

Appendix B

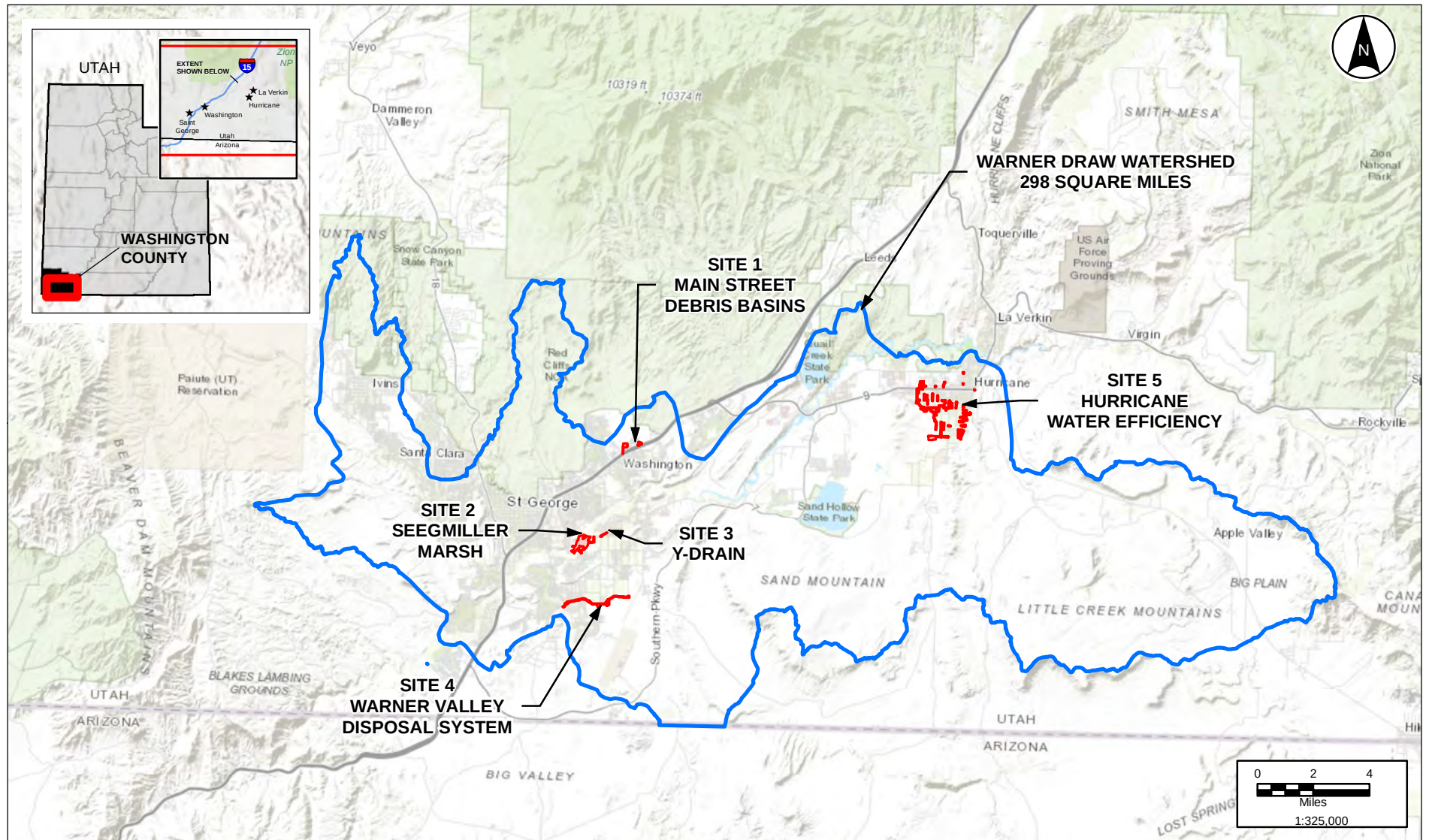
Project Maps

Overview Maps

Existing Condition Maps

Alternative Maps

Overview Maps



NAD 1983 UTM Zone 12N

Source: Esri, USGS,
Bowen Collings 2019

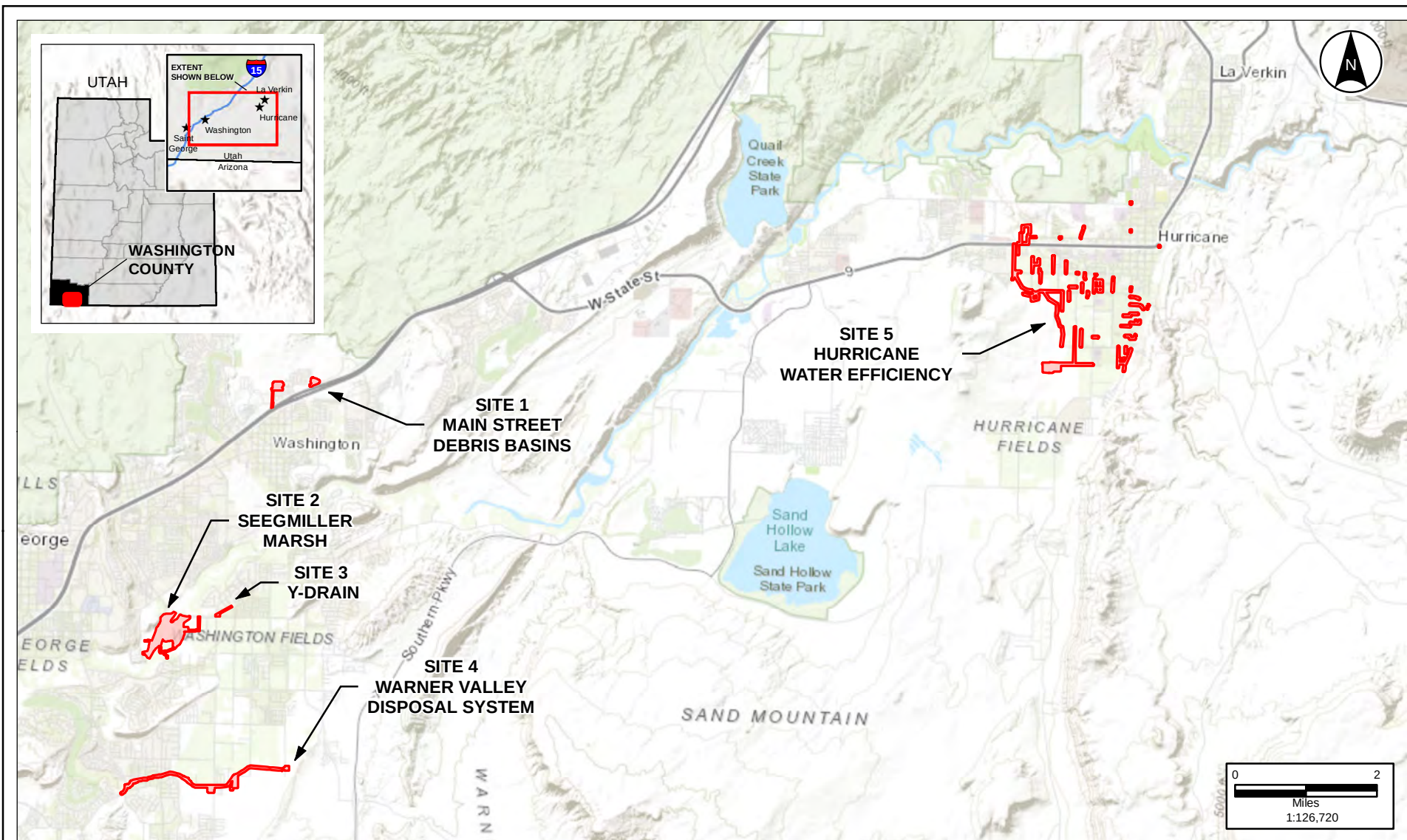
Legend

- Project Area
- Warner Draw Watershed



Map B1 Watershed Map

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N

Source: Esri, USGS,
Bowen Collings 2019

Legend

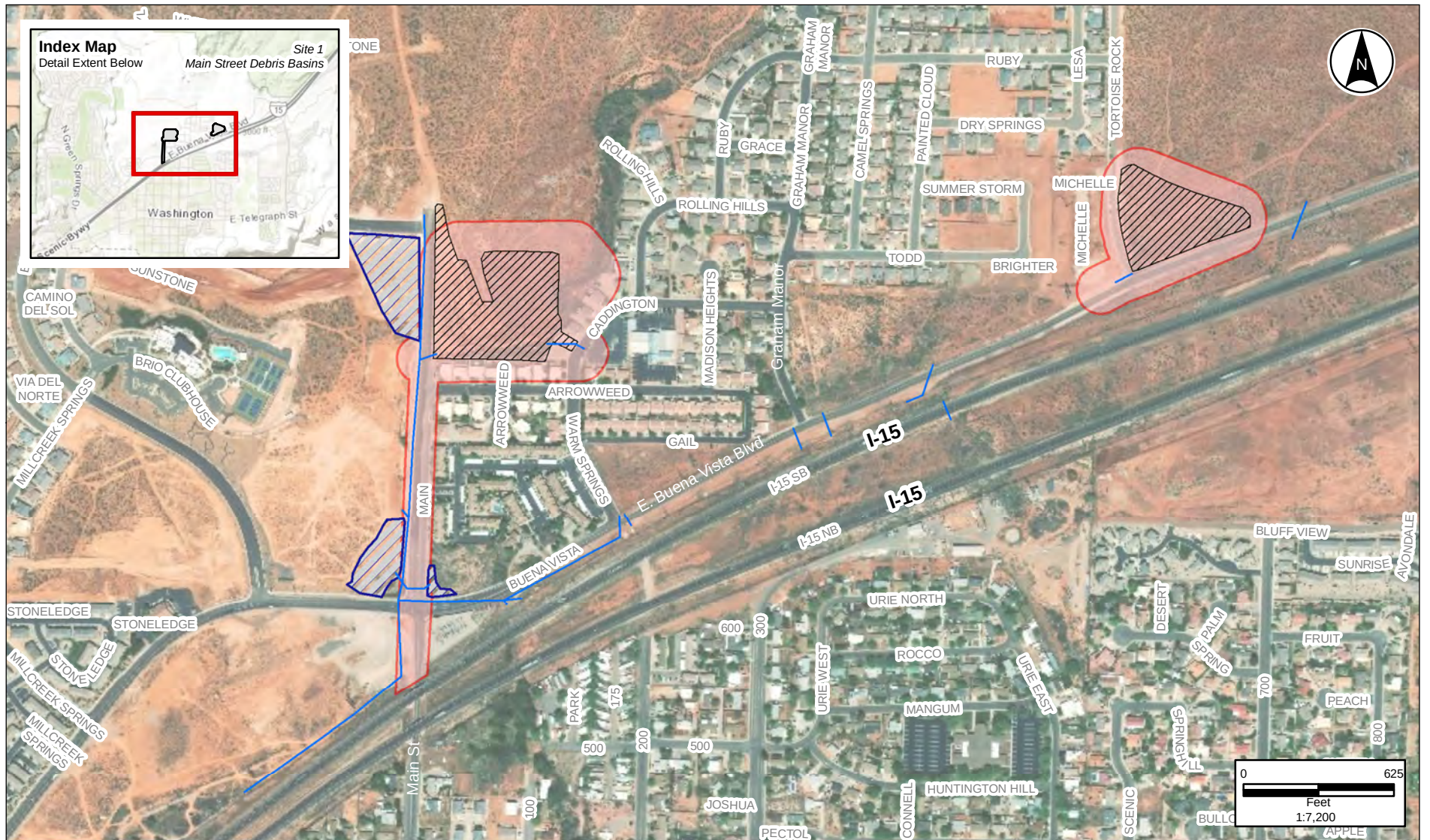
Project Area



Map B2 Vicinity Map

**Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA**

Existing Condition Maps



