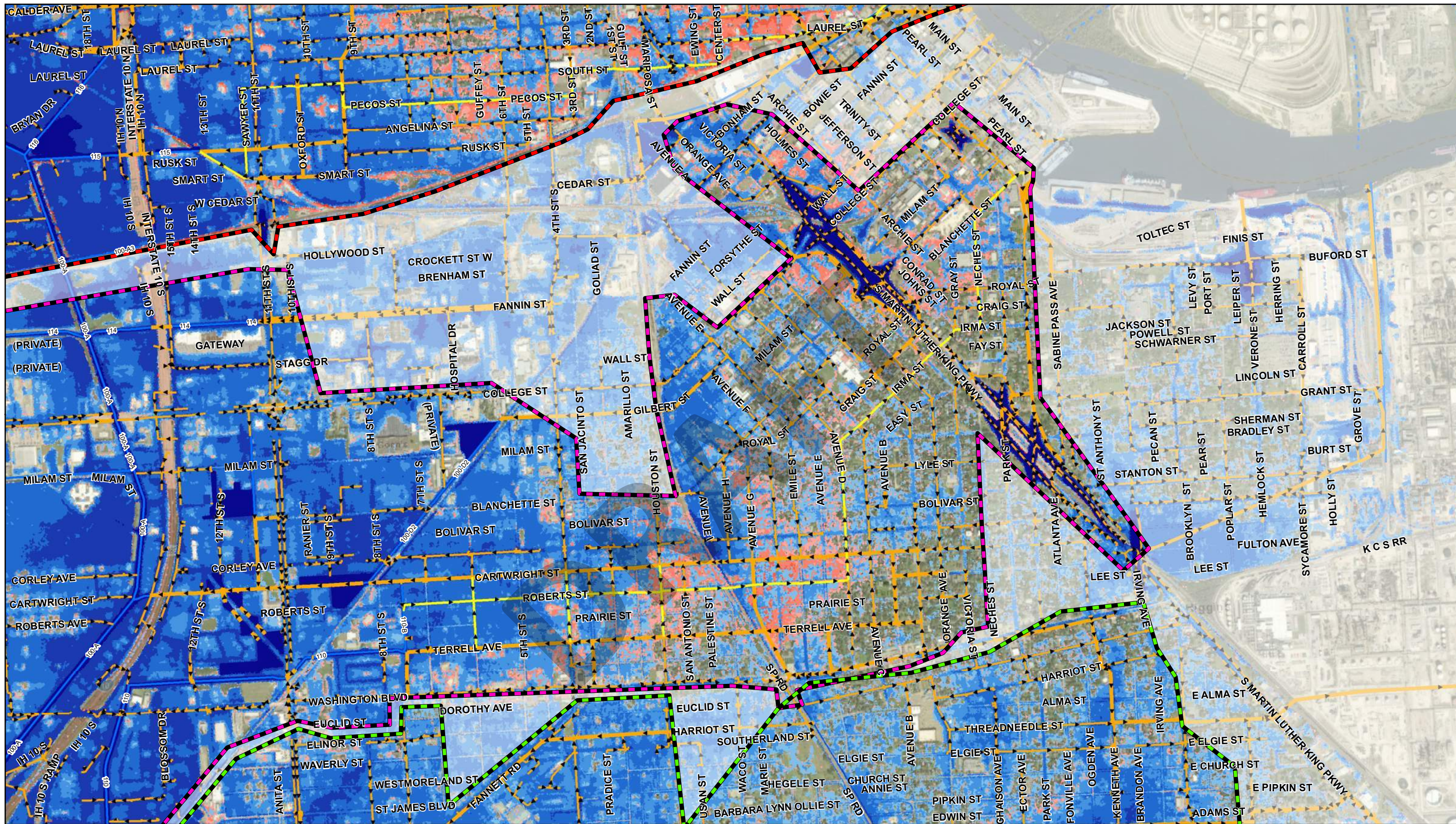
- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel
- Existing Storm Sewer**
- < 48"
 - > 48"
- Proposed Storm Sewer**
-

- Proposed 100-YR Ponding**
- 0.25 - 0.50
 - 0.50 - 1.0
 - 1.0 - 2.0
 - 2.0 - 5.0
 - > 5.0
 - Existing 100-YR Ponding

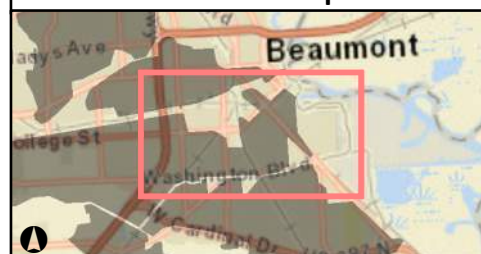
100-Year Proposed Ponding Blanchette Diversion & Basin 1 - East



Exhibit # 58



Location Map



LAN Lockwood, Andrews & Newnam, Inc.
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- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

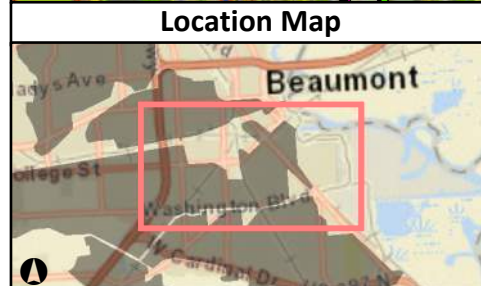
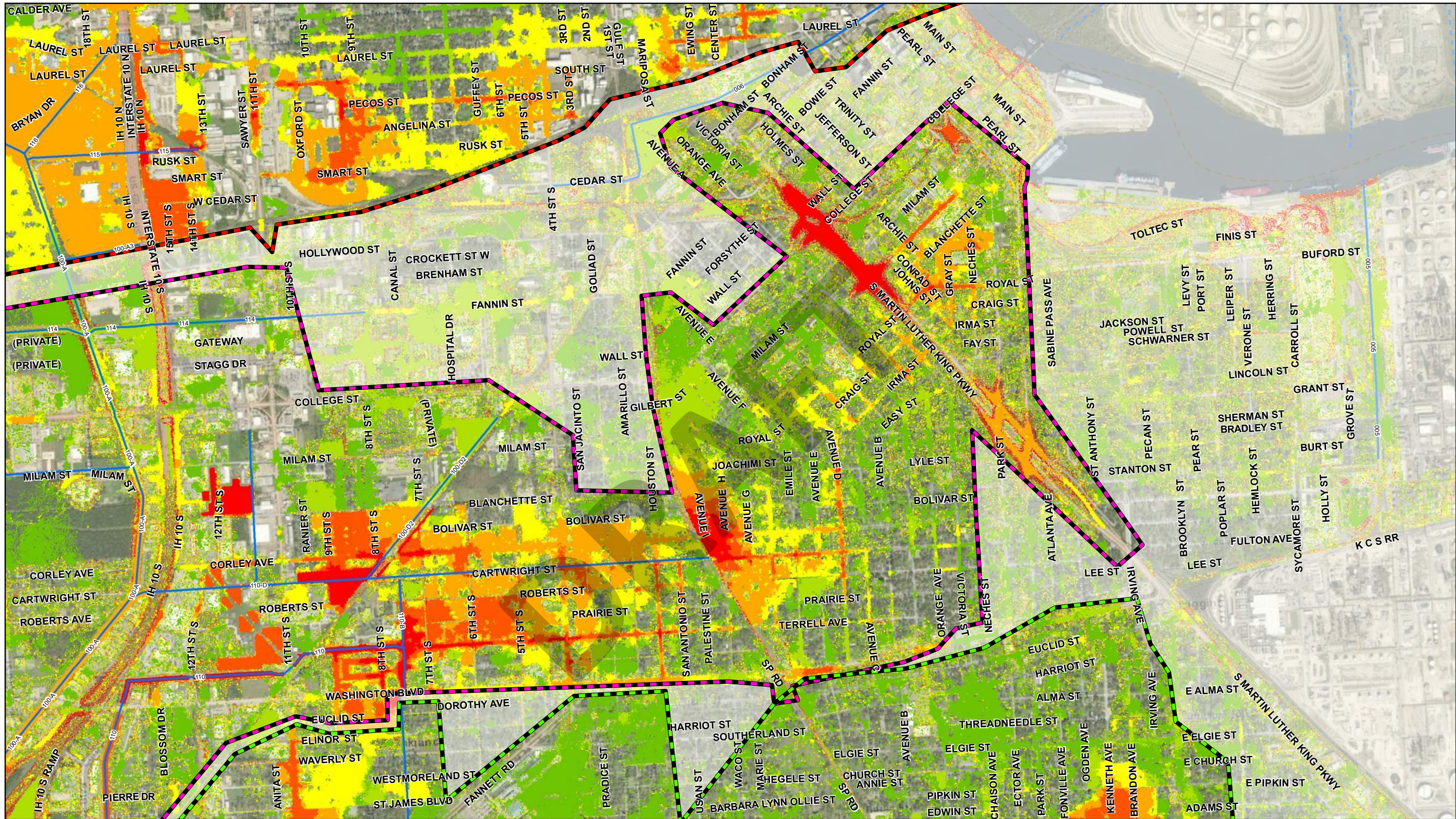
- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel
- Existing Storm Sewer**
- < 48"
 - > 48"
- Proposed Storm Sewer**
- Proposed Storm Sewer

