



Figure 2-1  
Pressure Zone Boundaries  
Years 2005 - 2025

Legend

- New Tanks
- New Wells
- ▲ New Pumps
- New Pipes
- Pipes
- ▲ Pumps
- Tanks
- Nodes
- Wells
- Potential Well Locations
- Pressure Reducing Valves
- MSWD Boundary

0 2,500 5,000 Feet



Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

Future or potential well locations are conceptual  
and may change based on landuse, available  
area, hydrogeologic conditions (obtained from  
existing and future wells), and other factors.

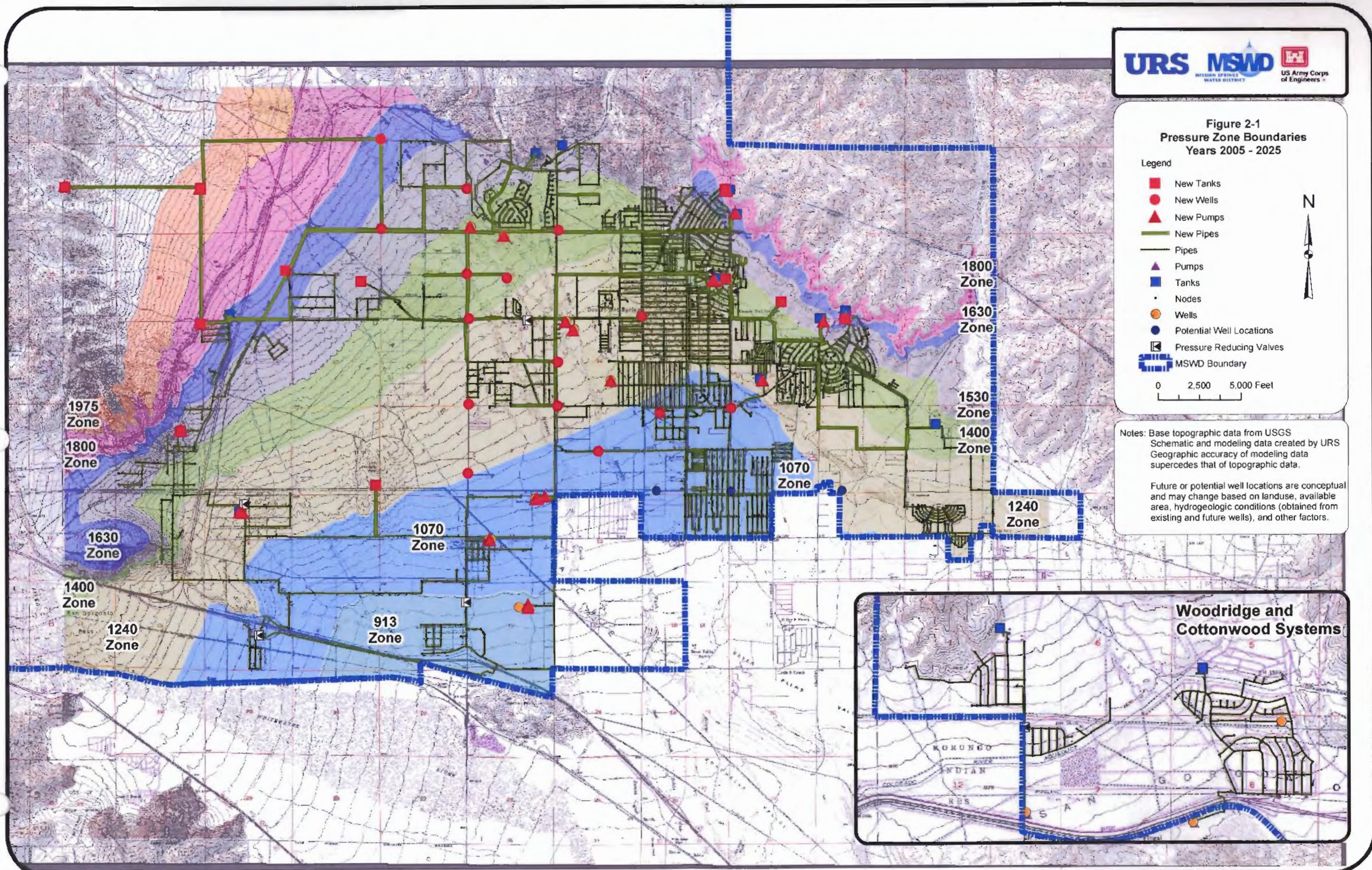




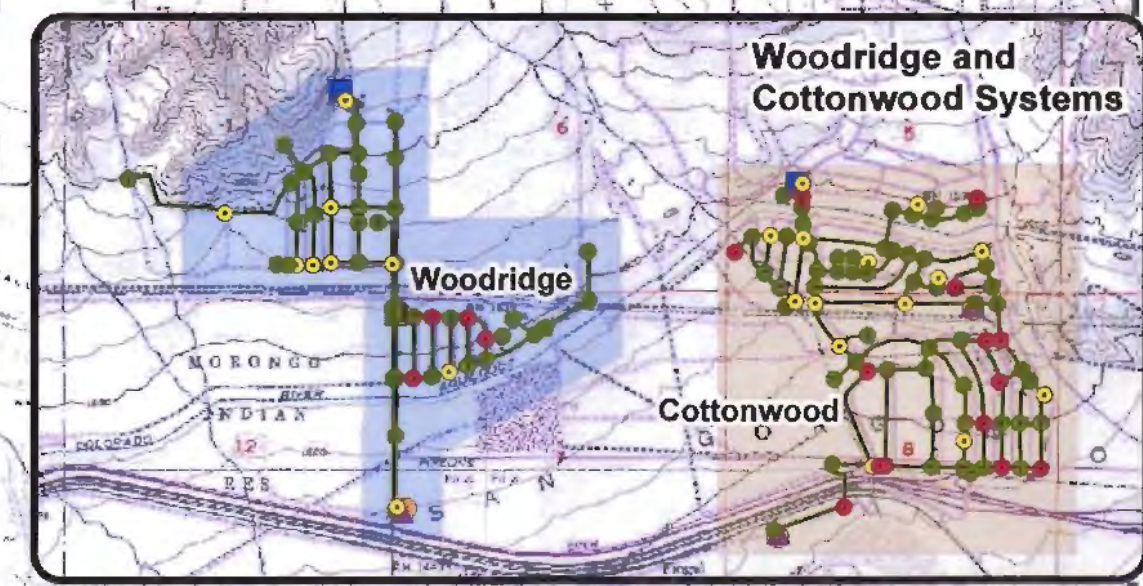
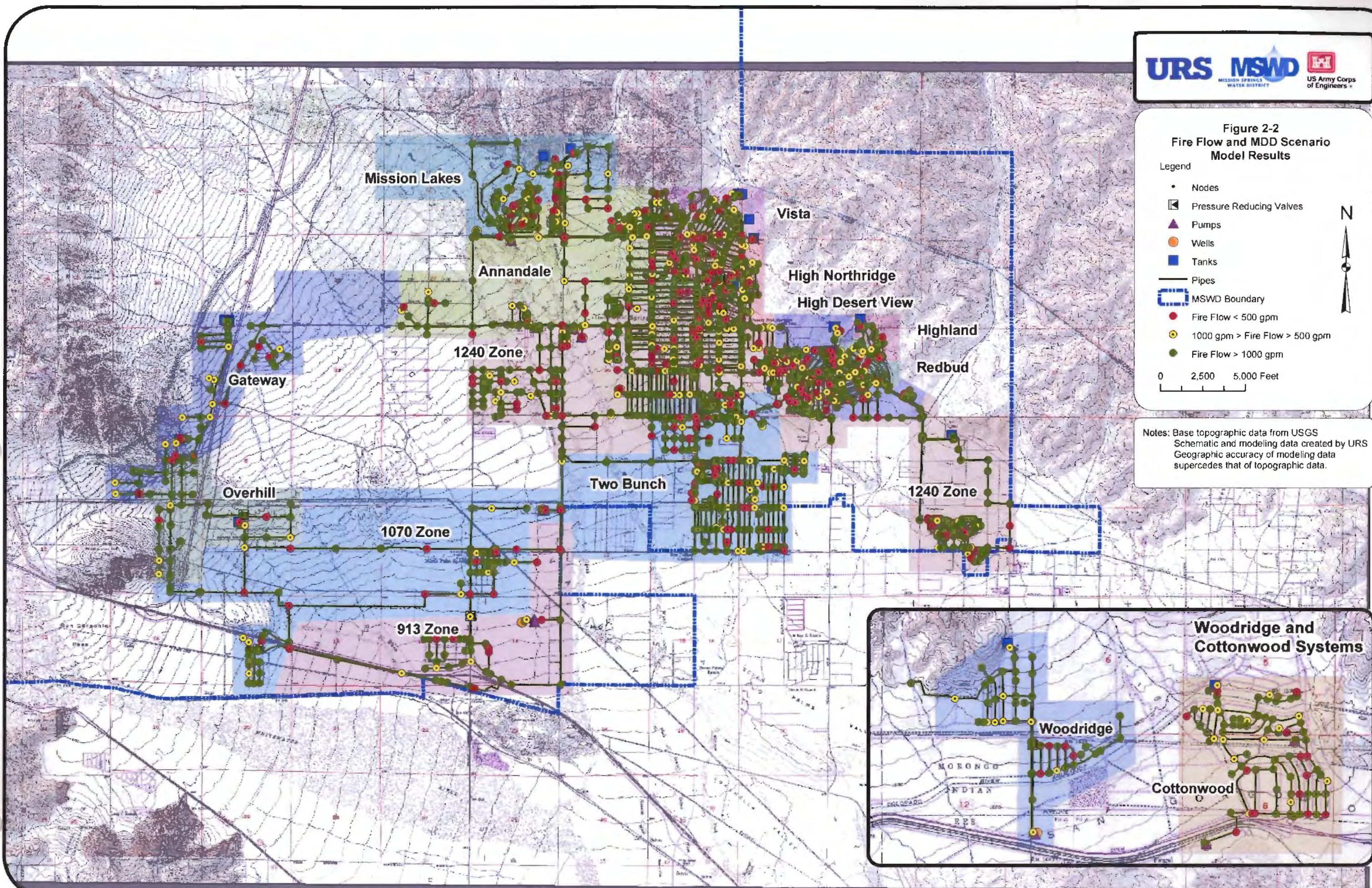
Figure 2-2  
Fire Flow and MDD Scenario  
Model Results