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

Legend

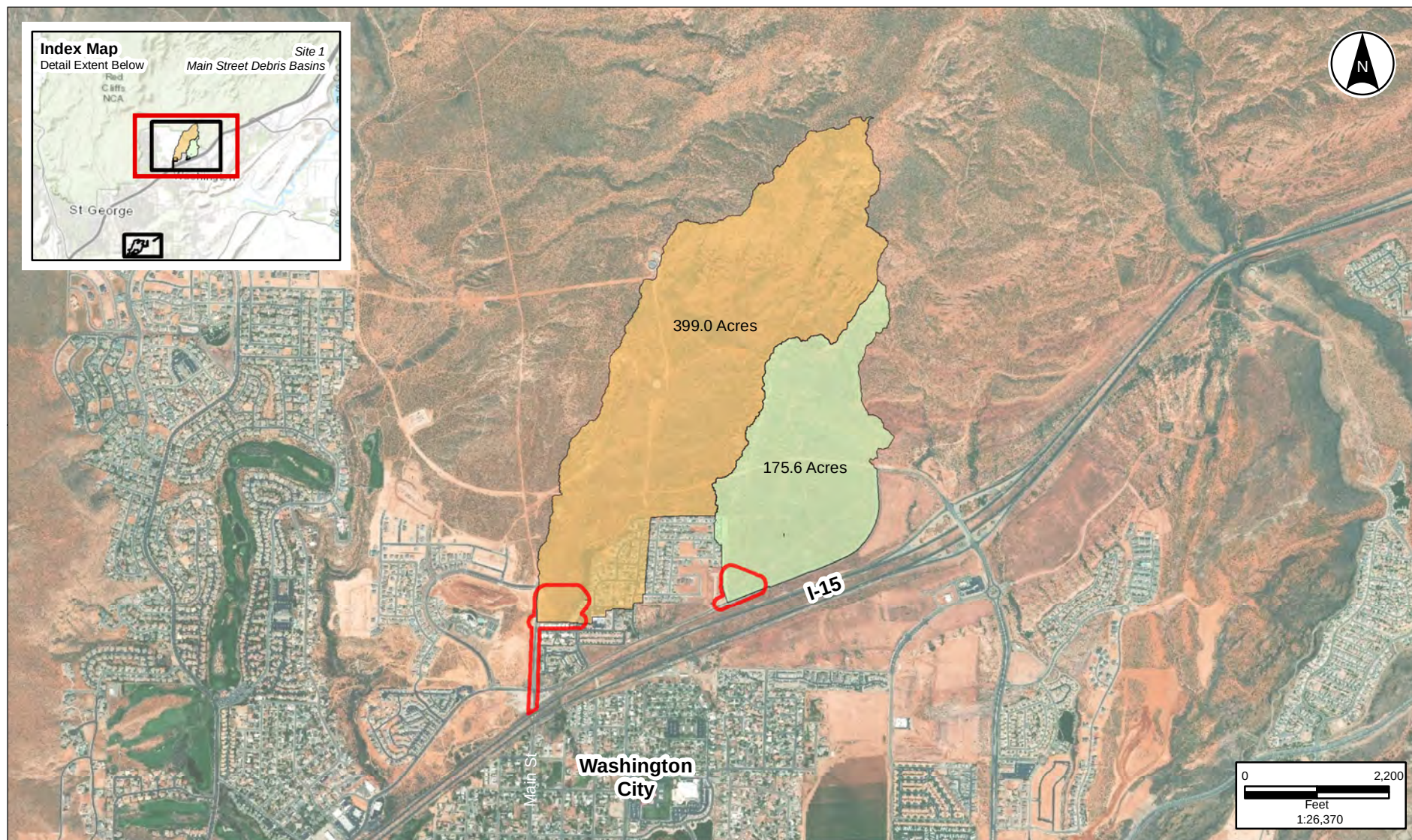
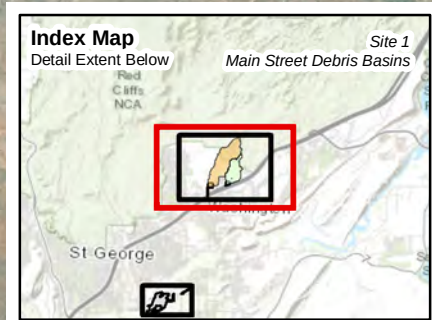
-  Existing Catch Basin
-  Disturbance*
-  Existing Stormwater Drainage Pipe
-  Project Area

*Excavation/Fill from June 2019 construction activities



Map B3.1A Main Street Debris Basins Existing Conditions

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

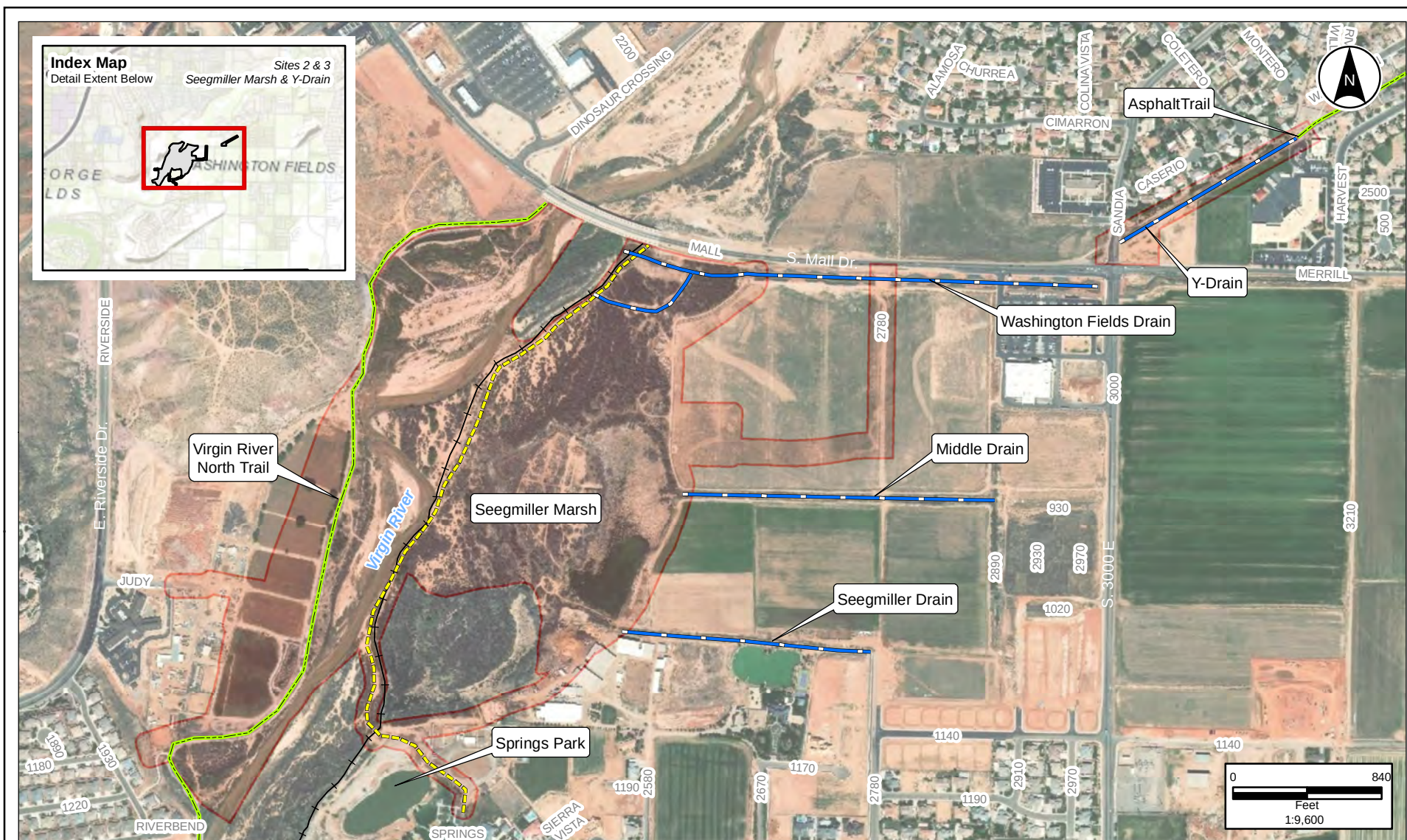
Legend

-  Project Area
-  Main Street Basin
Drainage Area
-  Buena Vista Basin
Drainage Area