- Proposed 500-YR Ponding**
- 0.25 - 0.50
 - 0.50 - 1.0
 - 1.0 - 2.0
 - 2.0 - 5.0
 - > 5.0
 - Existing 500-YR Ponding

500-Year Proposed Ponding Blanchette Diversion & Basin 1 - East

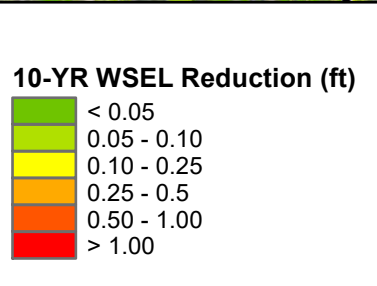


Exhibit # 59



- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

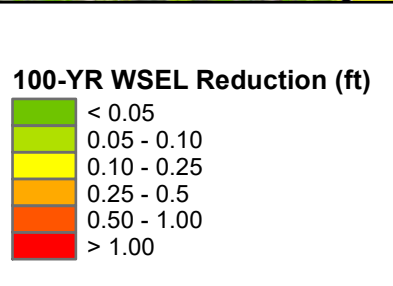
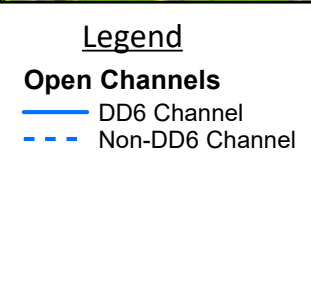
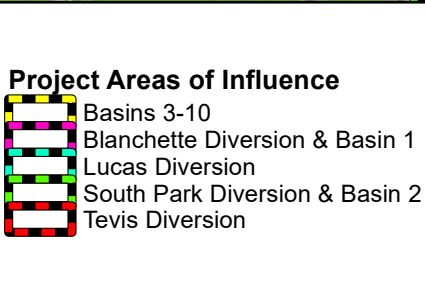
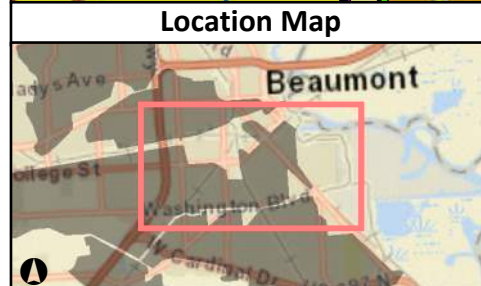
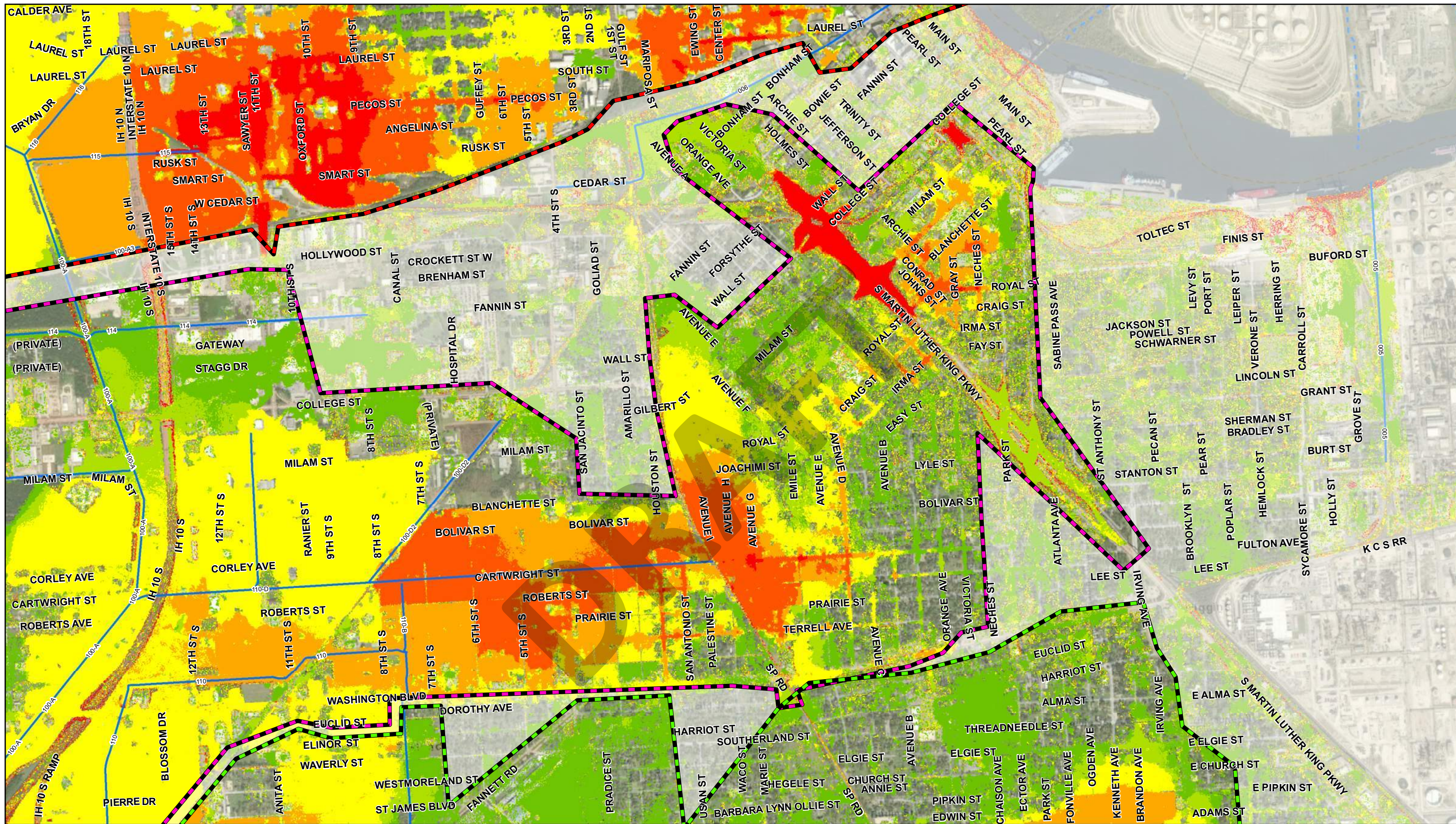
- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel



10-Year WSEL Reductions Blanchette Diversion & Basin 1 - East



Exhibit # 60



**100-Year WSEL Reductions
Blanchette Diversion & Basin 1 - East**


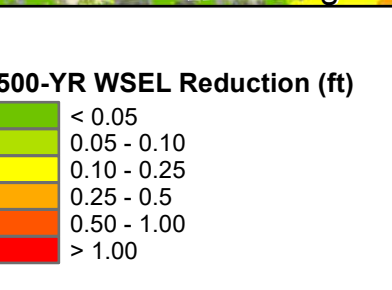
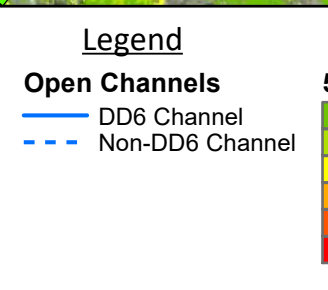
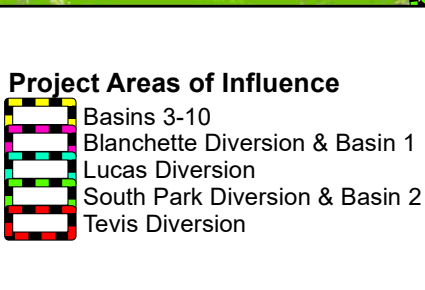
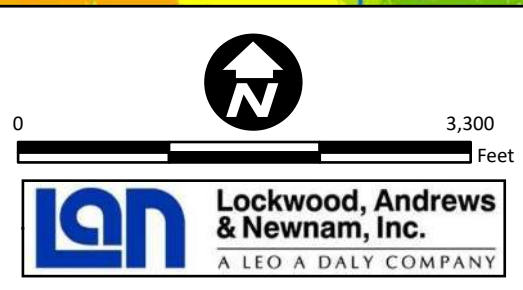
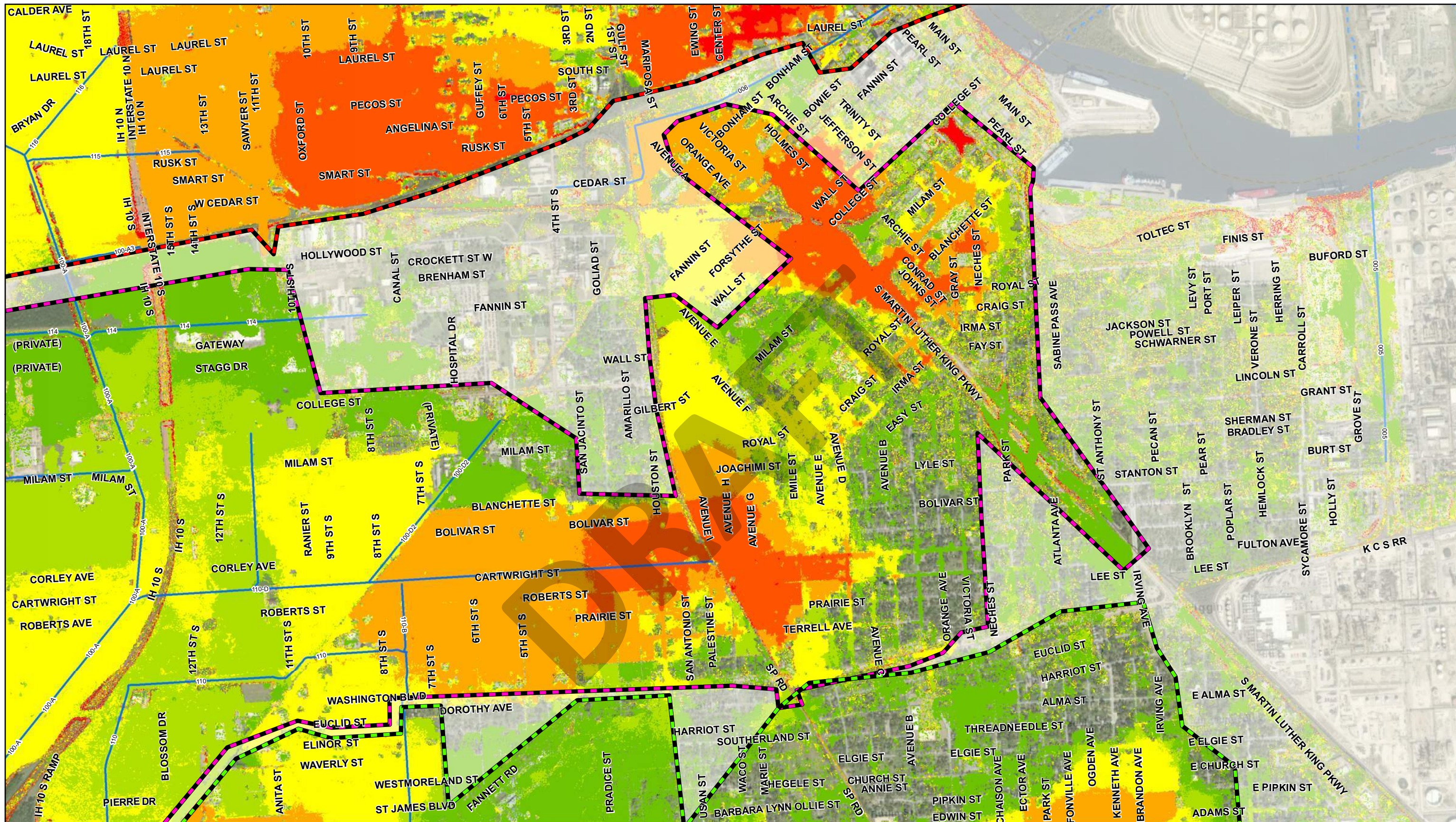
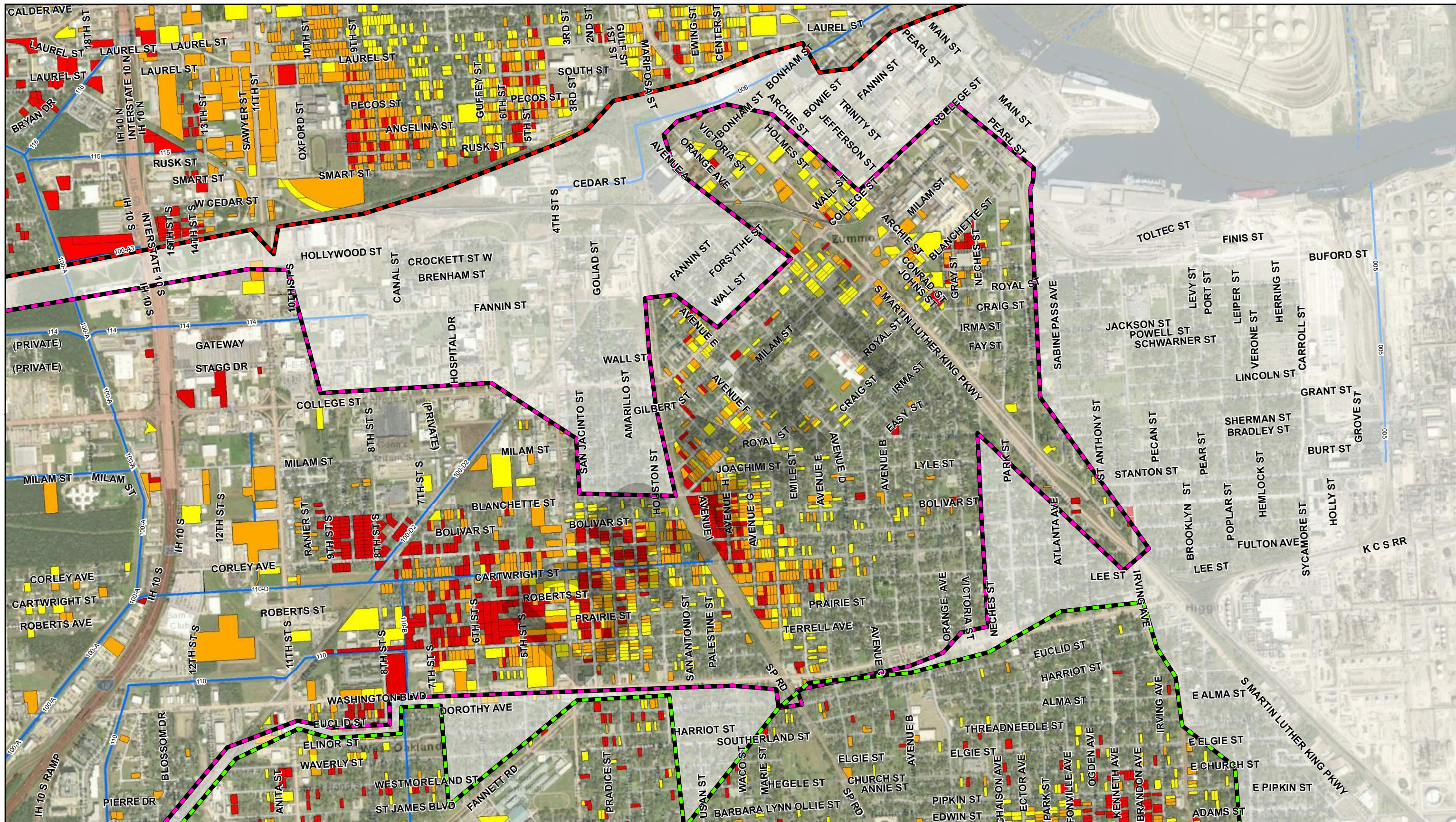