Legend

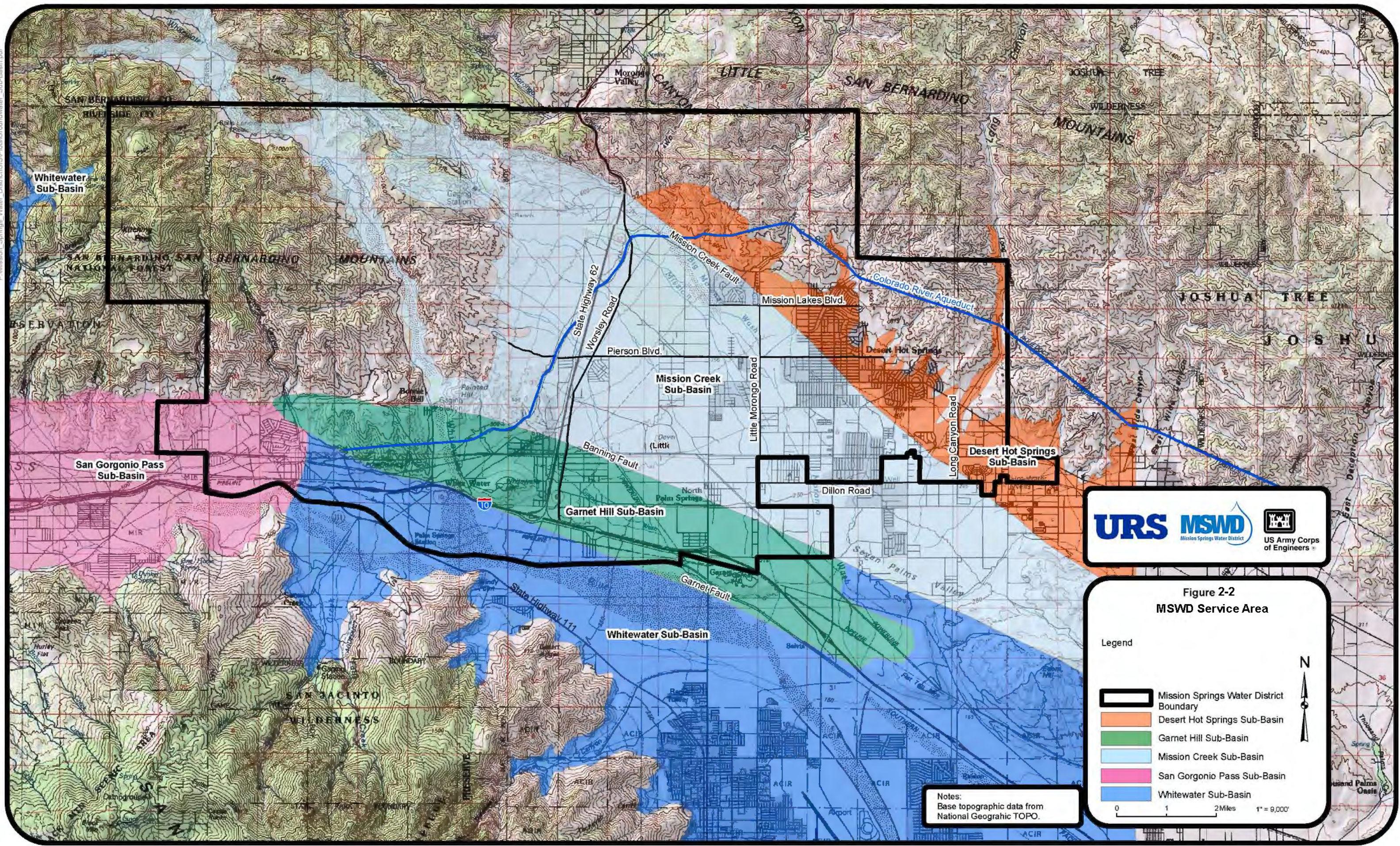
- Nodes
- ▣ Pressure Reducing Valves
- ▲ Pumps
- Wells
- Tanks
- Pipes
- ▭ MSWD Boundary
- Fire Flow < 500 gpm
- 1000 gpm > Fire Flow > 500 gpm
- Fire Flow > 1000 gpm

0 2,500 5,000 Feet

Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.









URS MSWD Mission Springs Water District US Army Corps of Engineers

**Figure 2-2**  
**MSWD Service Area**

Legend

- Mission Springs Water District Boundary
- Desert Hot Springs Sub-Basin
- Garnet Hill Sub-Basin
- Mission Creek Sub-Basin
- San Geronio Pass Sub-Basin
- Whitewater Sub-Basin

0 1 2 Miles 1" = 9,000'

Notes:  
Base topographic data from  
National Geographic TOPO.



- Legend**
- Pipes
  - Pumps
  - Tanks
  - Wells
  - MSWD Boundary

Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

**Figure 3-1**  
**Existing MSWD Water System**



0 2,500 5,000 Feet

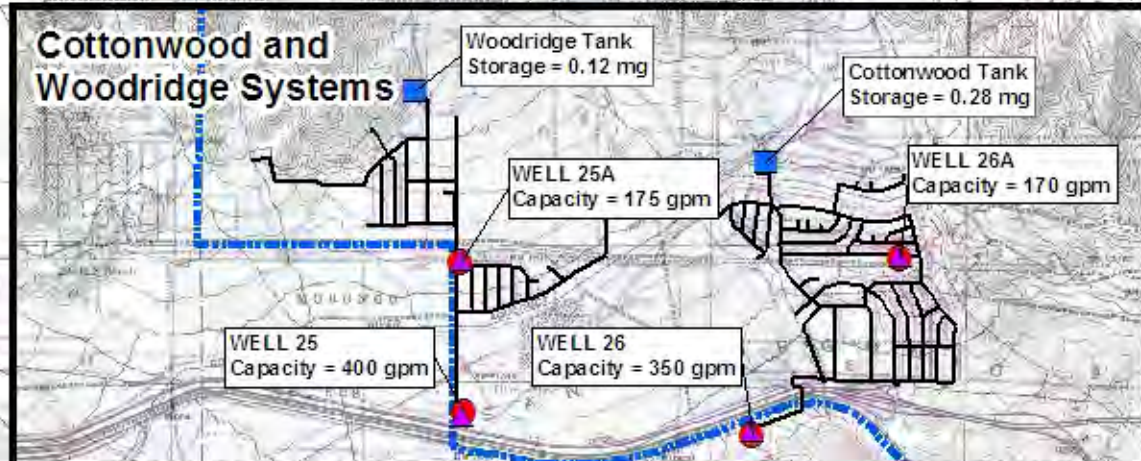
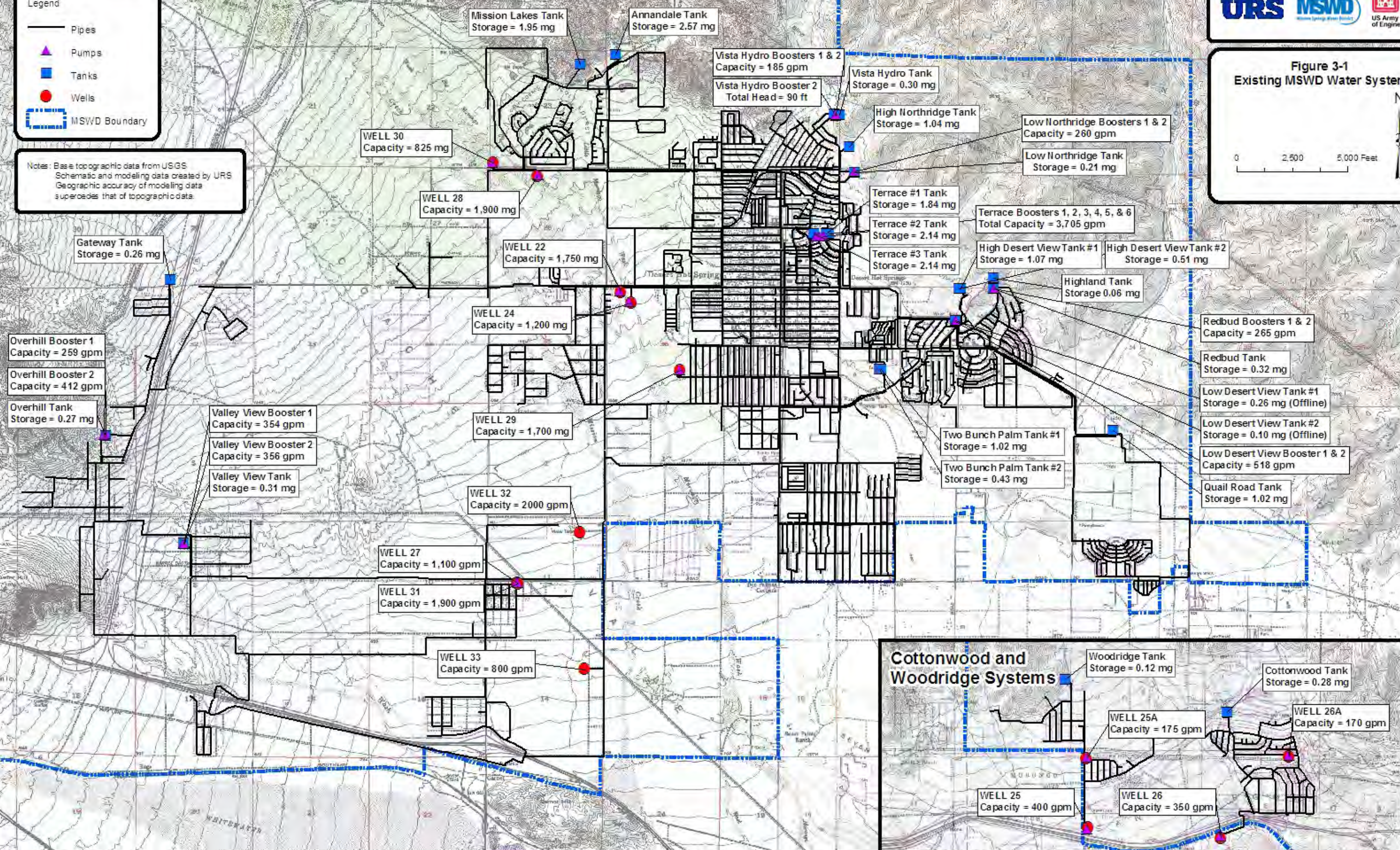
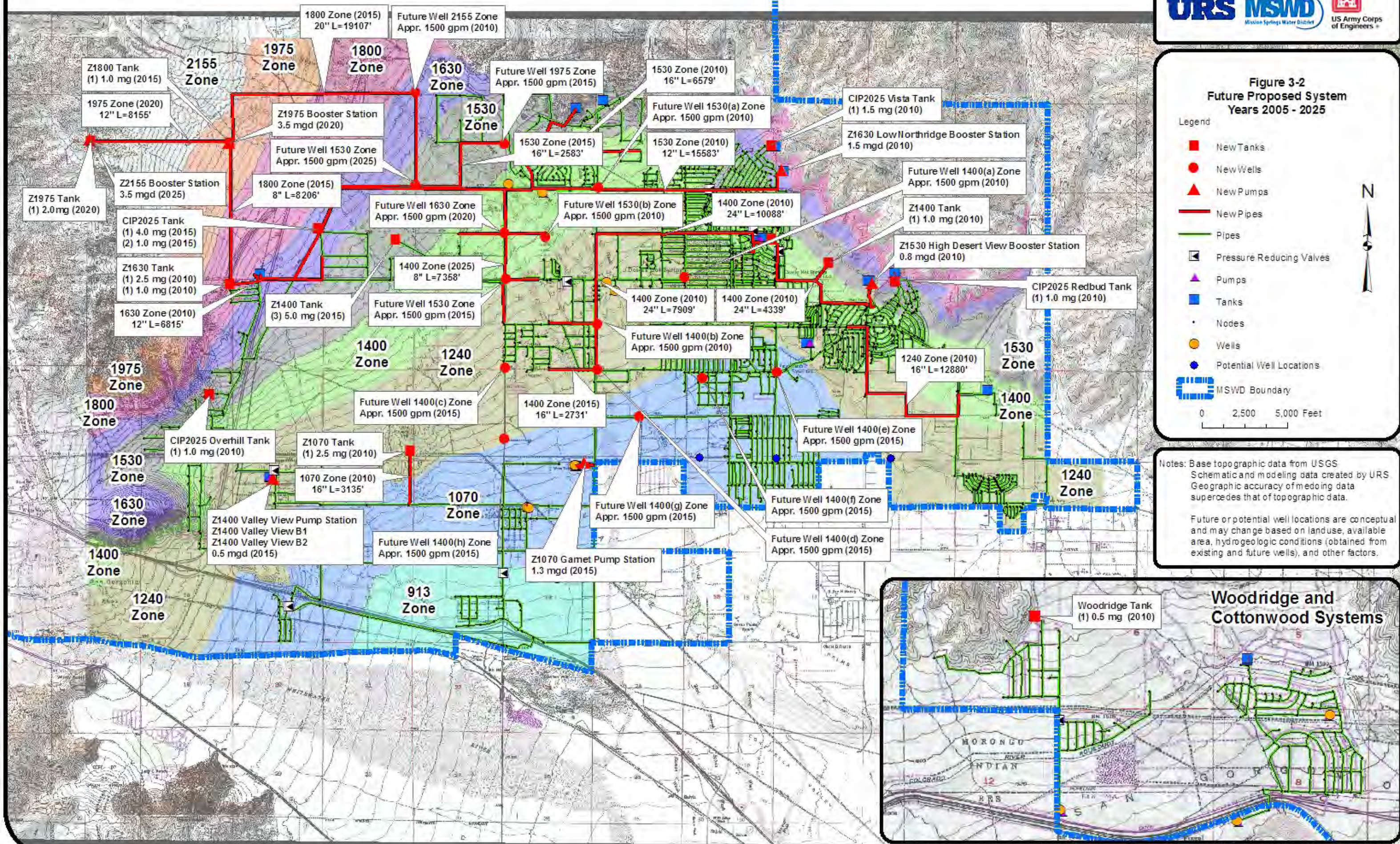