Map B3.1B
Main Street Debris Basins
Drainage Areas

**Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA**



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

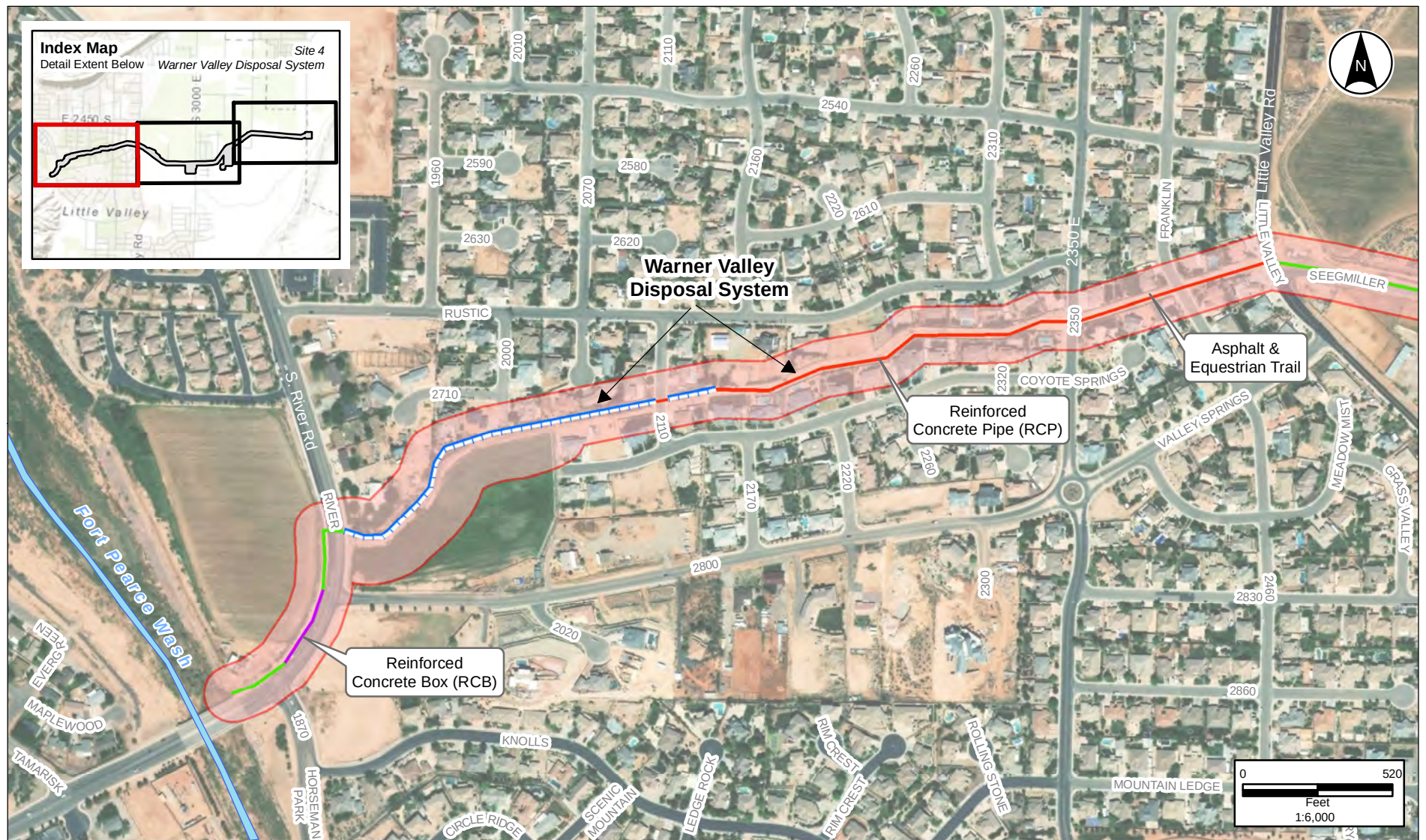
Legend

- Project Area
- Existing Erosion Protection
- Trail
- Existing Maintenance Access Road
- Drainage Ditch



Map B3.2 Seegmiller Marsh & Y-Drain Existing Conditions

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

Legend

Disposal System Features

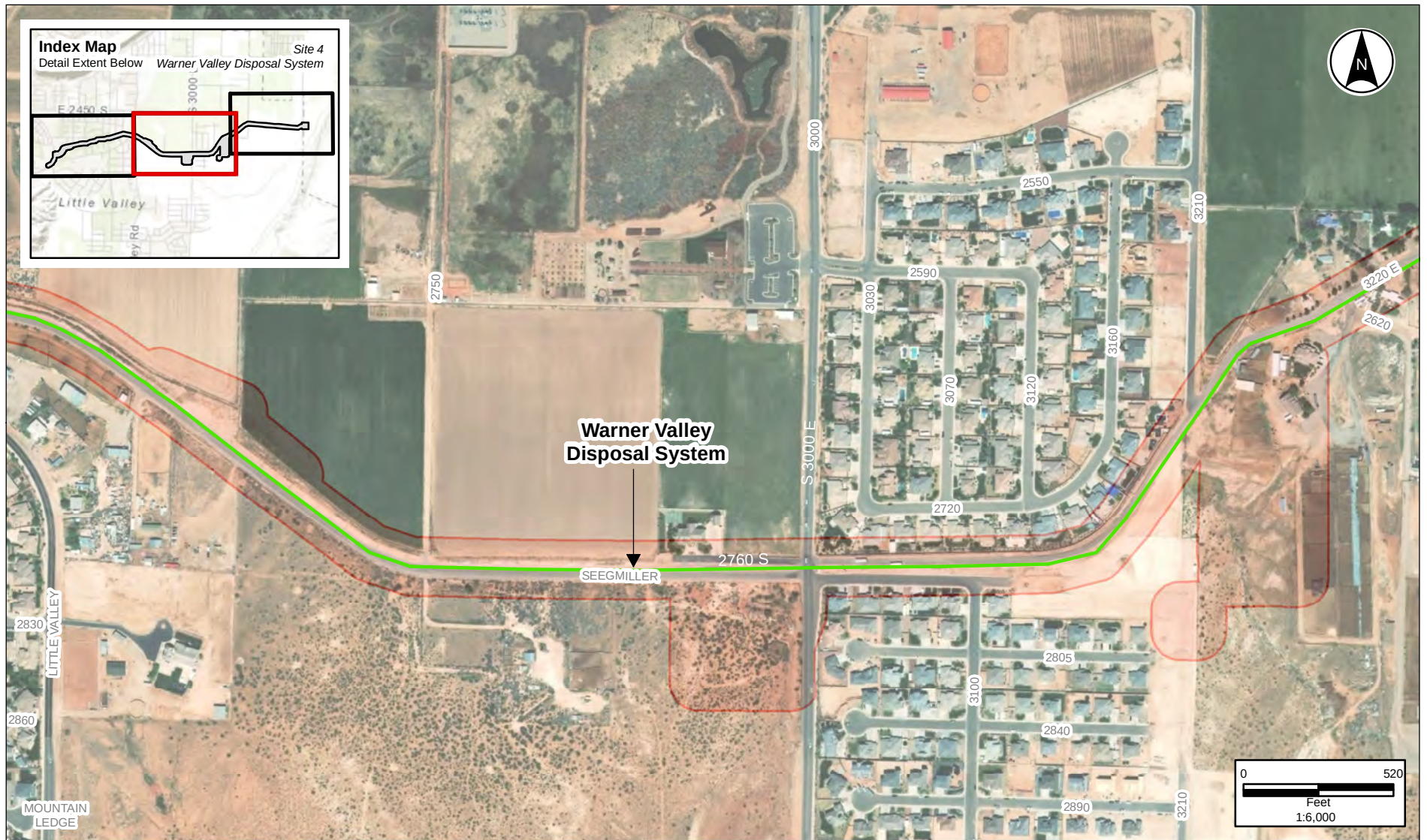
- 7'x3' RCB
- 66-inch RCP
- 72-inch RCP

- Open Channel
- Project Area



Map B3.3A Warner Valley Disposal System Existing Conditions

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

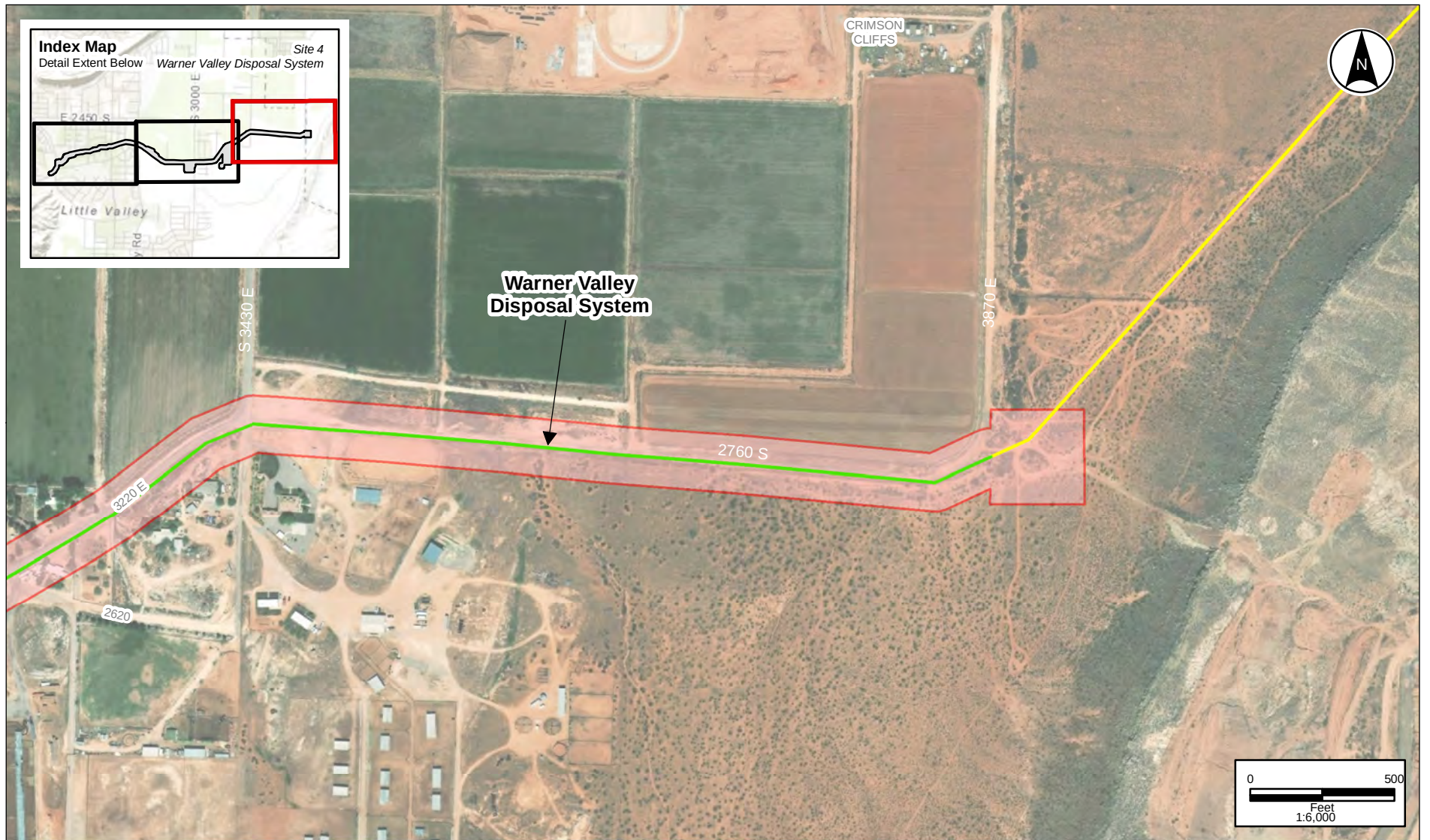
Legend

- Project Area
- Disposal System Features**
- 66-inch RCP



Map B3.3B
Warner Valley Disposal System
Existing Conditions

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

Legend

Disposal System Features

- 42-inch RCP
- 66-inch RCP

Project Area



Map B3.3C Warner Valley Disposal System Existing Conditions

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
 Source: Esri, USGS,
 Bowen Collins 2019
 McMillen Jacobs Associates 2019
 Image: DigitalGlobe September 2016

Legend

- 6-inch Irrigation Pipe
- 10-inch Irrigation Pipe
- Project Area



Map B3.4A
Hurricane Water Efficiency
Existing Conditions
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