Exhibit # 61

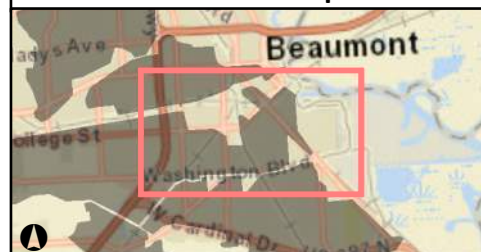


500-Year WSEL Reductions Blanchette Diversion & Basin 1 - East





Location Map



LAN Lockwood, Andrews & Newnam, Inc.
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Legend

Project Areas of Influence

- Basins 3-10
- Blanchette Diversion & Basin 1
- Lucas Diversion
- South Park Diversion & Basin 2
- Tevis Diversion

Open Channels

- DD6 Channel
- Non-DD6 Channel

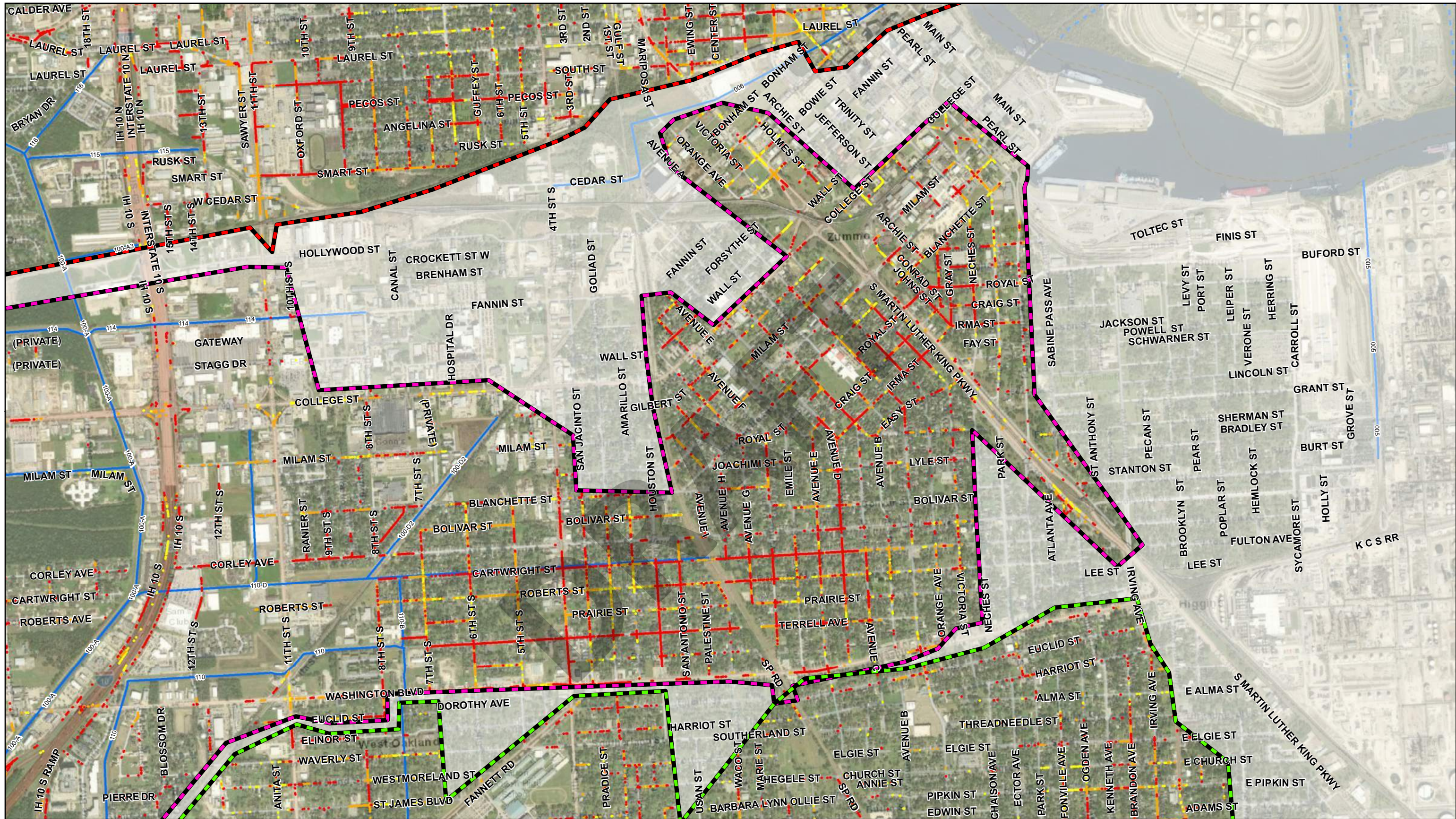
Parcels Removed from Floodplain

- 10-Year
- 100-Year
- 500-Year

**Parcels Removed from Floodplain
Blanchette Diversion & Basin 1 - East**



Exhibit # 63



Location Map



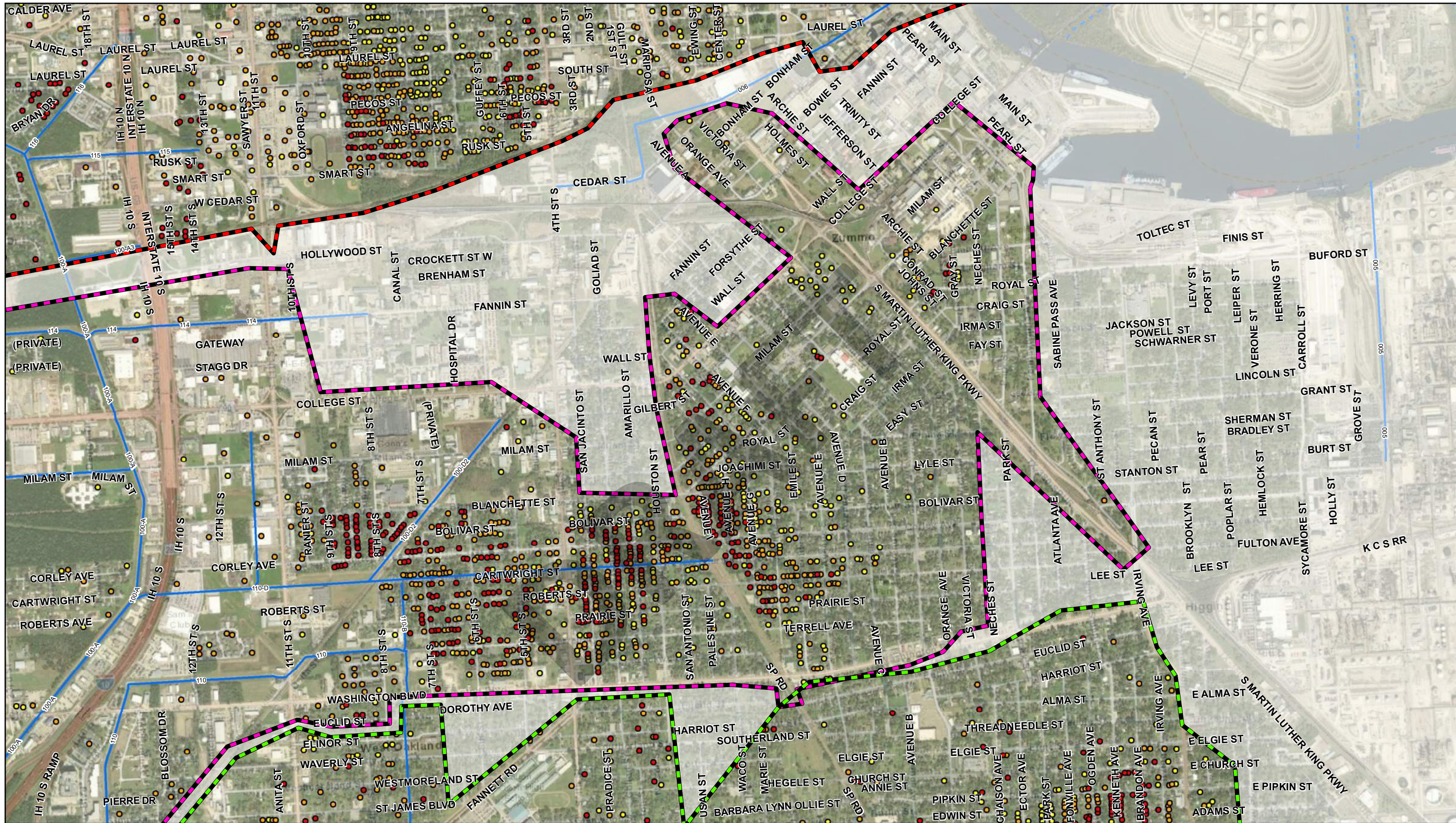
LAN Lockwood, Andrews & Newnam, Inc.
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- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