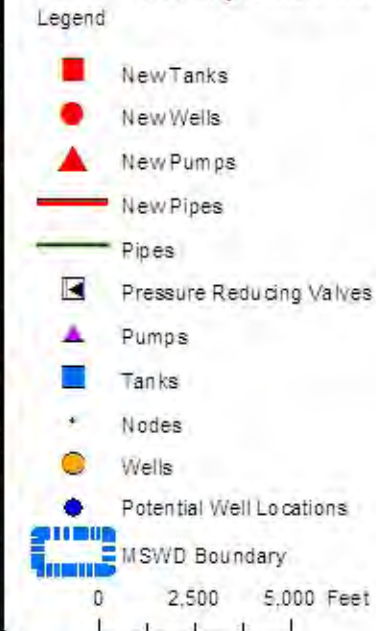


Figure 3-2  
Future Proposed System  
Years 2005 - 2025





**Figure 3.3**  
**2010 Improvement Plan**



Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

Future or potential well locations are conceptual  
and may change based on land use, available  
area, hydrogeologic conditions (obtained from  
existing and future wells), and other factors.

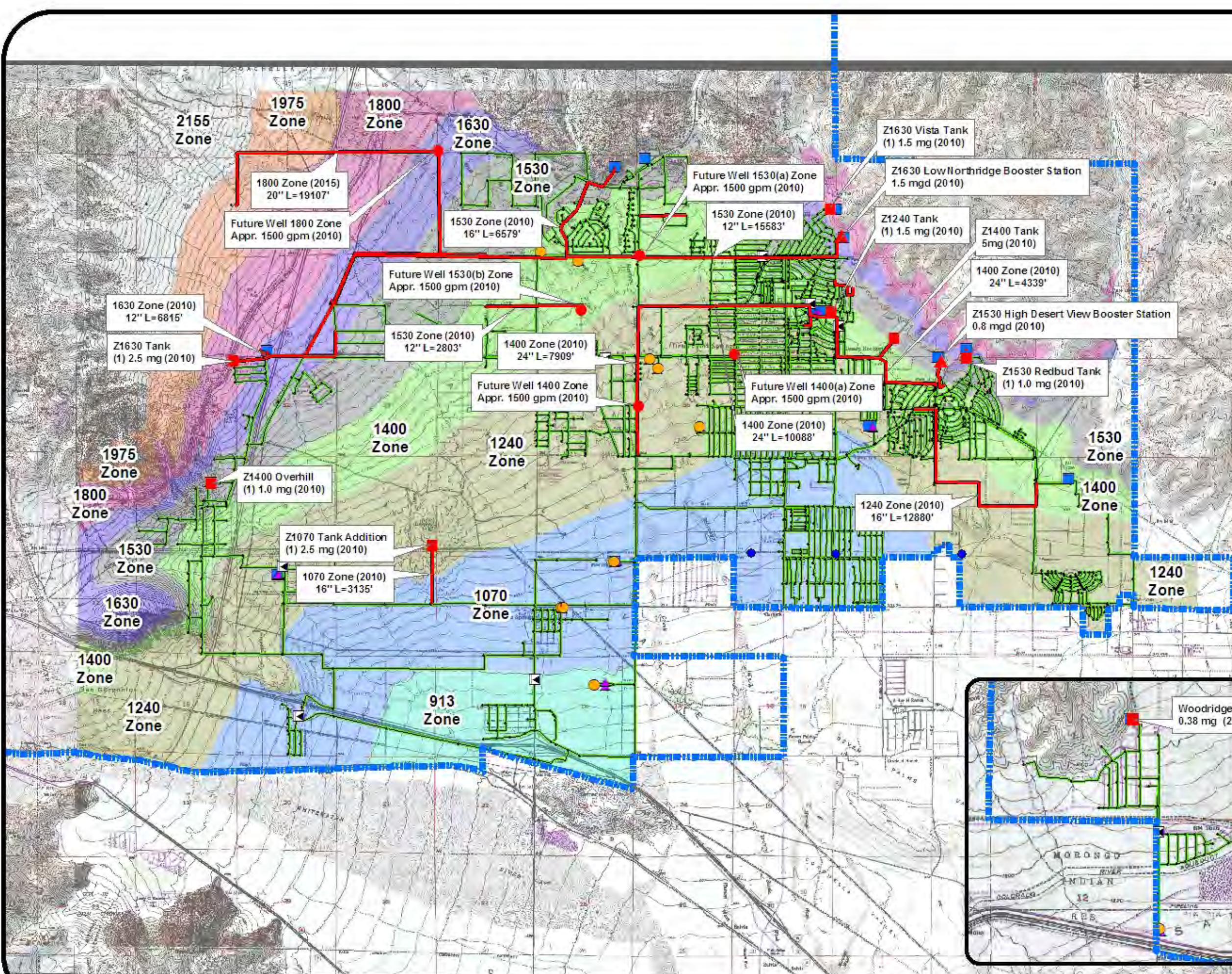
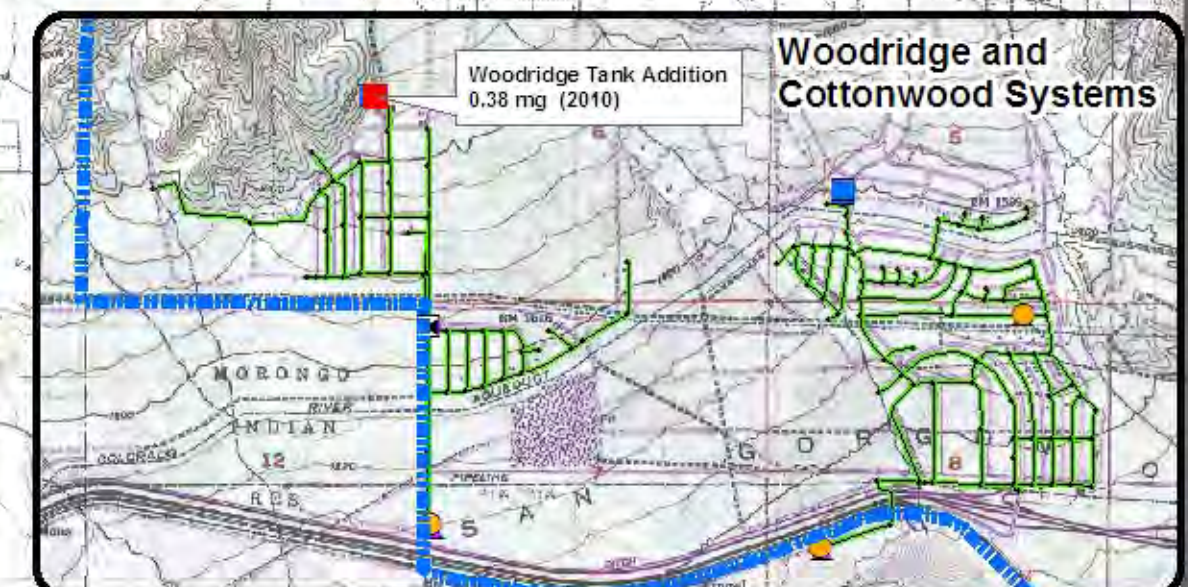