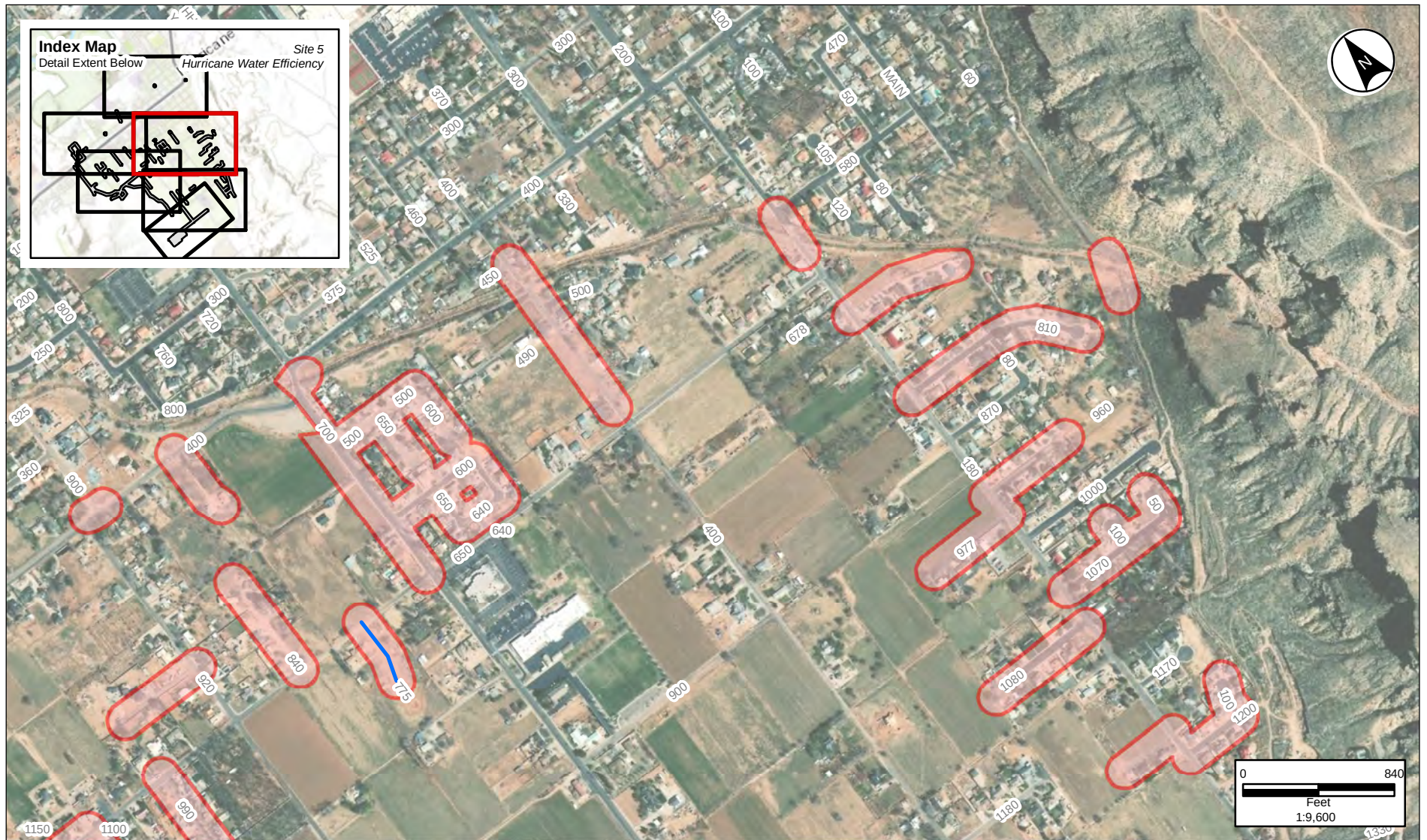
NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe September 2016

Legend

- 6-inch Irrigation Pipe
- Project Area



Map B3.4B
Hurricane Water Efficiency
Existing Conditions
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe September 2016

Legend

- Project Area
- 6-inch Irrigation Pipe

USDA
United States Department of Agriculture
Natural Resources Conservation Service

Map B3.4C
Hurricane Water Efficiency
Existing Conditions
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe September 2016

Legend

- 4-inch irrigation pipe
- 6-inch irrigation pipe
- Project Area



Map B3.4D
Hurricane Water Efficiency
Existing Conditions
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



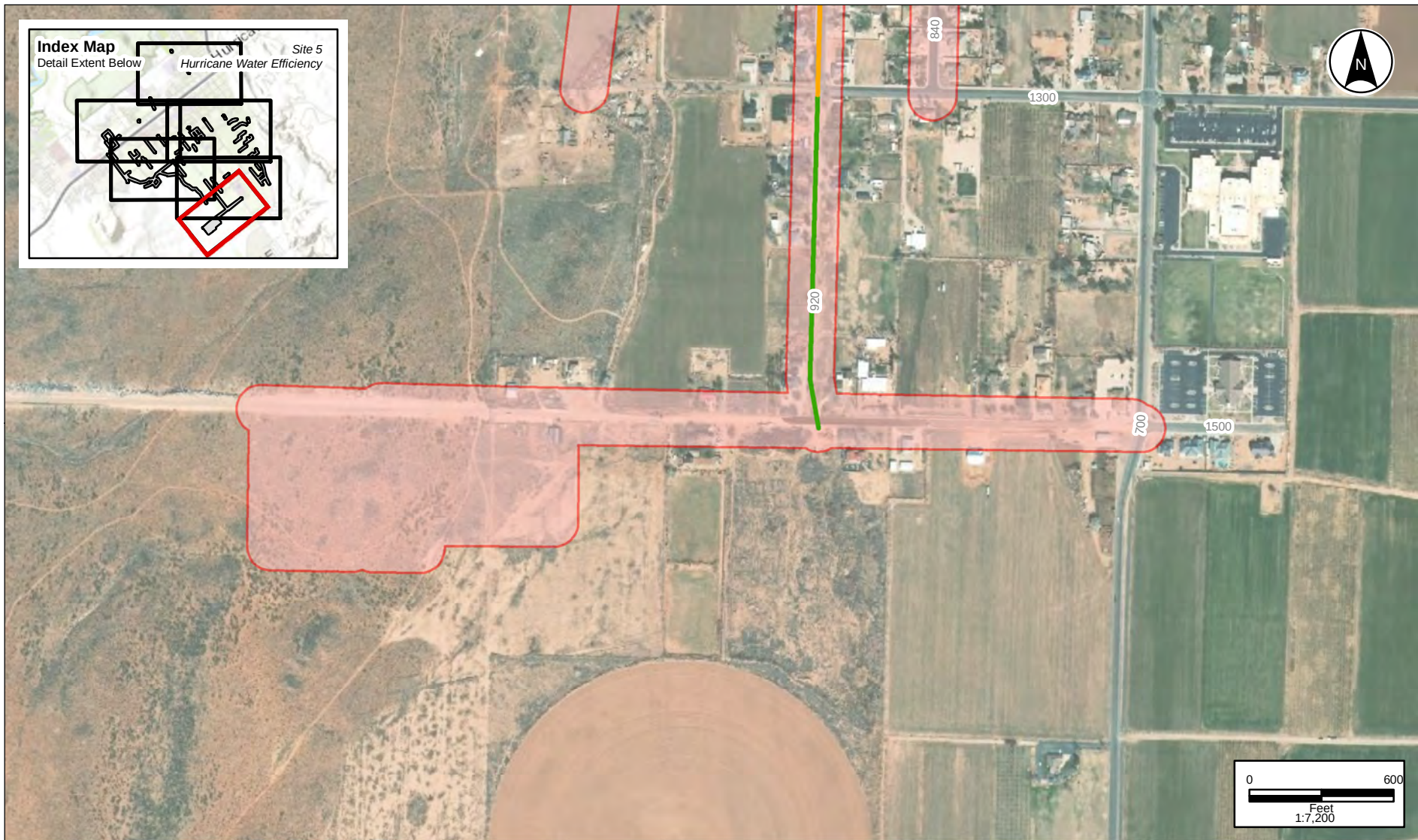
NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe September 2016

Legend

- 6-inch Irrigation Pipe
- 10-inch Irrigation Pipe
- 15-inch Irrigation Pipe
- Project Area



Map B3.4E
Hurricane Water Efficiency
Existing Conditions
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe September 2016

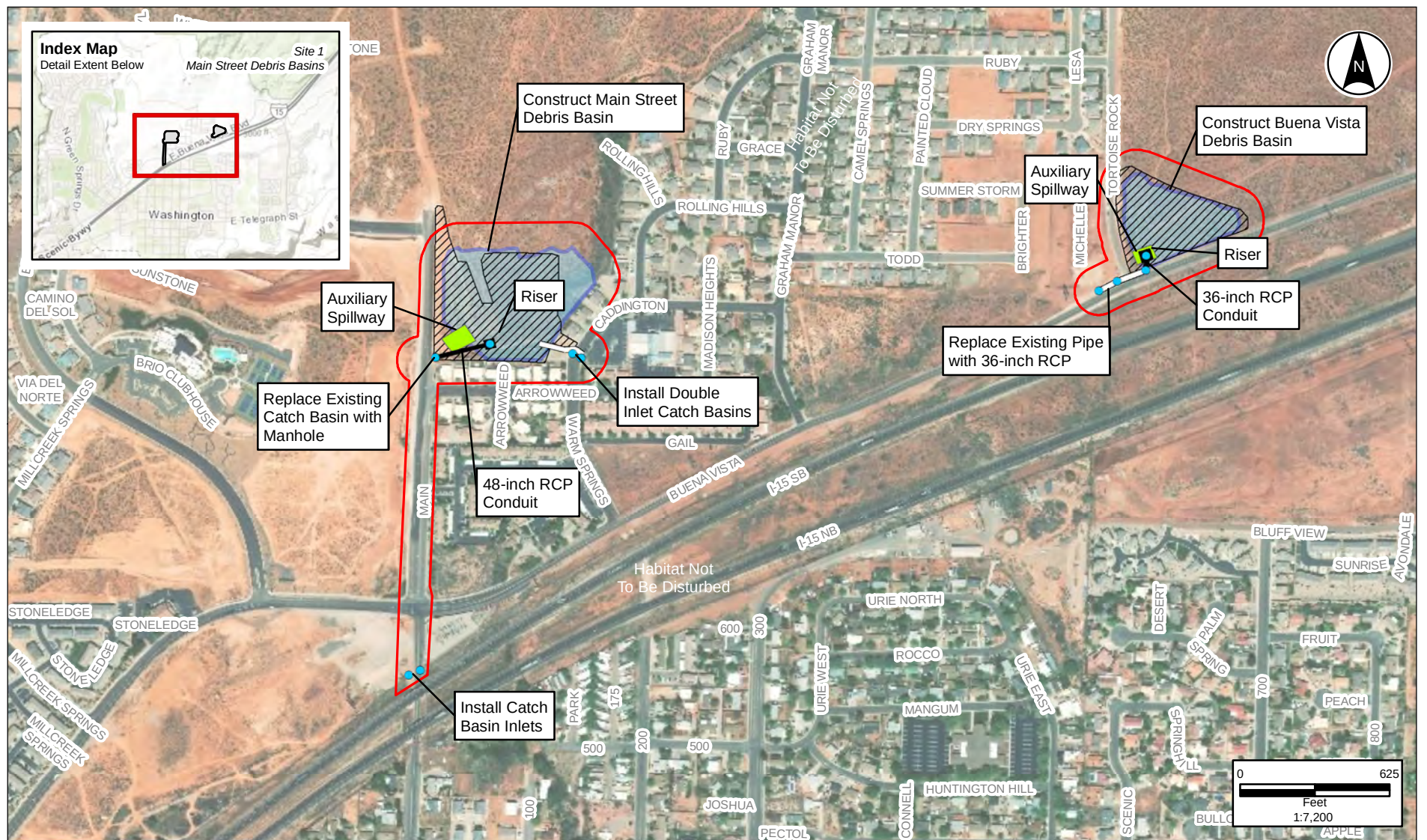
Legend

- 10-inch Irrigation Pipe
- 15-inch Irrigation Pipe
- Project Area



Map B3.4F
Hurricane Water Efficiency
Existing Conditions
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA

Alternative Maps



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

Legend

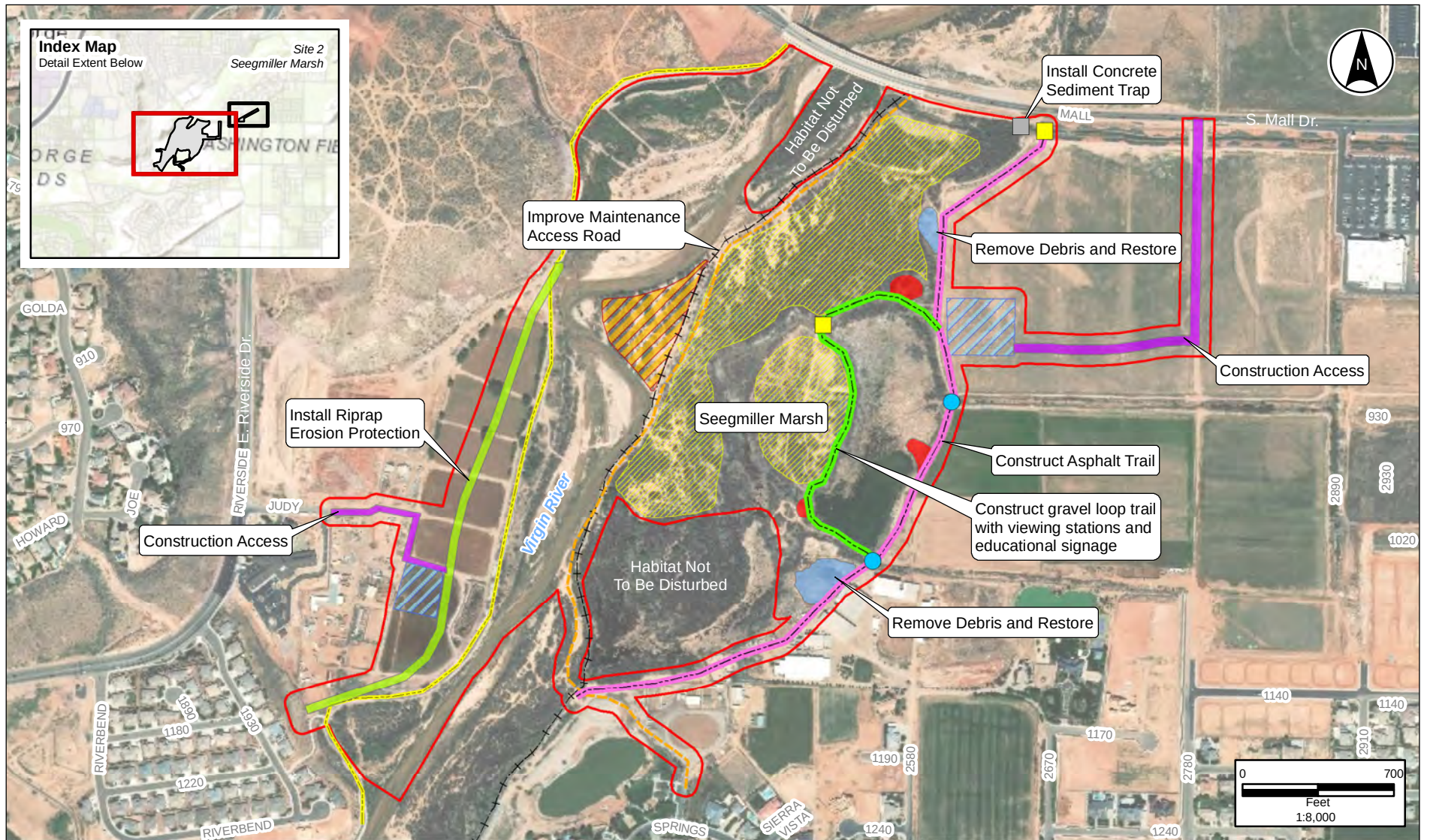
- Project Area
- Principal Spillway
- Inlets/Manholes
- Existing Disturbance*
- Piping
- Debris Basins
- Auxiliary Spillway

*Excavation/Fill from June 2019 construction activities



Map B4.1 Main Street Debris Basins Alternative

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

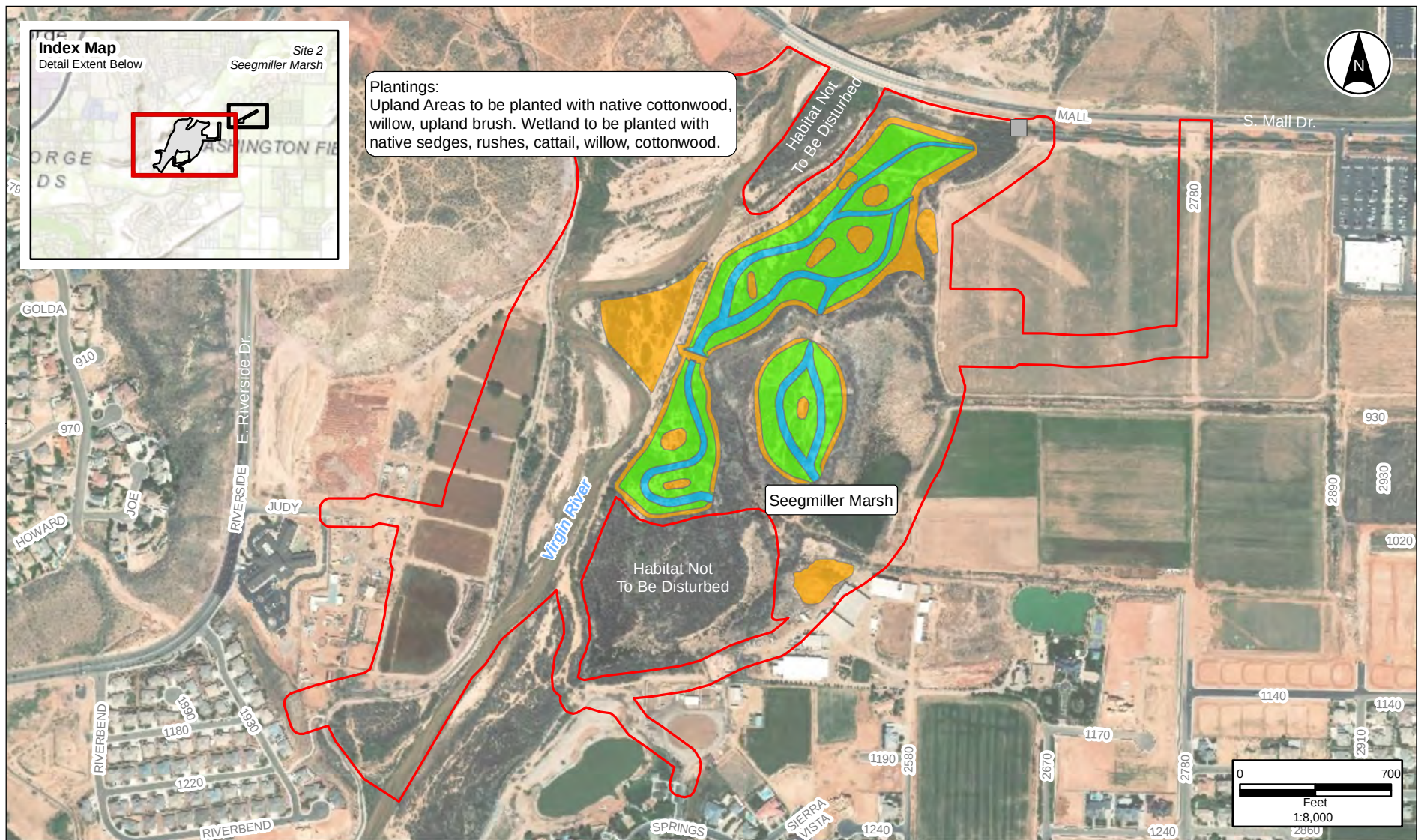
Legend

- | | | | |
|--|---|---|---|
| Project Area | Construction Access | Construction Staging | New Gravel Trail |
| Existing Erosion Protection | Bird Viewing Station | Erosion Protection | Pedestrian Bridge |
| Existing Asphalt | Debris Removal | Excavation | ● Culvert |
| Existing Maintenance Access Road | Recontour | New Asphalt | |



Map B4.2A Seegmiller Marsh Alternative

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

Legend

- Project Area
- New Channel (5,640 LF)
- Upland (10.08 acres)
- New Wetland (14.23 acres)



Map B4.2B
Seegmiller Marsh
Alternative (Restoration/Planting)

**Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA**



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

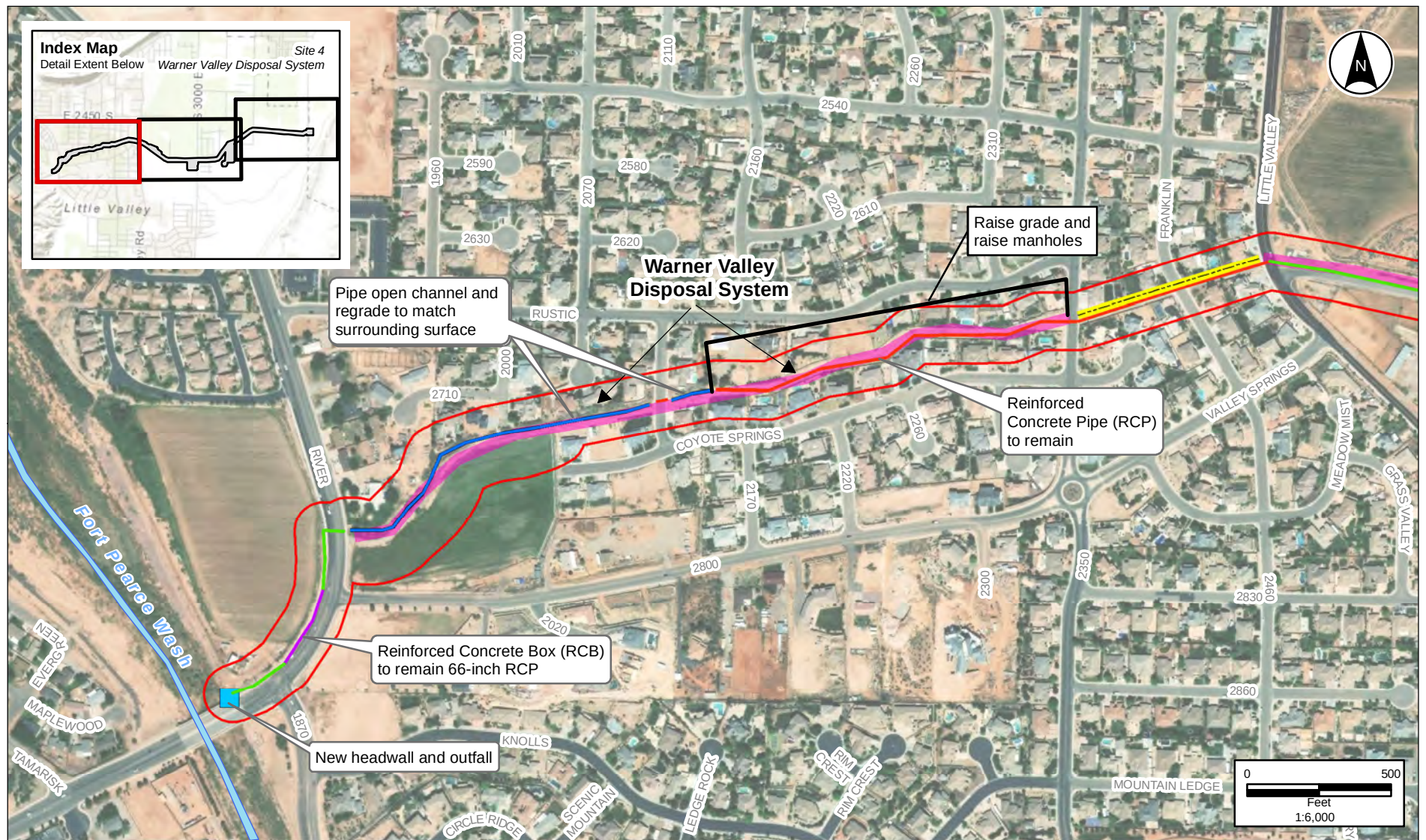
Legend

- Project Area
- New Asphalt
- Existing Asphalt
- Construction Staging
- Pipe Open Channel



Map B4.3 Y-Drain Alternative

**Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA**



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

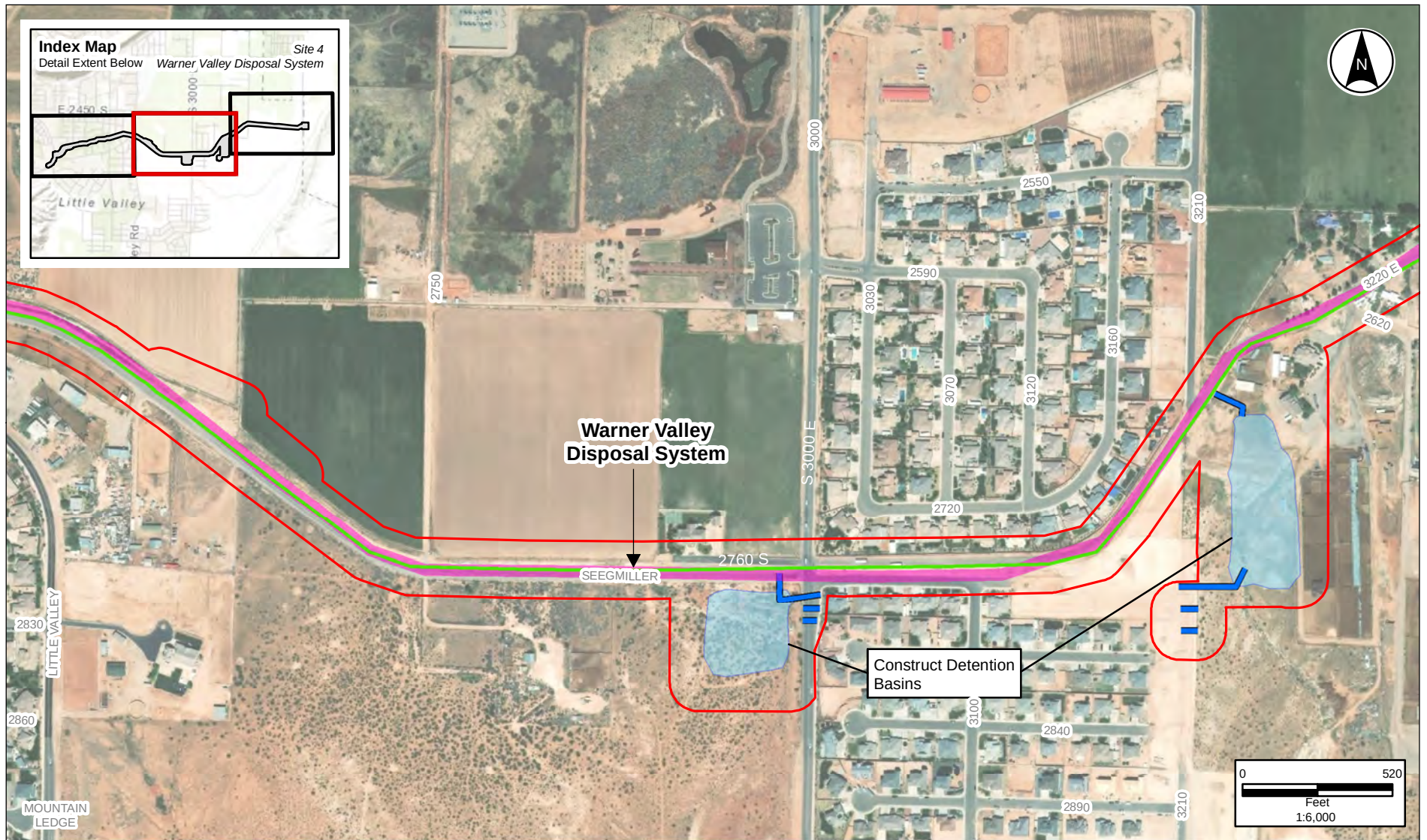
Legend

- | | |
|--|---|
| ▬ Project Area | ▬▬▬ Existing Asphalt/Equestrian Trail |
| ▬ Existing 7'x3' RCB | ■ New Outfall |
| ▬ Existing 66-inch RCP | ▬ Stream Channel |
| ▬ Existing 72-inch RCP | ▬ New Asphalt/Equestrian Trail |
| ▬ Pipe Open Channel | |



Map B4.4A Warner Valley Disposal System Alternative

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

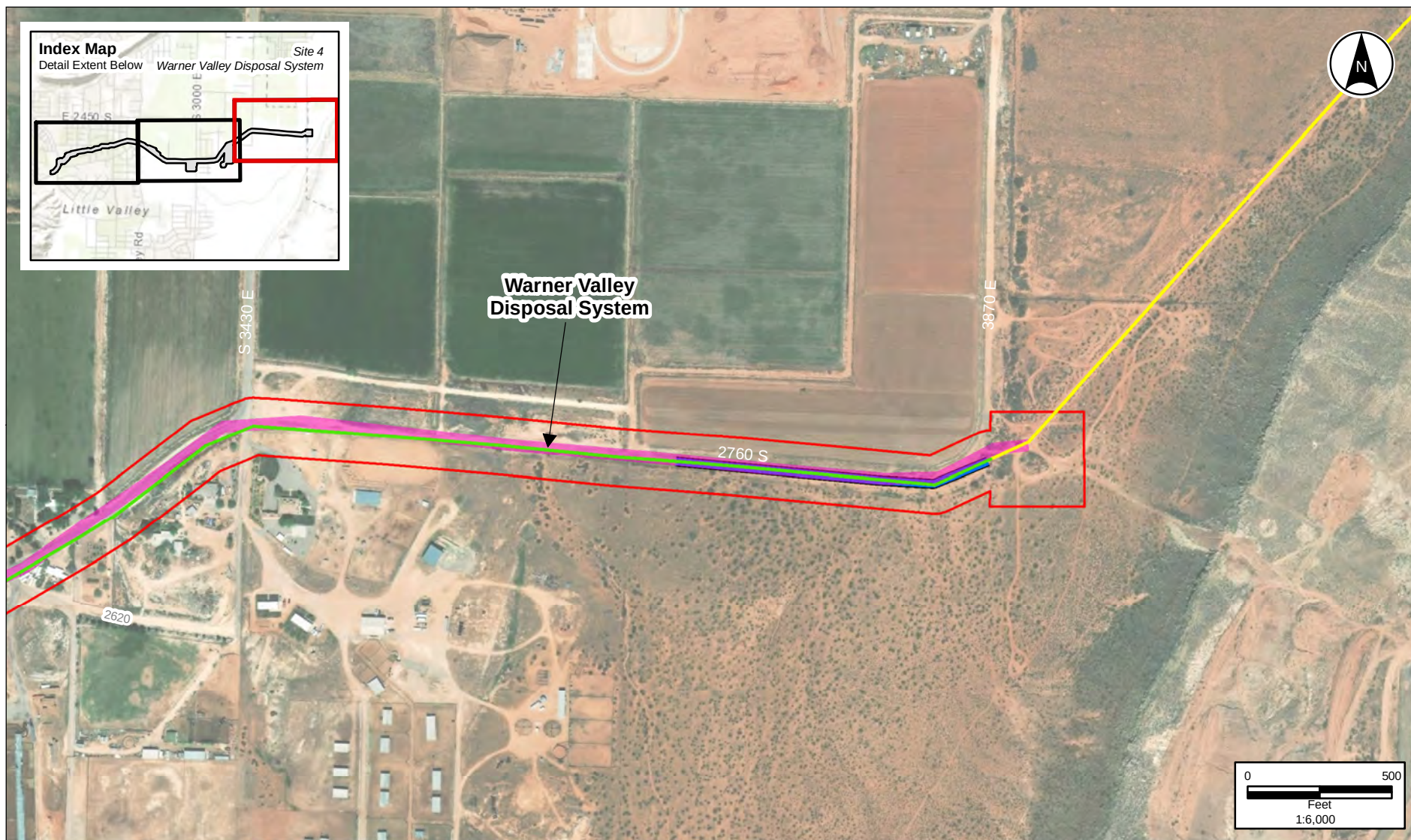
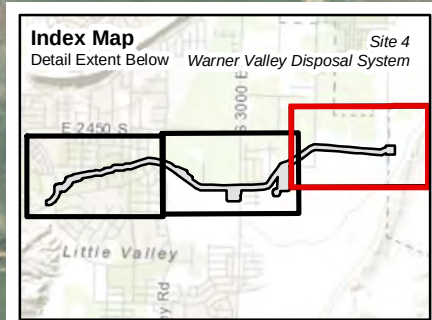
Legend