- Legend**
- Roadway Removed from Floodplain**
- 10-Year
 - 100-Year
 - 500-Year
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel

Roadway Removed from Floodplain Blanchette Diversion & Basin 1 - East





Location Map



0 3,300 Feet

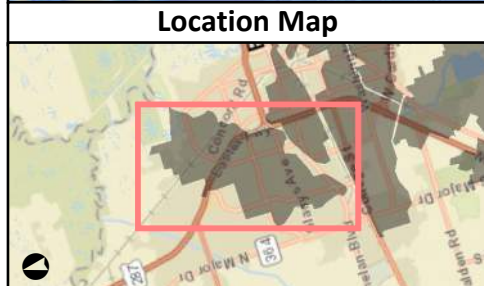
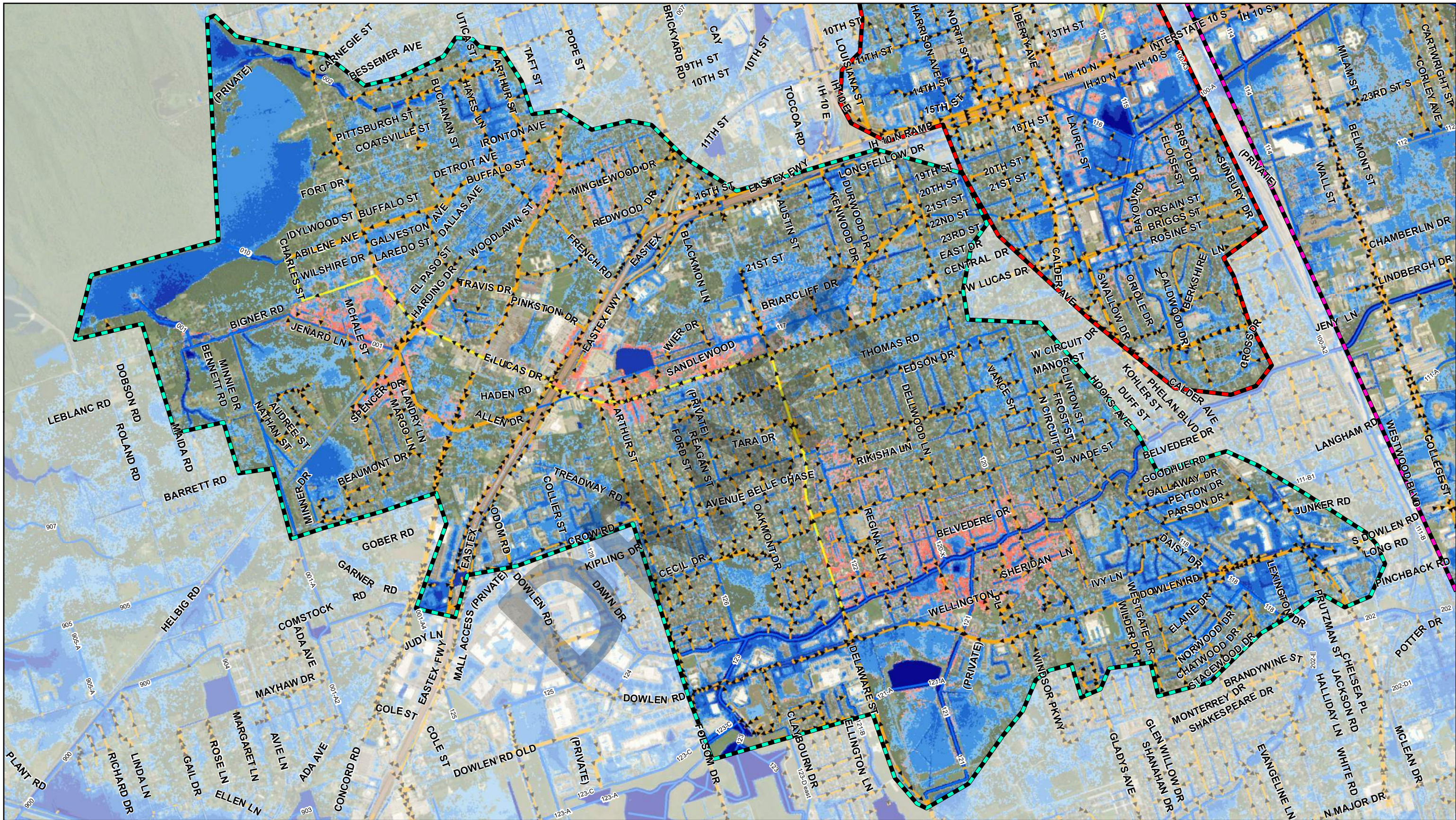
Lockwood, Andrews & Newnam, Inc.
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- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

- Legend**
- Structures Removed from Flooding**
- 10-Year
 - 100-Year
 - 500-Year
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel

Structures Removed from Flooding Blanchette Diversion & Basin 1 - East





LAN Lockwood, Andrews & Newnam, Inc.
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- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