Figure 3.4  
2015 Improvement Plan

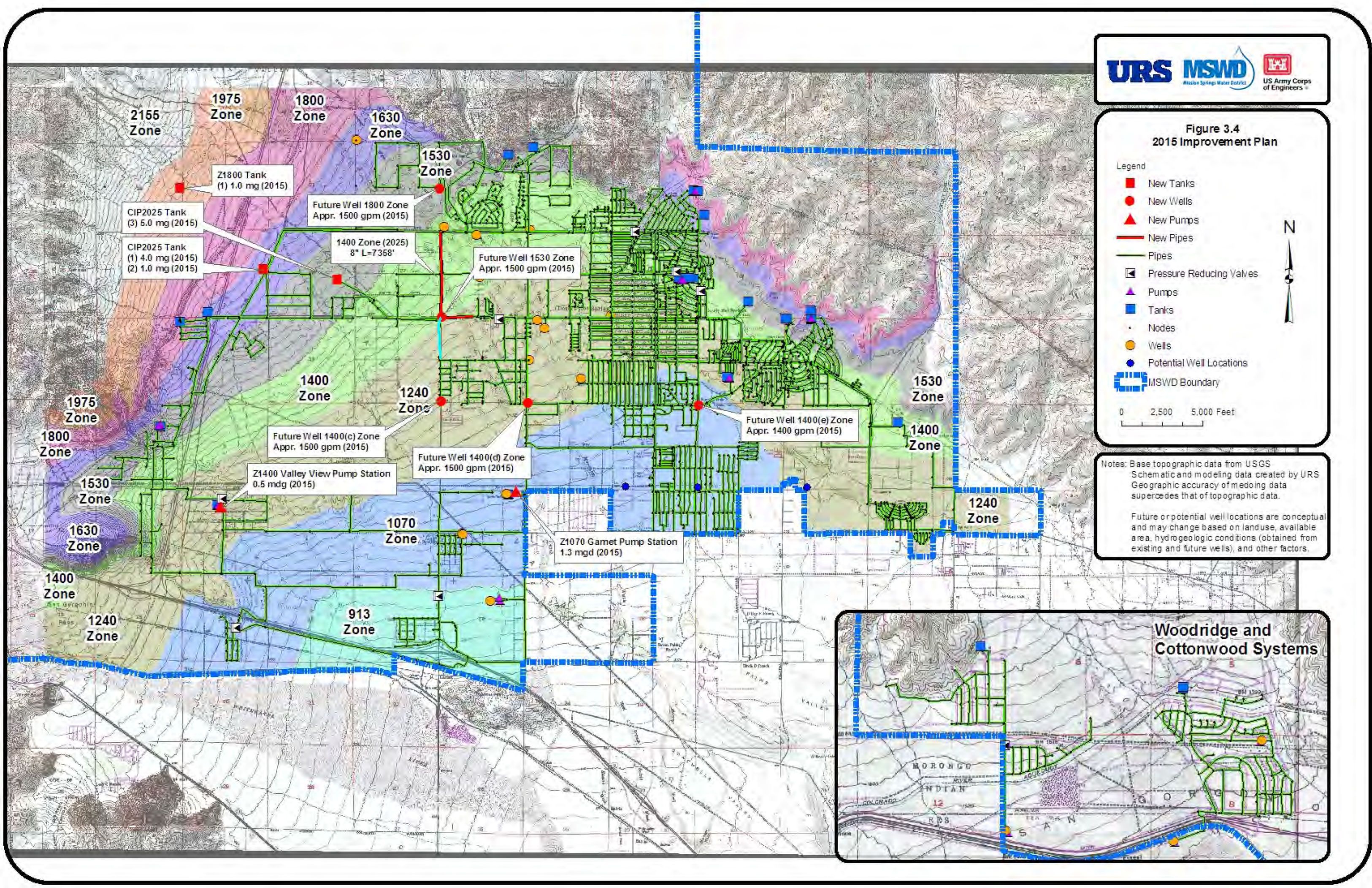
- Legend
- New Tanks
  - New Wells
  - ▲ New Pumps
  - New Pipes
  - Pipes
  - ◻ Pressure Reducing Valves
  - ▲ Pumps
  - Tanks
  - Nodes
  - Wells
  - Potential Well Locations
  - MSWD Boundary

0 2,500 5,000 Feet

Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

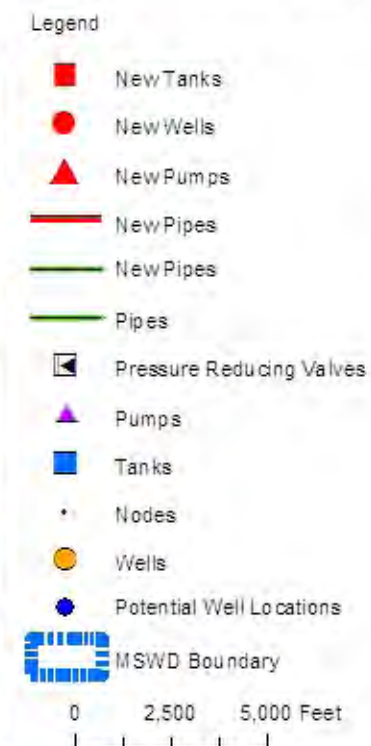
Future or potential well locations are conceptual  
and may change based on landuse, available  
area, hydrogeologic conditions (obtained from  
existing and future wells), and other factors.

### Woodridge and Cottonwood Systems





**Figure 3.5**  
**2020 Improvement Plan**



Notes: Base topographic data from USGS  
 Schematic and modeling data created by URS  
 Geographic accuracy of modeling data  
 supersedes that of topographic data.

Future or potential well locations are conceptual  
 and may change based on land use, available  
 area, hydrogeologic conditions (obtained from  
 existing and future wells), and other factors.

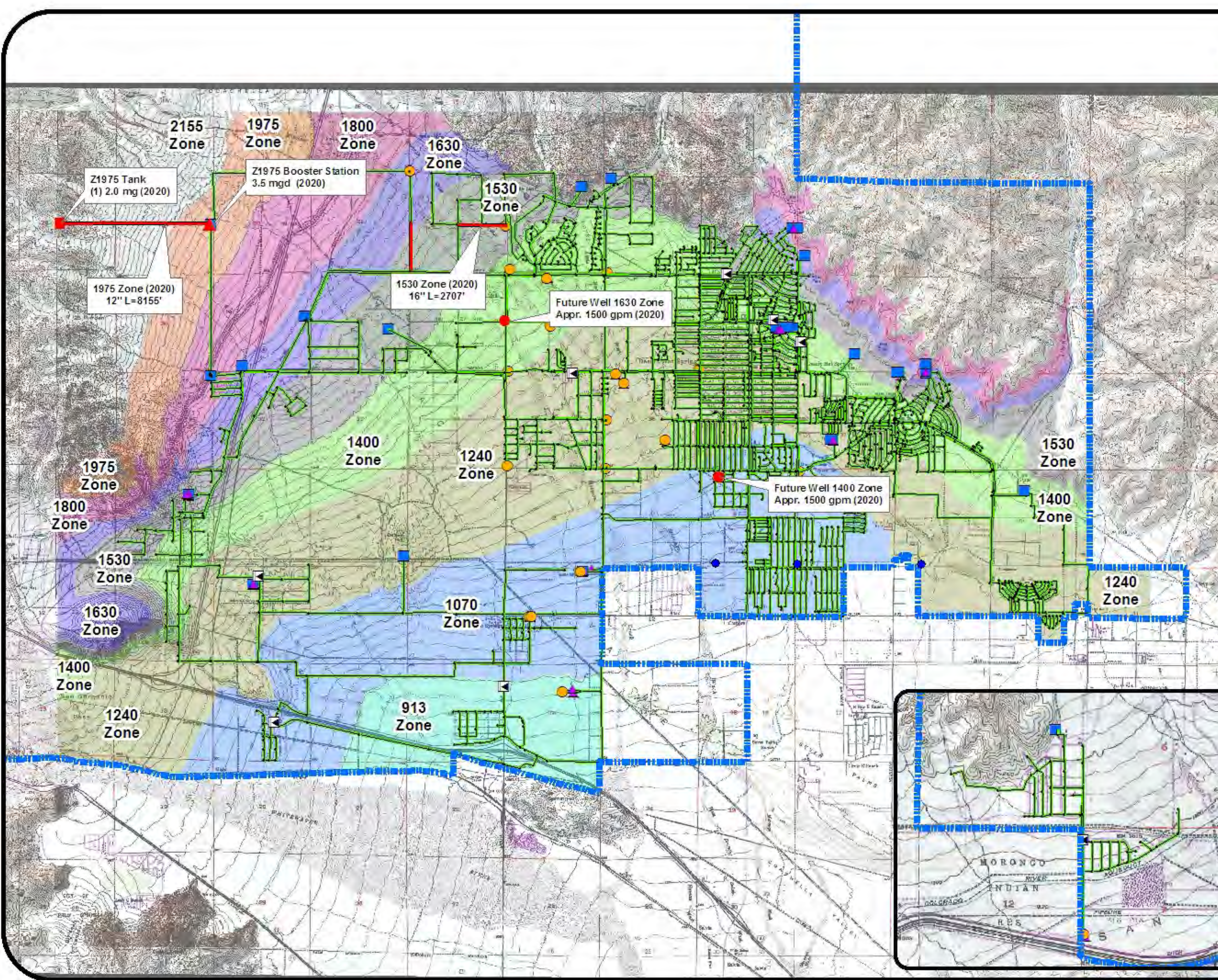
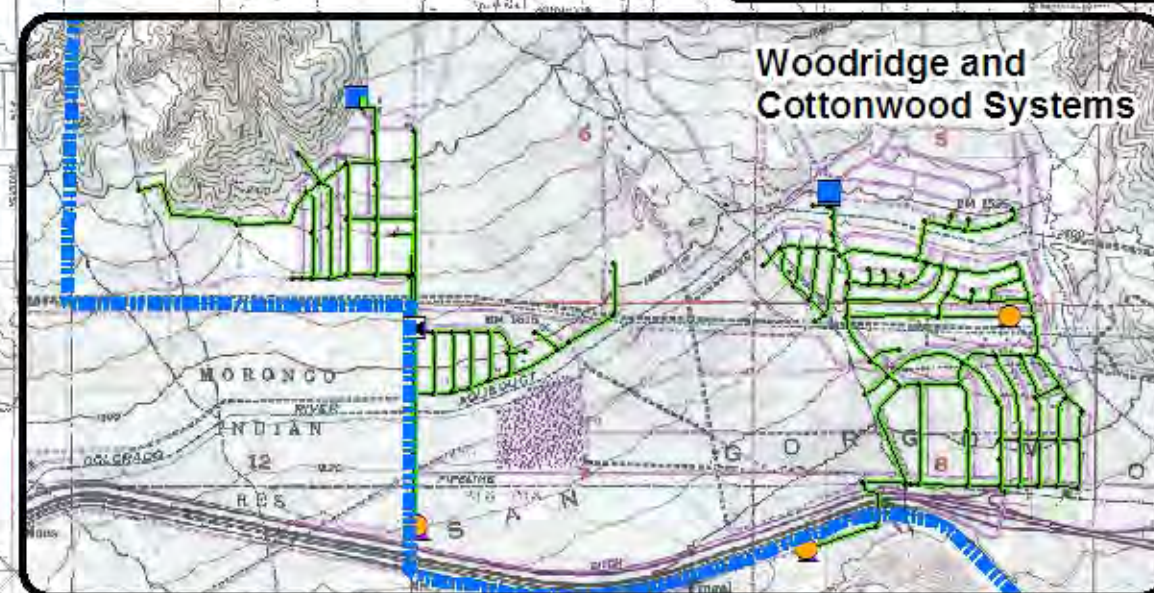




Figure 3.7  
2025 Improvement Plan

Legend

- New Wells
- ▲ New Pumps
- New Pipes
- Pipes
- ◻ Pressure Reducing Valves
- ▲ Pumps
- Tanks
- Nodes
- Wells
- Potential Well Locations
- MSWD Boundary

0 2,500 5,000 Feet

N

Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

Future or potential well locations are conceptual  
and may change based on land use, available  
area, hydrogeologic conditions (obtained from  
existing and future wells), and other factors.