- Project Area
- Existing 66-inch RCP
- New Pipe
- New Asphalt/Equestrian Trail
- New Catch Basins



Map B4.4B Warner Valley Disposal System Alternative

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe October 2017

Legend

- Project Area
- Existing 42-inch RCP
- Existing 66-inch RCP
- Replace Pipe
- New Asphalt/Equestrian Trail



Map B4.4C
Warner Valley Disposal System
Alternative

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



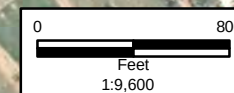
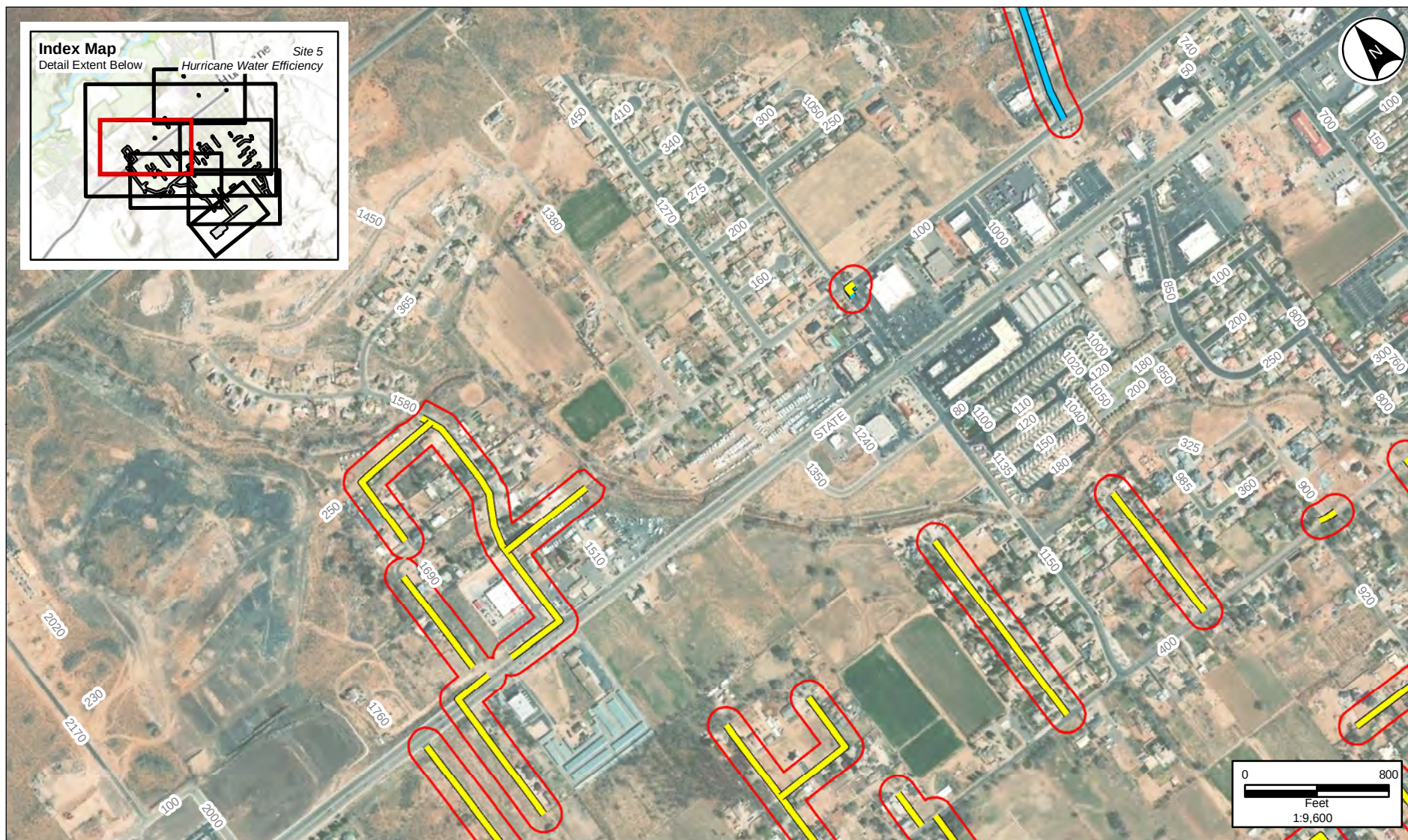
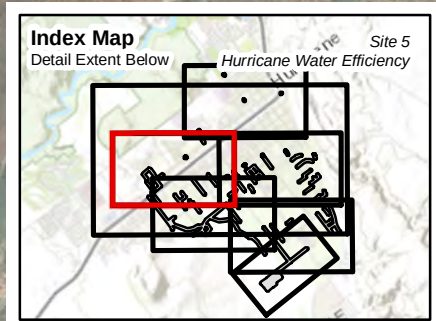
NAD 1983 UTM Zone 12N
 Source: Esri, USGS,
 Bowen Collins 2019
 McMillen Jacobs Associates 2019
 Image: DigitalGlobe September 2016

Legend

- Project Area
- Replace Existing Pipe



Map B4.5A
Hurricane Water Efficiency
Alternative
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
Source: Esri, USGS,
Bowen Collins 2019
McMillen Jacobs Associates 2019
Image: DigitalGlobe September 2016