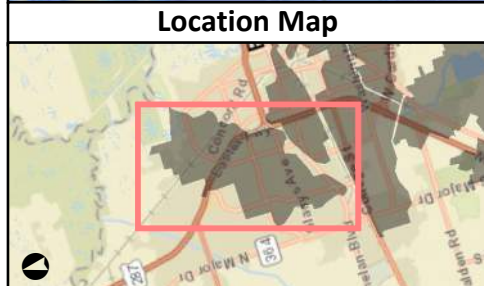
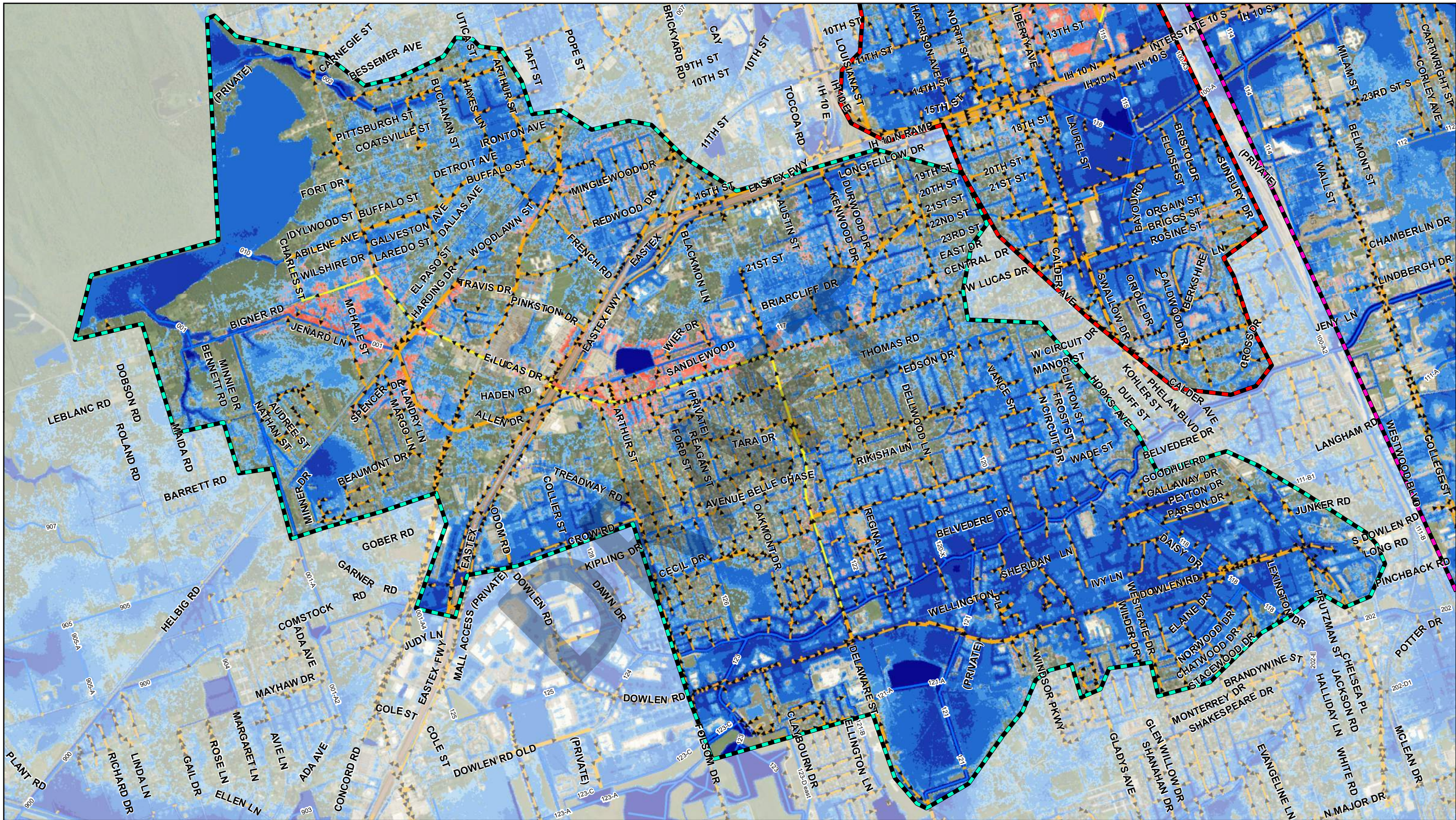
- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel
- Existing Storm Sewer**
- < 48"
 - > 48"
- Proposed Storm Sewer**
-

- Proposed 10-YR Ponding**
- 0.25 - 0.50
 - 0.50 - 1.0
 - 1.0 - 2.0
 - 2.0 - 5.0
 - > 5.0
 - Existing 10-YR Ponding

10-Year Proposed Ponding Lucas Diversion



Exhibit # 66



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- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

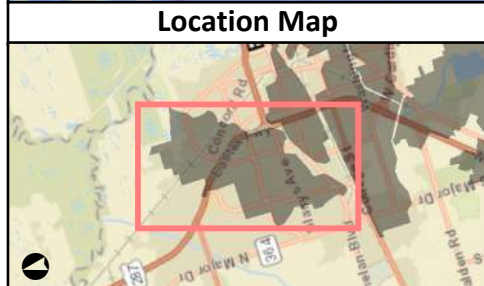
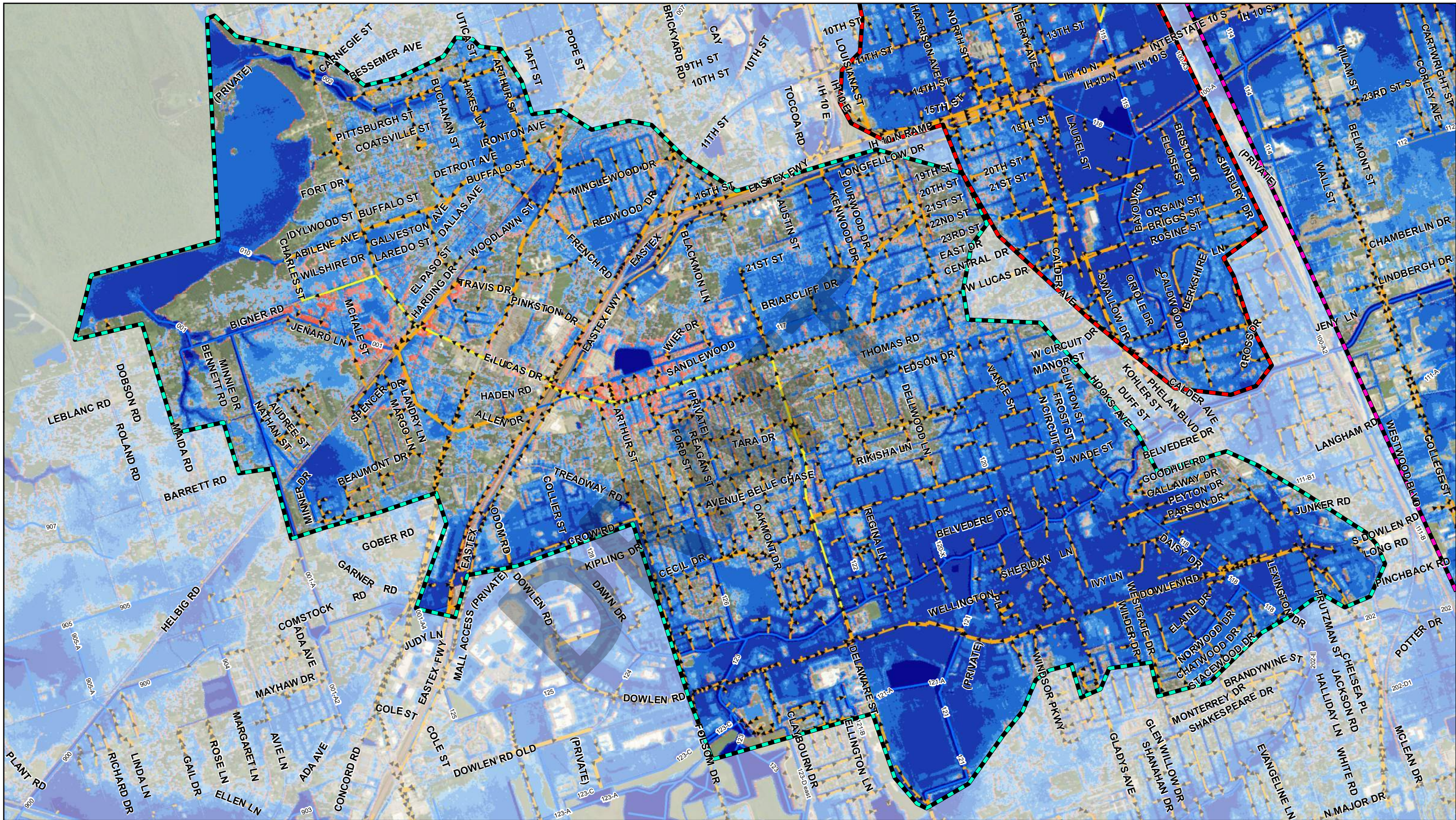
- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel
- Existing Storm Sewer**
- < 48"
 - > 48"
- Proposed Storm Sewer**
-

- Proposed 100-YR Ponding**
- 0.25 - 0.50
 - 0.50 - 1.0
 - 1.0 - 2.0
 - 2.0 - 5.0
 - > 5.0
 - Existing 100-YR Ponding

100-Year Proposed Ponding Lucas Diversion



Exhibit # 67



LAN Lockwood, Andrews & Newnam, Inc.
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- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion

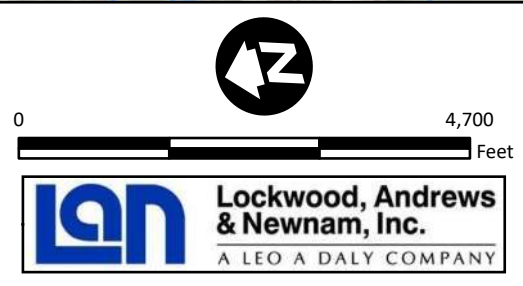
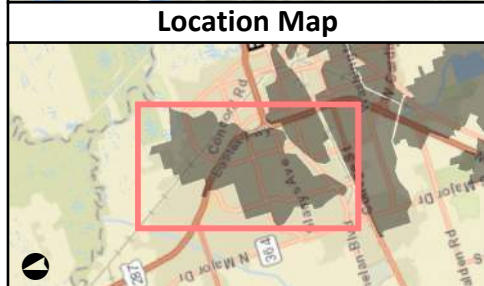
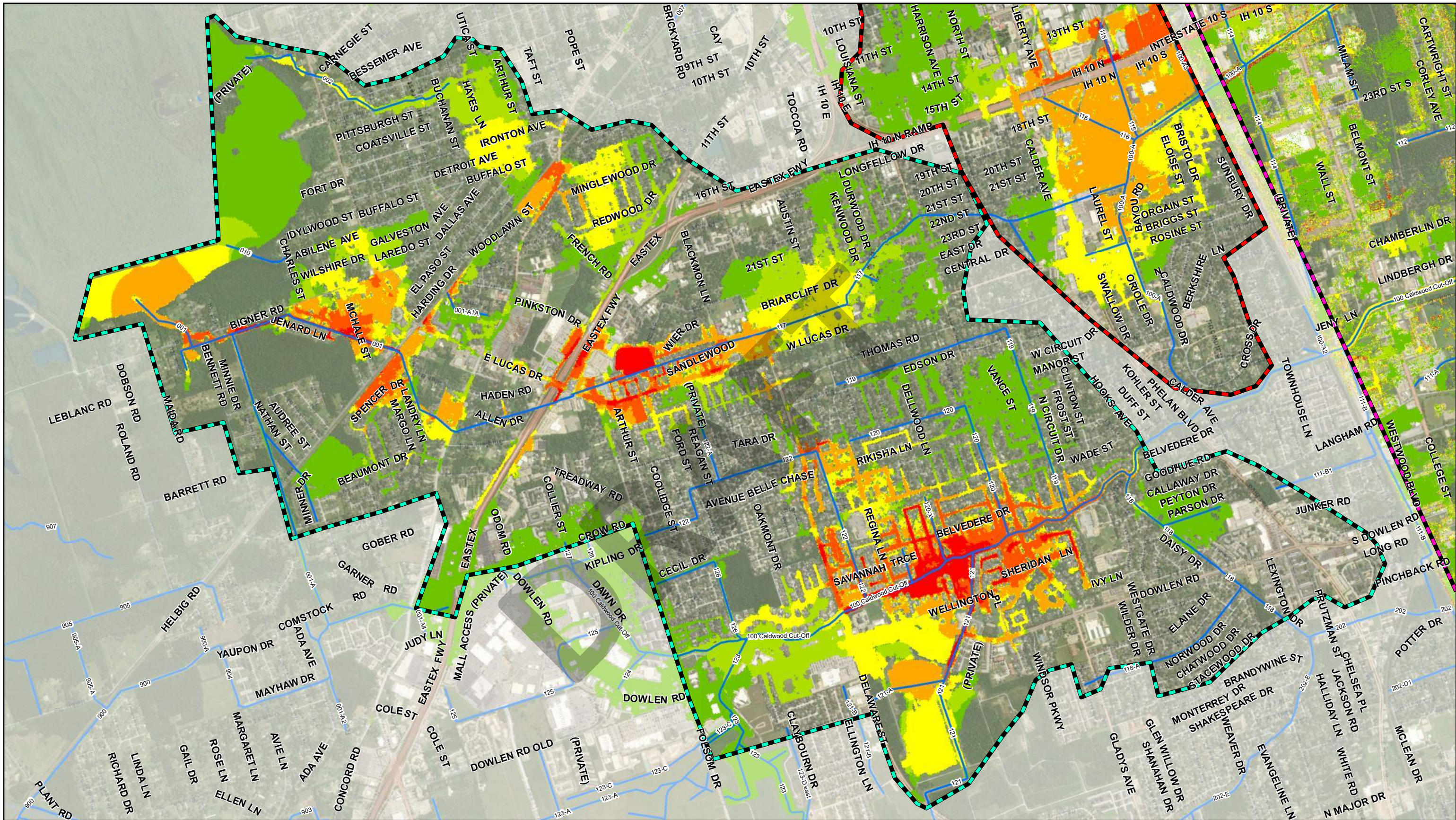
- Legend**
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel
- Existing Storm Sewer**
- < 48"
 - > 48"
- Proposed Storm Sewer**
- Proposed Storm Sewer

- Proposed 500-YR Ponding**
- 0.25 - 0.50
 - 0.50 - 1.0
 - 1.0 - 2.0
 - 2.0 - 5.0
 - > 5.0
 - Existing 500-YR Ponding