Woodridge and  
Cottonwood Systems

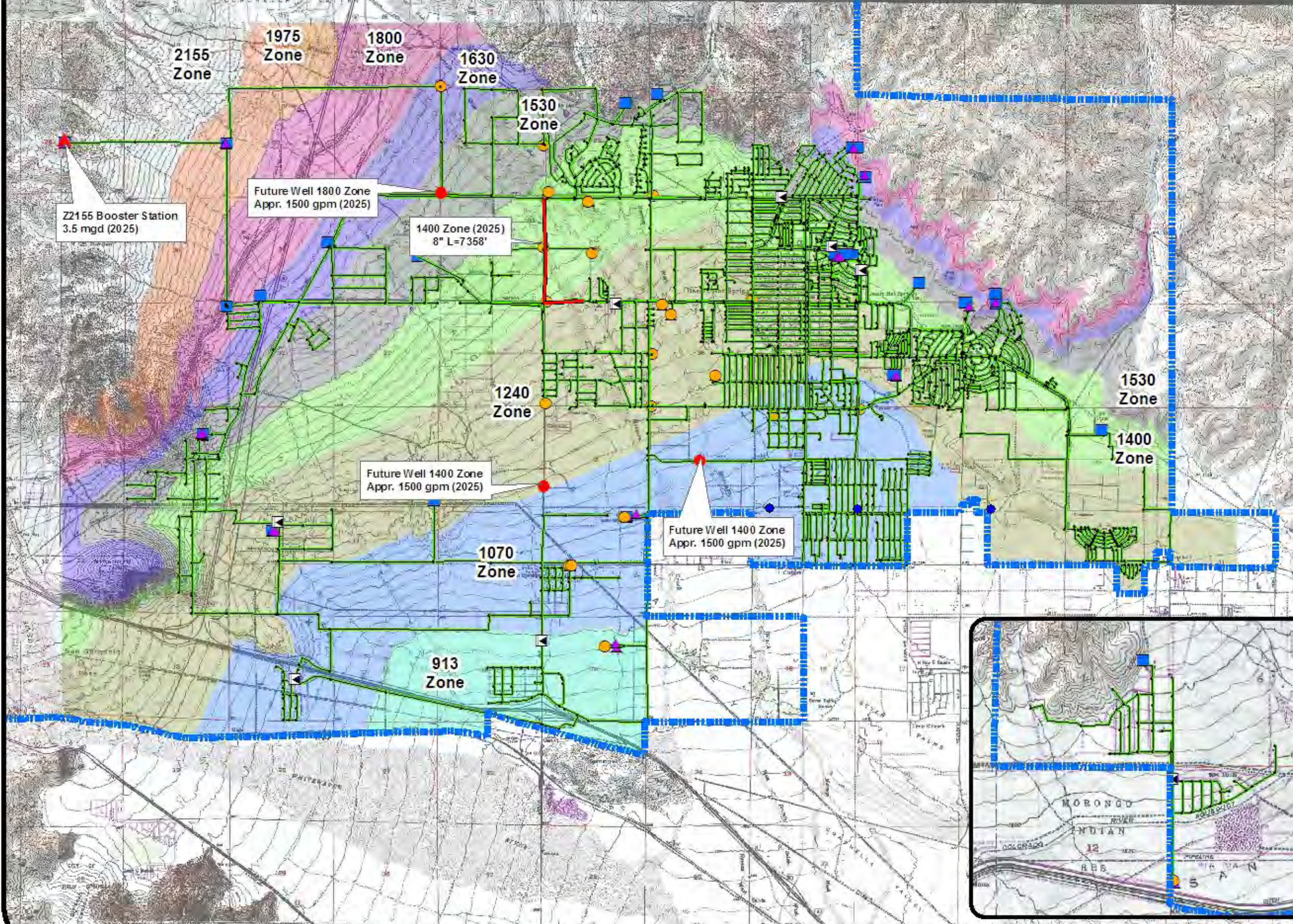
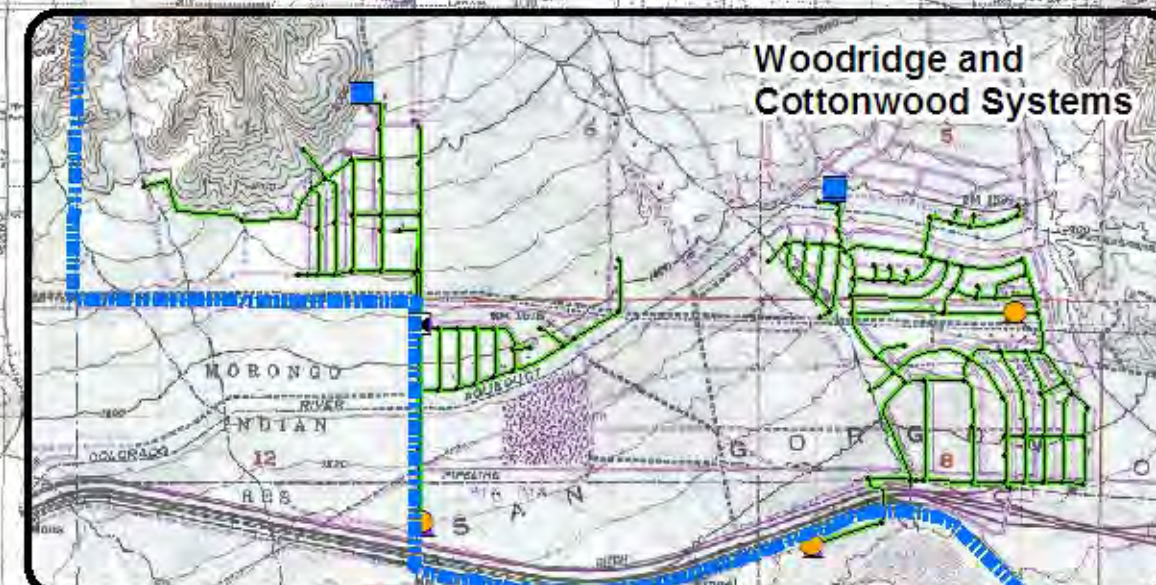




Figure 3.8  
Pressure Zone Boundaries  
Years 2005 - 2025

Legend

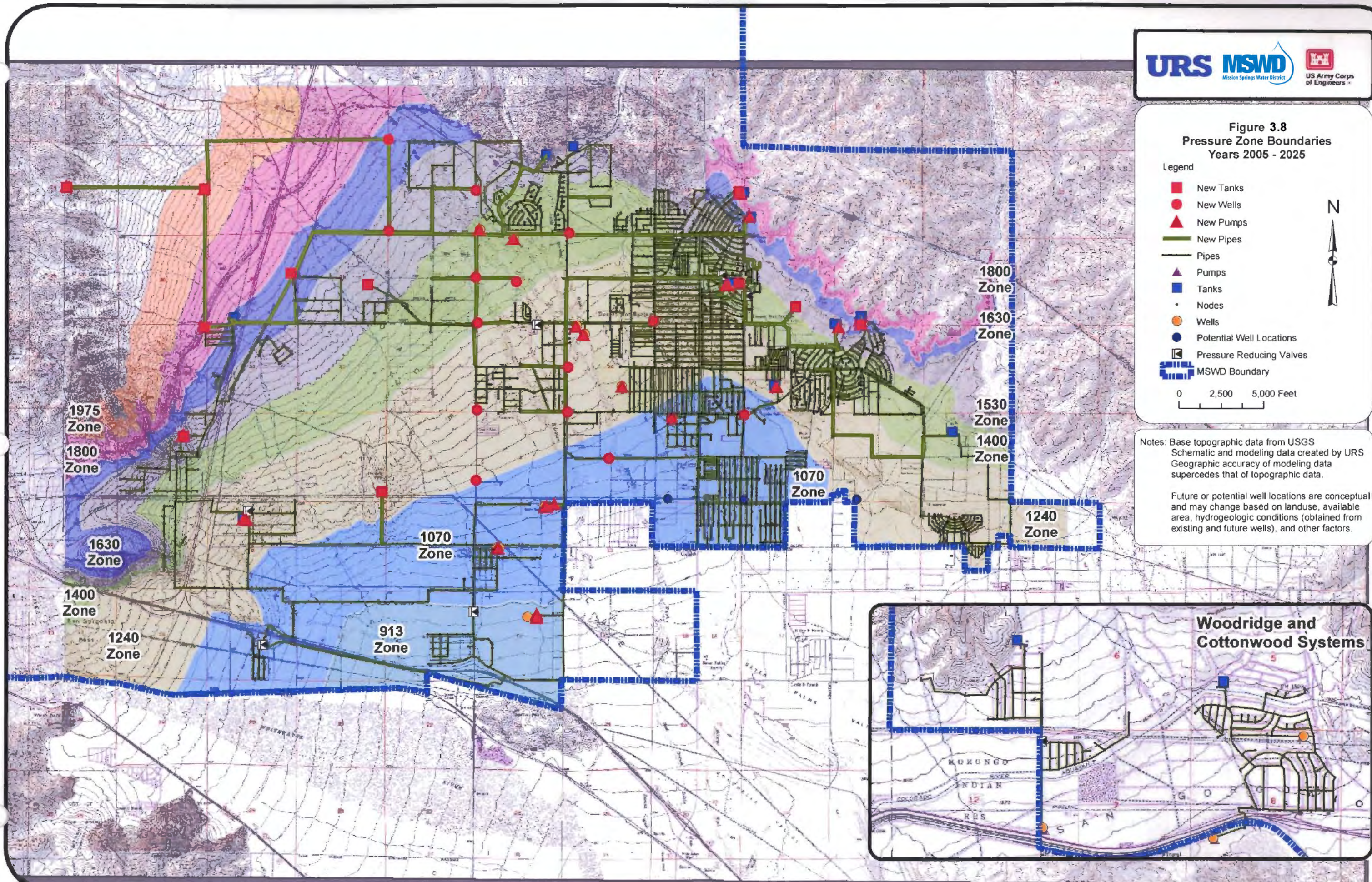
- New Tanks
- New Wells
- ▲ New Pumps
- New Pipes
- Pipes
- ▲ Pumps
- Tanks
- Nodes
- Wells
- Potential Well Locations
- Pressure Reducing Valves
- MSWD Boundary