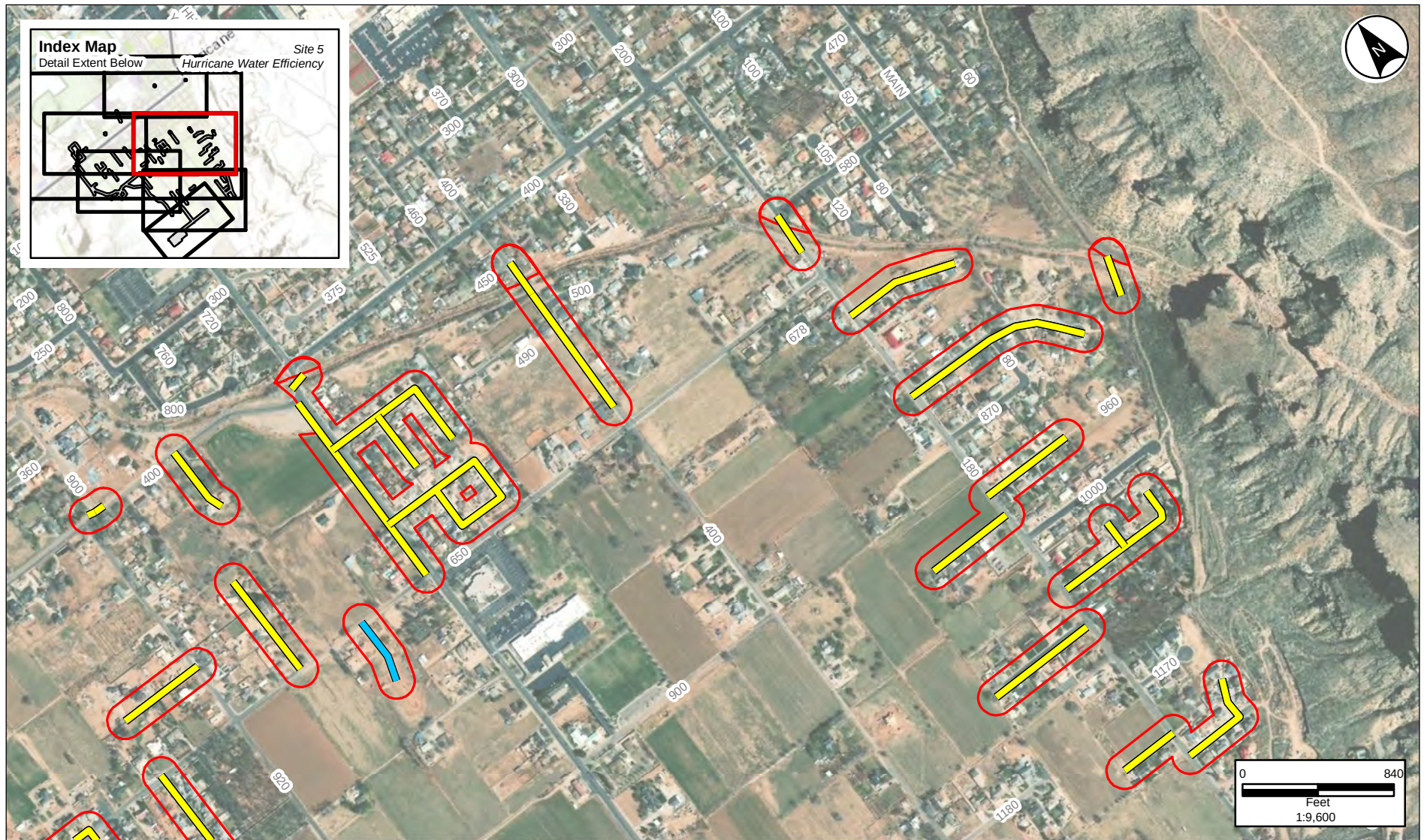
Legend

- Project Area
- New Pipe
- Replace Existing Pipe



Map B4.5B
Hurricane Water Efficiency
Alternative

Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



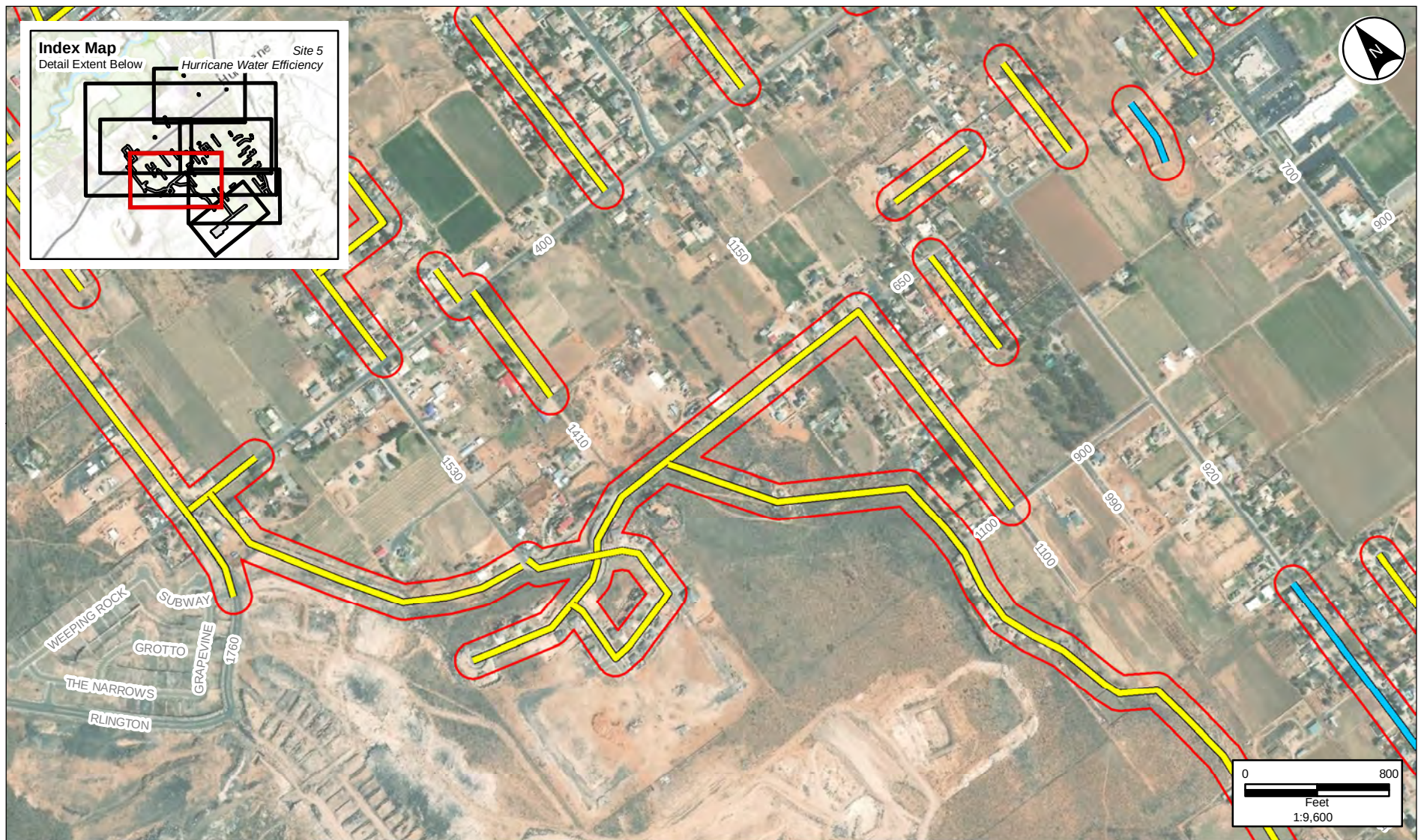
NAD 1983 UTM Zone 12N
 Source: Esri, USGS,
 Bowen Collins 2019
 McMillen Jacobs Associates 2019
 Image: DigitalGlobe September 2016

Legend

- Project Area
- Replace Existing Pipe
- New Pipe



Map B4.5C
Hurricane Water Efficiency
Alternative
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



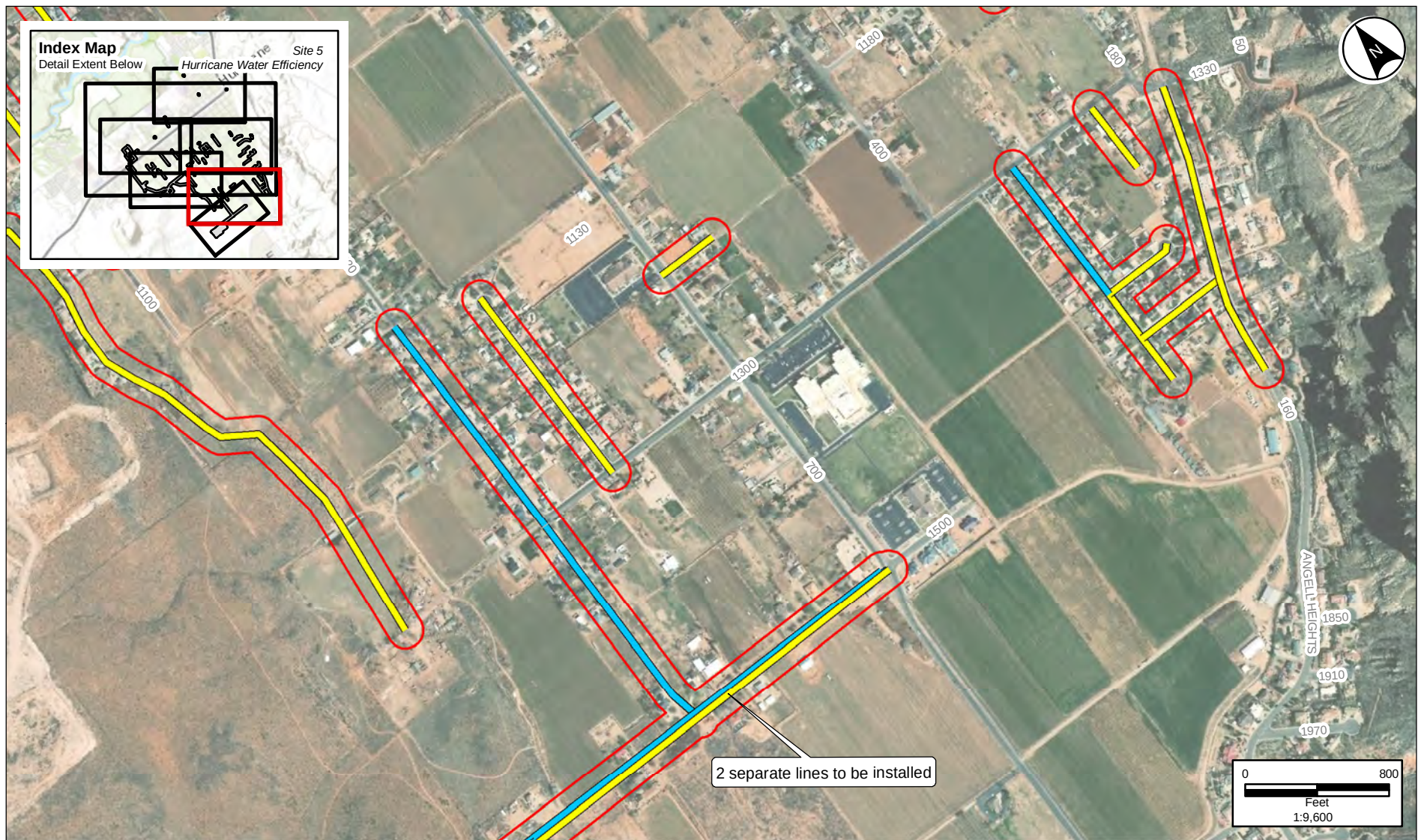
NAD 1983 UTM Zone 12N
 Source: Esri, USGS,
 Bowen Collins 2019
 McMillen Jacobs Associates 2019
 Image: DigitalGlobe September 2016

Legend

- Project Area
- New Pipe
- Replace Existing Pipe



Map B4.5D
Hurricane Water Efficiency
Alternative
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



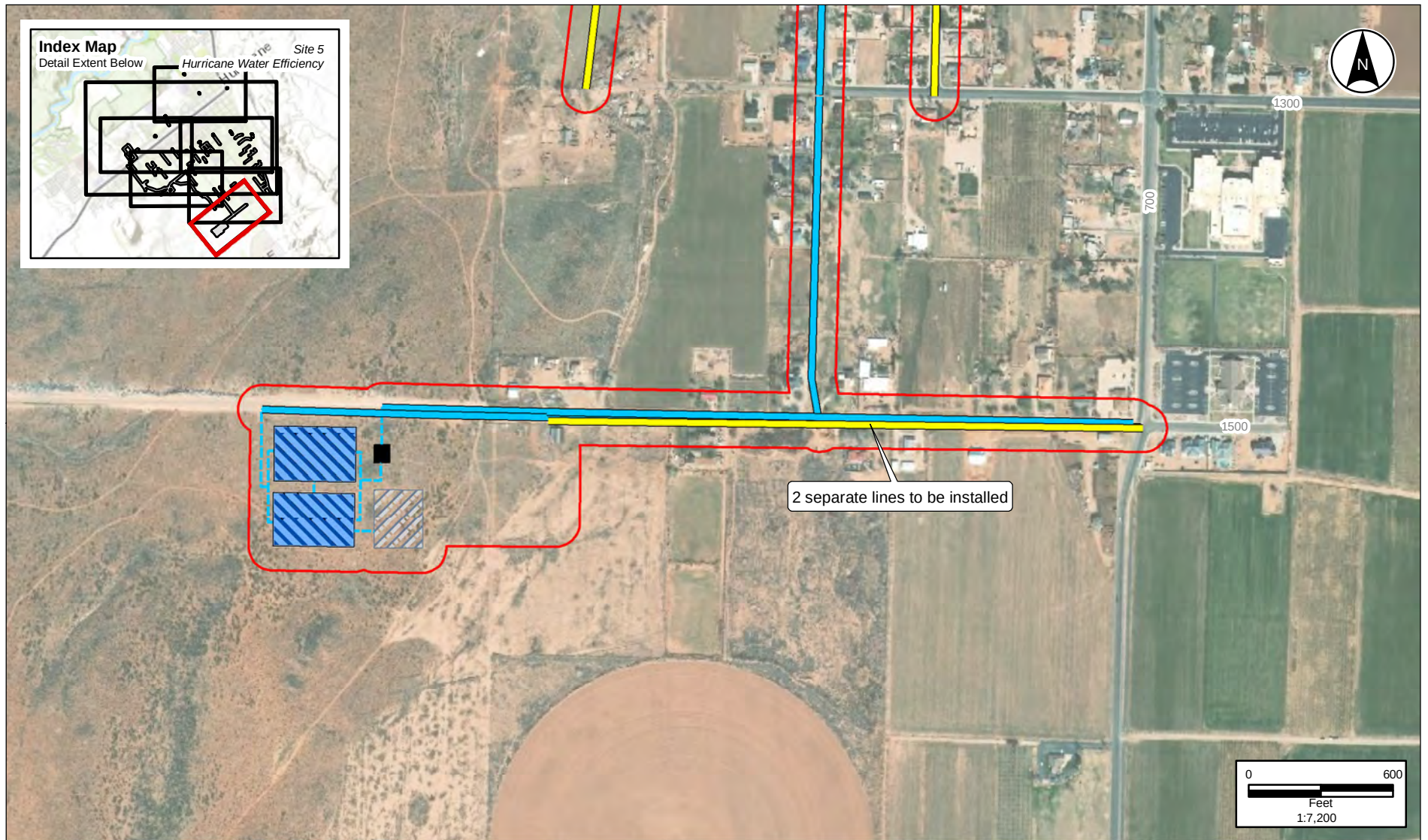
NAD 1983 UTM Zone 12N
 Source: Esri, USGS,
 Bowen Collins 2019
 McMillen Jacobs Associates 2019
 Image: DigitalGlobe September 2016

Legend

- Project Area
- New Pipe
- Replace Existing Pipe



Map B4.5E
Hurricane Water Efficiency
Alternative
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA



NAD 1983 UTM Zone 12N
 Source: Esri, USGS,
 Bowen Collins 2019
 McMillen Jacobs Associates 2019
 Image: DigitalGlobe September 2016

Legend

- | | |
|---|--|
| Project Area | Hurricane Water Efficiency Storage Pond |
| New Pipe | 3MG Storage Pond |
| Replace Existing Pipe | Pump Station |
| | Sludge Pond |



Map B4.5F
Hurricane Water Efficiency
Alternative
Warner Draw Watershed & Flood
Prevention Operations Project Plan-EA