500-Year Proposed Ponding Lucas Diversion

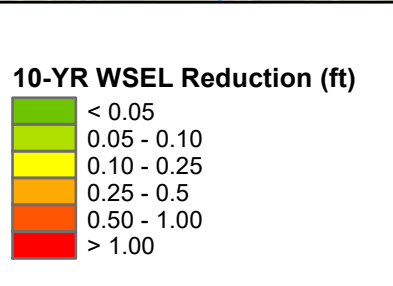


Exhibit # 68



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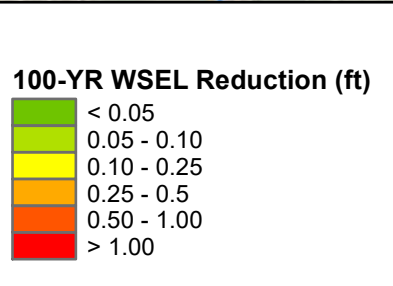
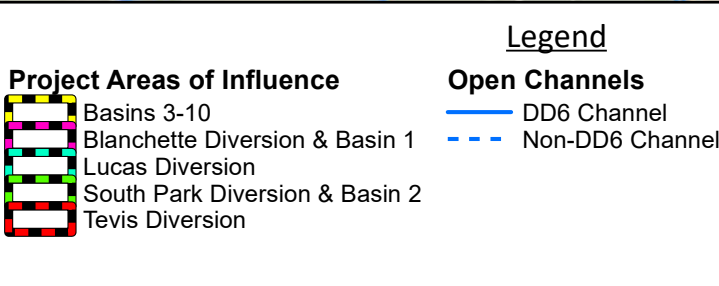
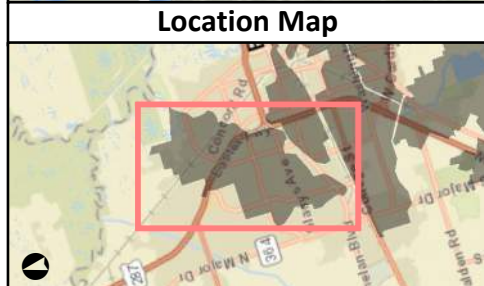
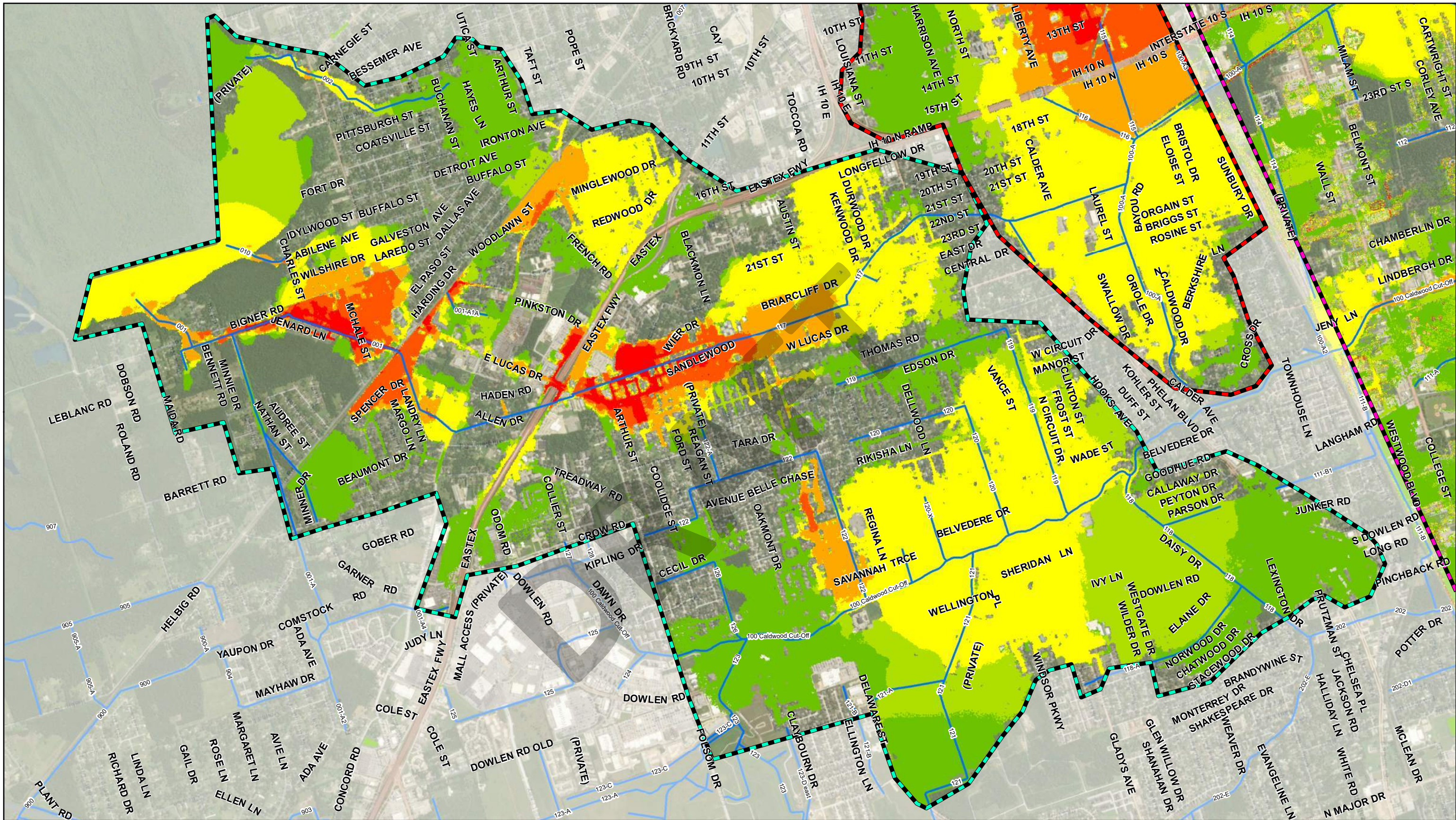
- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion
- Legend**
- Open Channels DD6 Channel
 - Open Channels Non-DD6 Channel

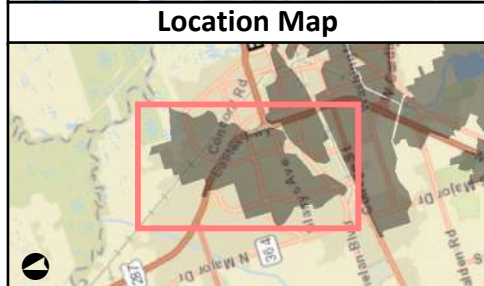
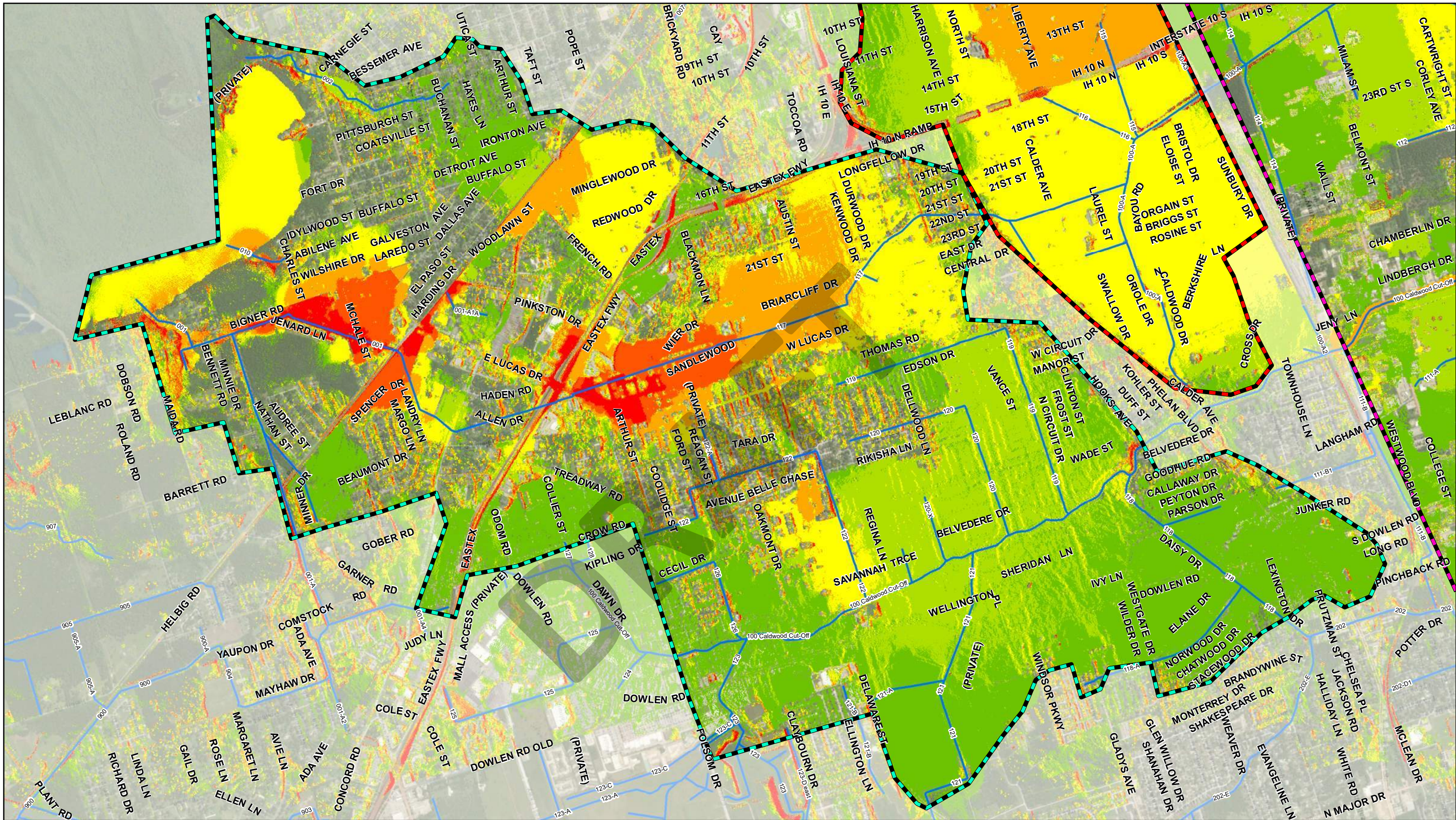


10-Year WSEL Reductions Lucas Diversion



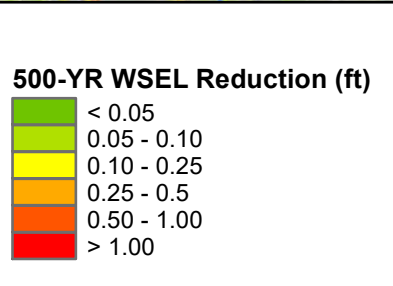
Exhibit # 69





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- Project Areas of Influence**
- Basins 3-10
 - Blanchette Diversion & Basin 1
 - Lucas Diversion
 - South Park Diversion & Basin 2
 - Tevis Diversion
- Open Channels**
- DD6 Channel
 - Non-DD6 Channel



**500-Year WSEL Reductions
 Lucas Diversion**

DD6

Exhibit # 71