0 2,500 5,000 Feet

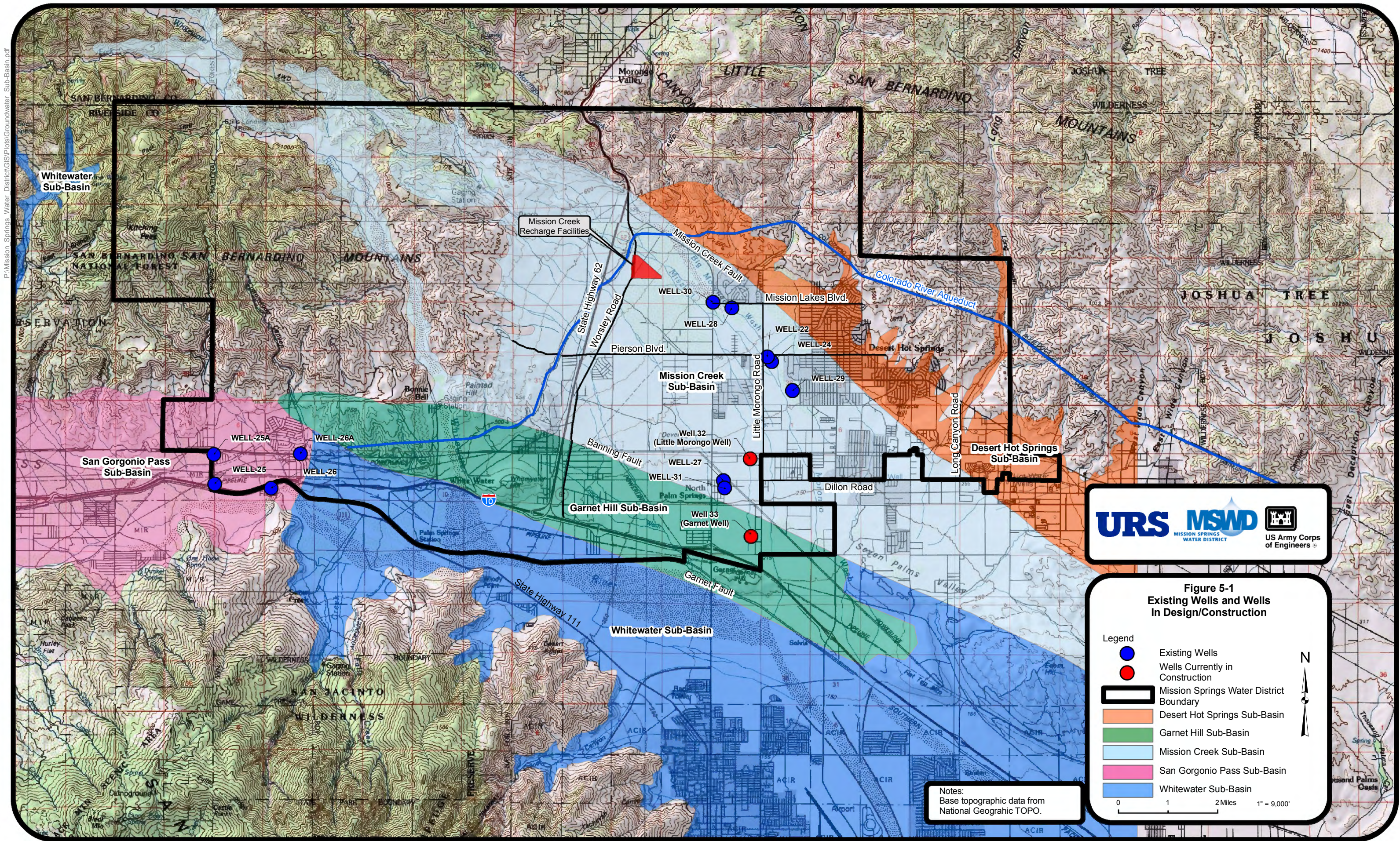


Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

Future or potential well locations are conceptual  
and may change based on landuse, available  
area, hydrogeologic conditions (obtained from  
existing and future wells), and other factors.












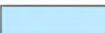




MISSION SPRINGS  
WATER DISTRICT


US Army Corps  
of Engineers

**Figure 5-1**  
**Existing Wells and Wells**  
**In Design/Construction**

**Legend**

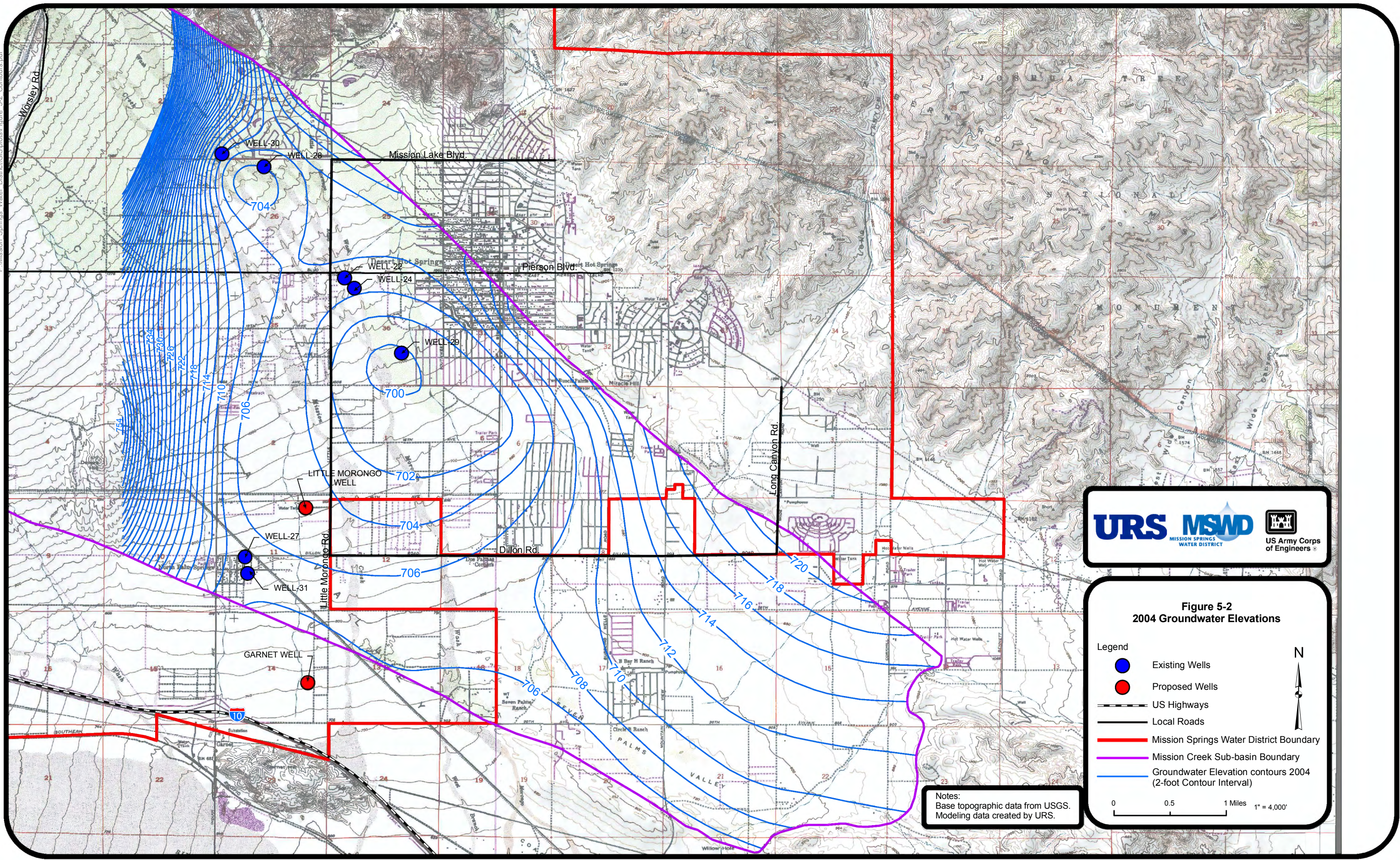
-  Existing Wells
-  Wells Currently in Construction
-  Mission Springs Water District Boundary
-  Desert Hot Springs Sub-Basin
-  Garnet Hill Sub-Basin
-  Mission Creek Sub-Basin
-  San Gorgonio Pass Sub-Basin
-  Whitewater Sub-Basin

0 1 2 Miles 1" = 9,000'



Notes:  
Base topographic data from  
National Geographic TOPO.














**Figure 5-2**  
**2004 Groundwater Elevations**

**Legend**

-  Existing Wells
-  Proposed Wells
-  US Highways
-  Local Roads
-  Mission Springs Water District Boundary
-  Mission Creek Sub-basin Boundary
-  Groundwater Elevation contours 2004 (2-foot Contour Interval)

**Notes:**  
Base topographic data from USGS.  
Modeling data created by URS.

0 0.5 1 Miles 1" = 4,000'

N

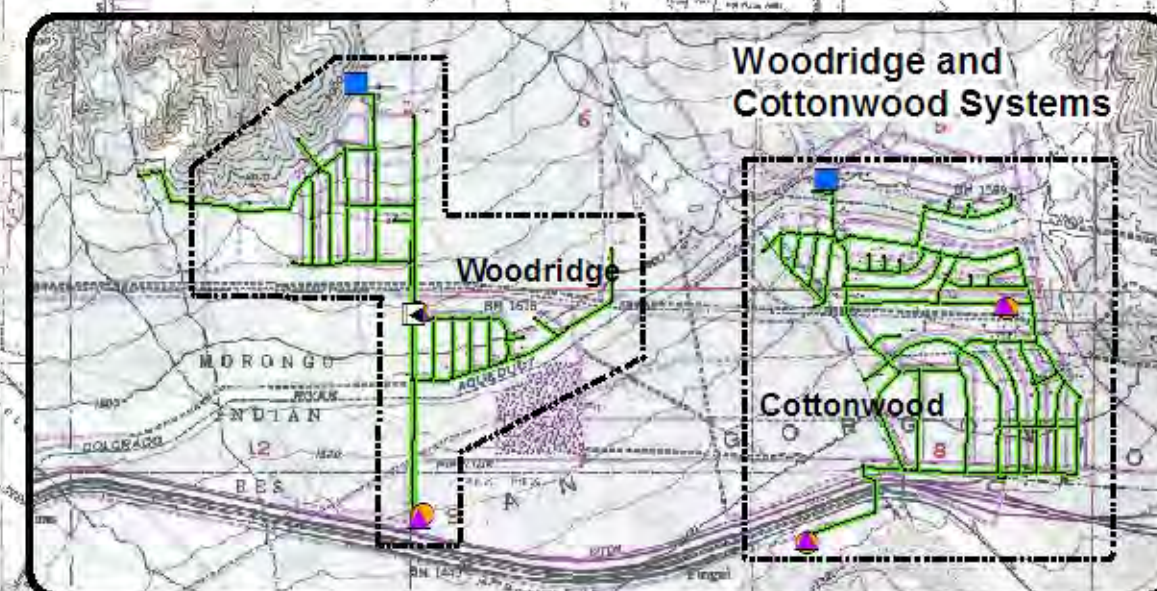


Figure 5-3  
Designated Water Supply  
Regions (2005)

- Legend
- Zone Boundaries
  - Nodes
  - Pressure Reducing Valves
  - Pumps
  - Wells
  - Tanks
  - Pipes
  - Mission Springs Water District
  - Well Supply Regions
  - Region I
  - Region II
  - Region III
  - Region IV
  - Region V

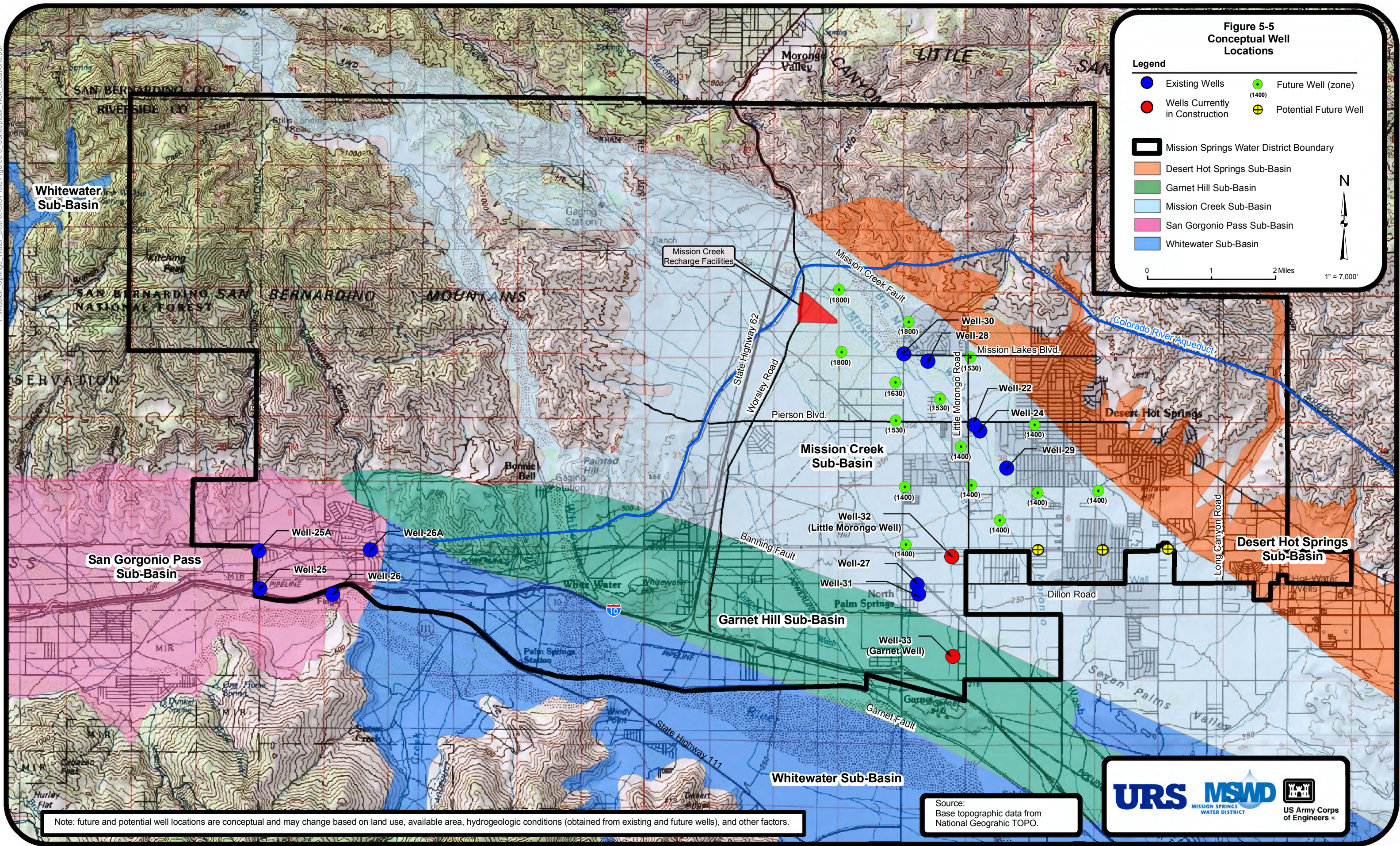
0 2,500 5,000 Feet

Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.










P:\Mission\_Springs\_Water\_District\GIS\Plots\Figure5-5\_Conceptual\_Well\_Locations.pdf





# Legend

-  Pipes
-  Pumps
-  Tanks
-  Wells
-  MSWD Boundary

Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

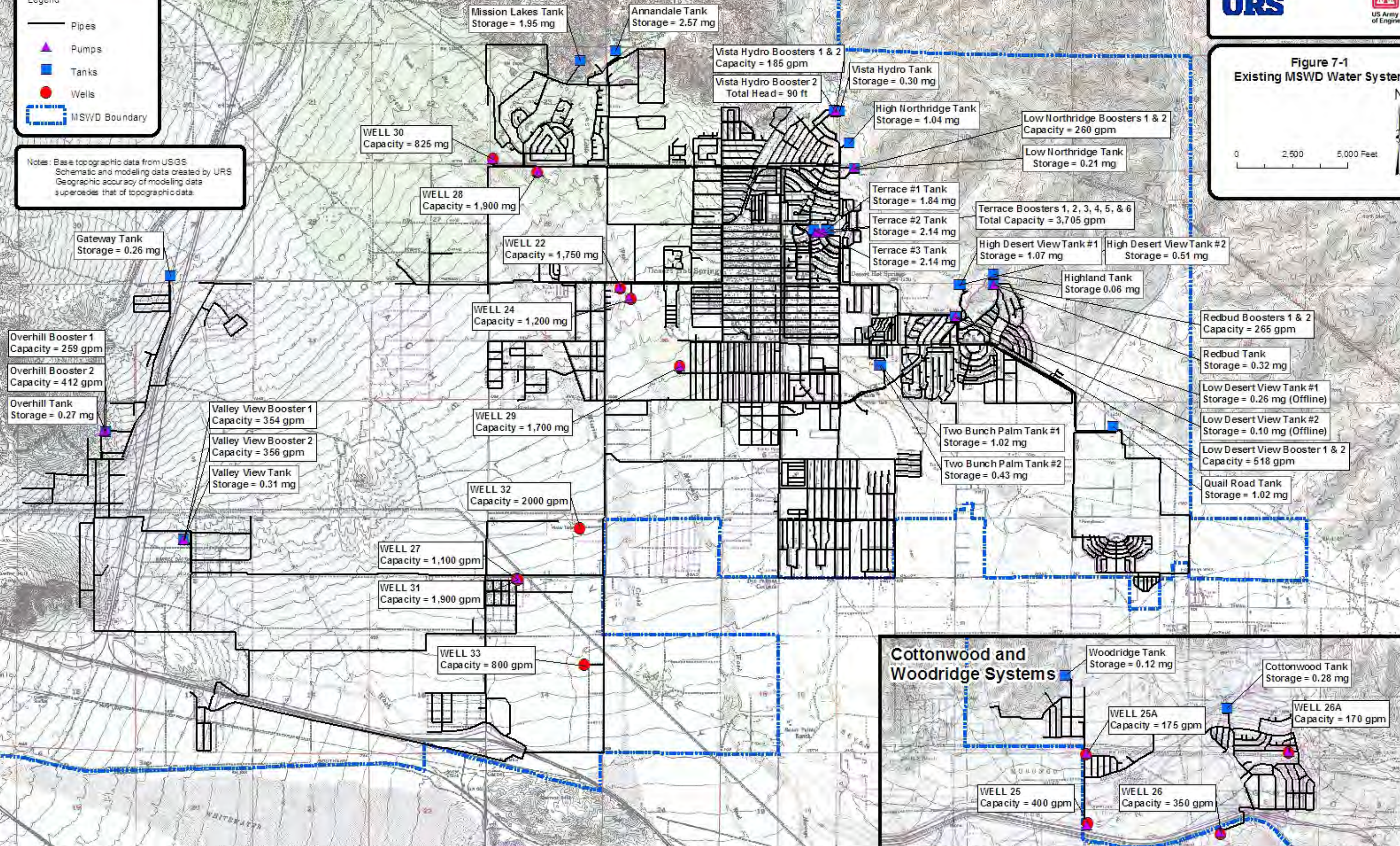
URS



Figure 7-1  
Existing MSWD Water System

N

0 2,500 5,000 Feet





MSWD DESERT HOT SPRINGS SYSTEM

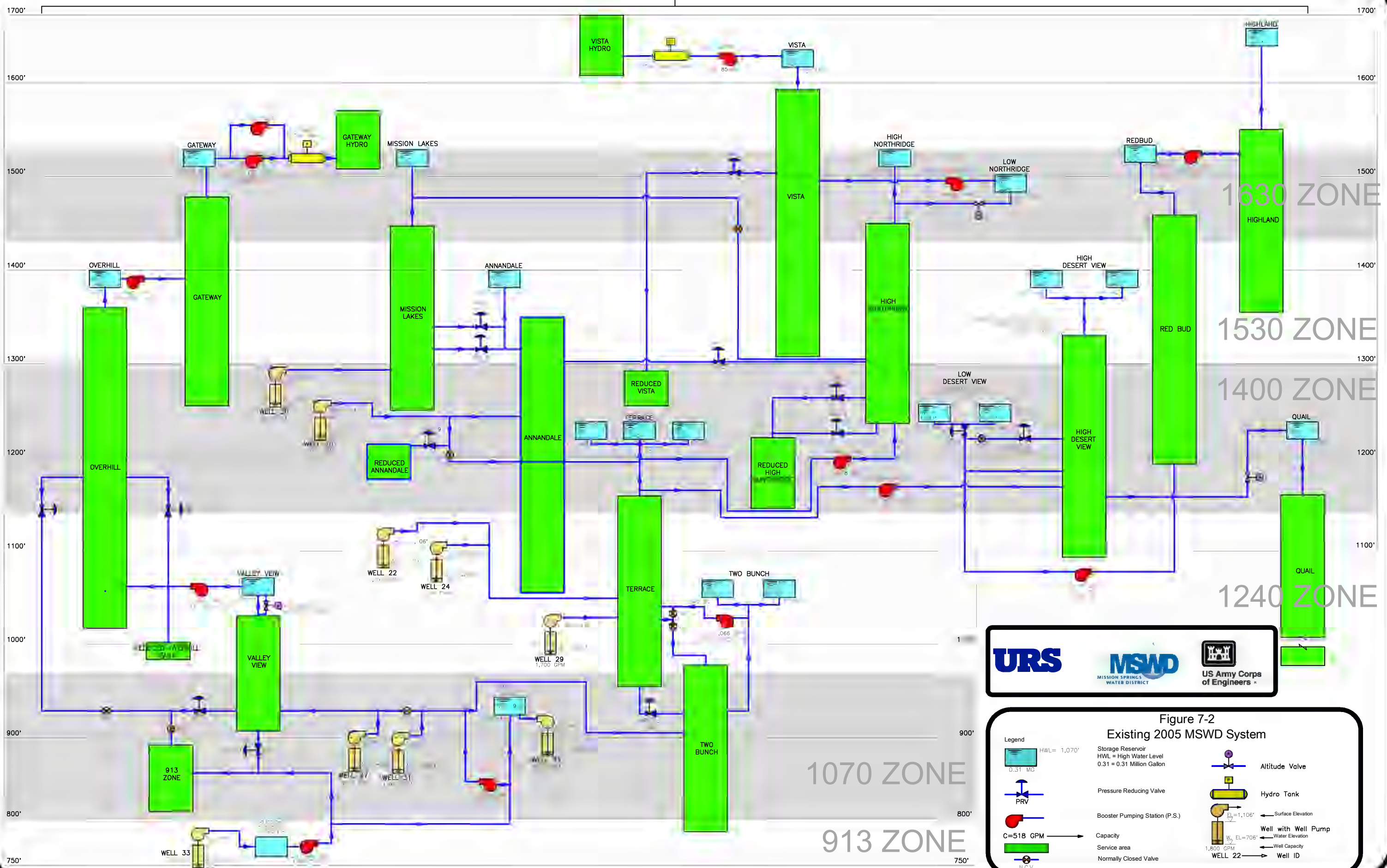


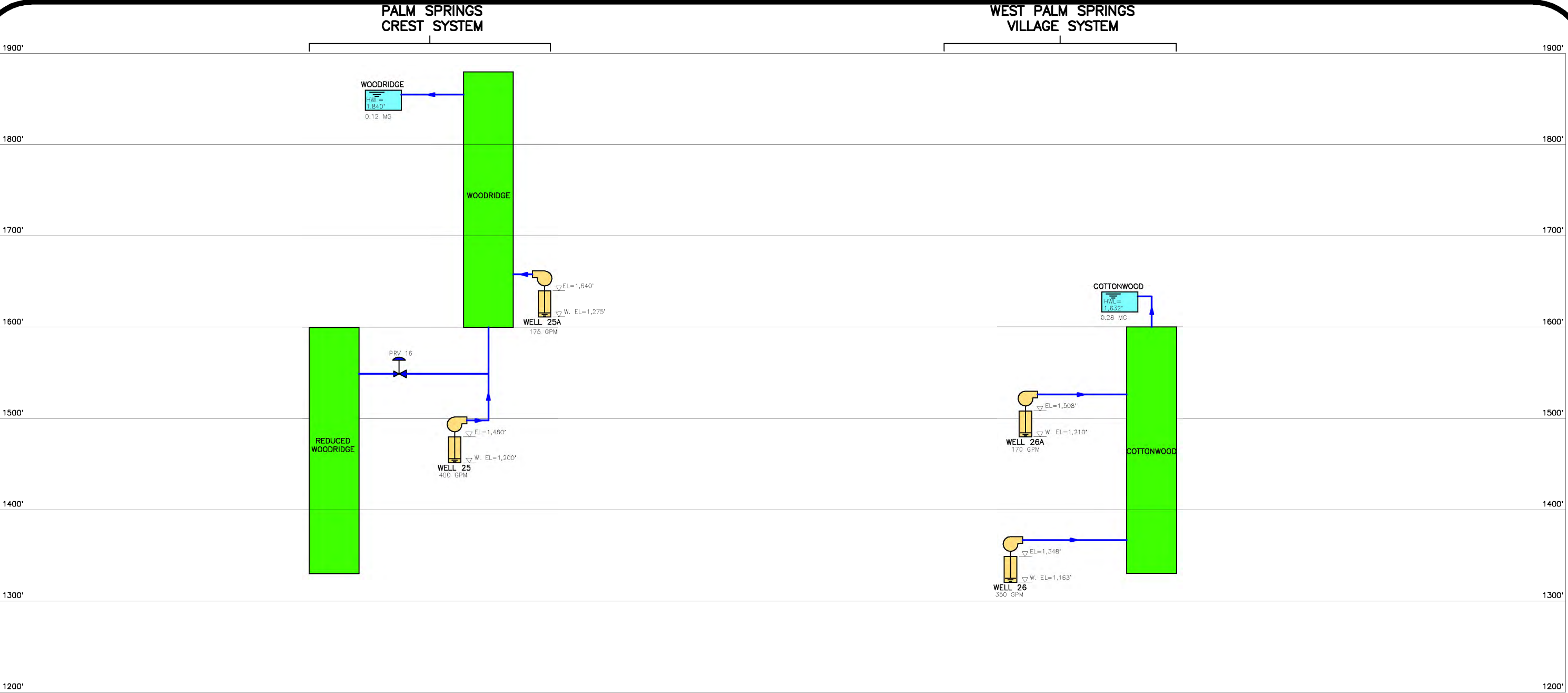
Figure 7-2  
Existing 2005 MSWD System

**Legend**

- Storage Reservoir  
HWL = 1,070'  
0.31 MG
- Pressure Reducing Valve  
PRV
- Booster Pumping Station (P.S.)
- Capacity  
C=518 GPM
- Service area
- Normally Closed Valve
- Altitude Valve
- Hydro Tank
- Surface Elevation  
EL=1,106'
- Well with Well Pump  
Water Elevation  
W<sub>2</sub> EL=706'  
Well Capacity  
WELL 22 → Well ID



T:\PROJECTS\20071468\_Mission\_Springs\_Sub\_Station\03\_CAD\_REPORT\FIGURES\FIGURE 7-3.DWG, 10/25/2016 7:40:08 AM, HOLZER, KETH W.



**URS**

**MSWD**  
MISSION SPRINGS  
WATER DISTRICT



**US Army Corps  
of Engineers**

**Figure 7-3**  
**Existing 2005 MSWD Palm Spring Crest/  
West Palm Springs Systems**

**Legend**  
Storage Reservoir  
HWL = High Water Level  
0.31 = 0.31 Million Gallon

Pressure Reducing Valve

Booster Pumping Station (P.S.)

Capacity

Service area

Normally Closed Valve

Altitude Valve

Hydro Tank

Well with Well Pump

Surface Elevation

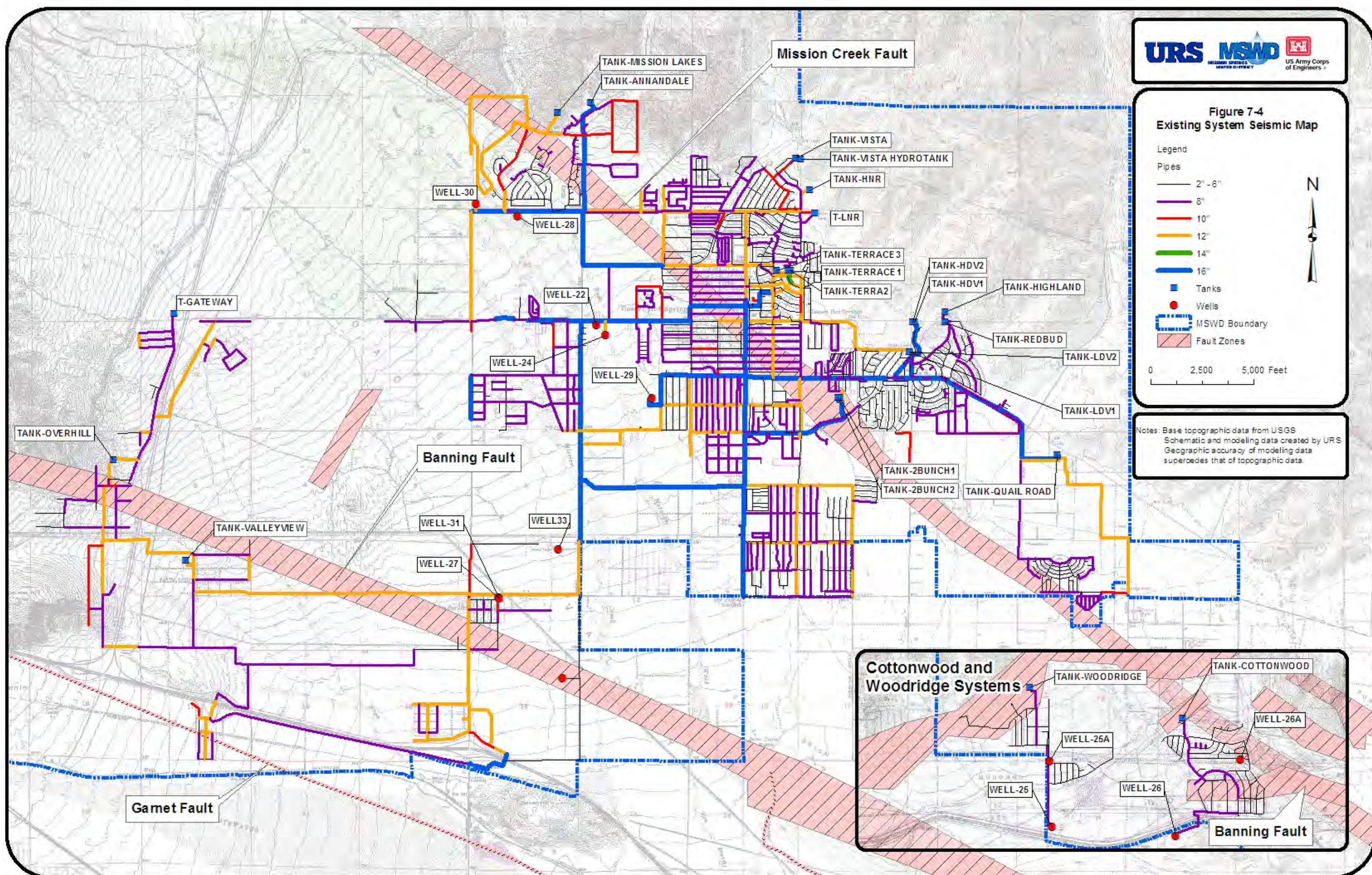
Water Elevation

Well Capacity

WELL 22 → Well ID



**Figure 7-4**  
**Existing System Seismic Map**





**Figure 8-2**  
**Fire Flow Test Locations**

**Legend**

- Fire Test Locations
- Nodes
- ▢ Pressure Reducing Valves
- ▲ Pumps
- Wells
- Tanks
- Pipes
- ▭ MSWD Boundary

0 2,500 5,000 Feet



Notes:  
Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

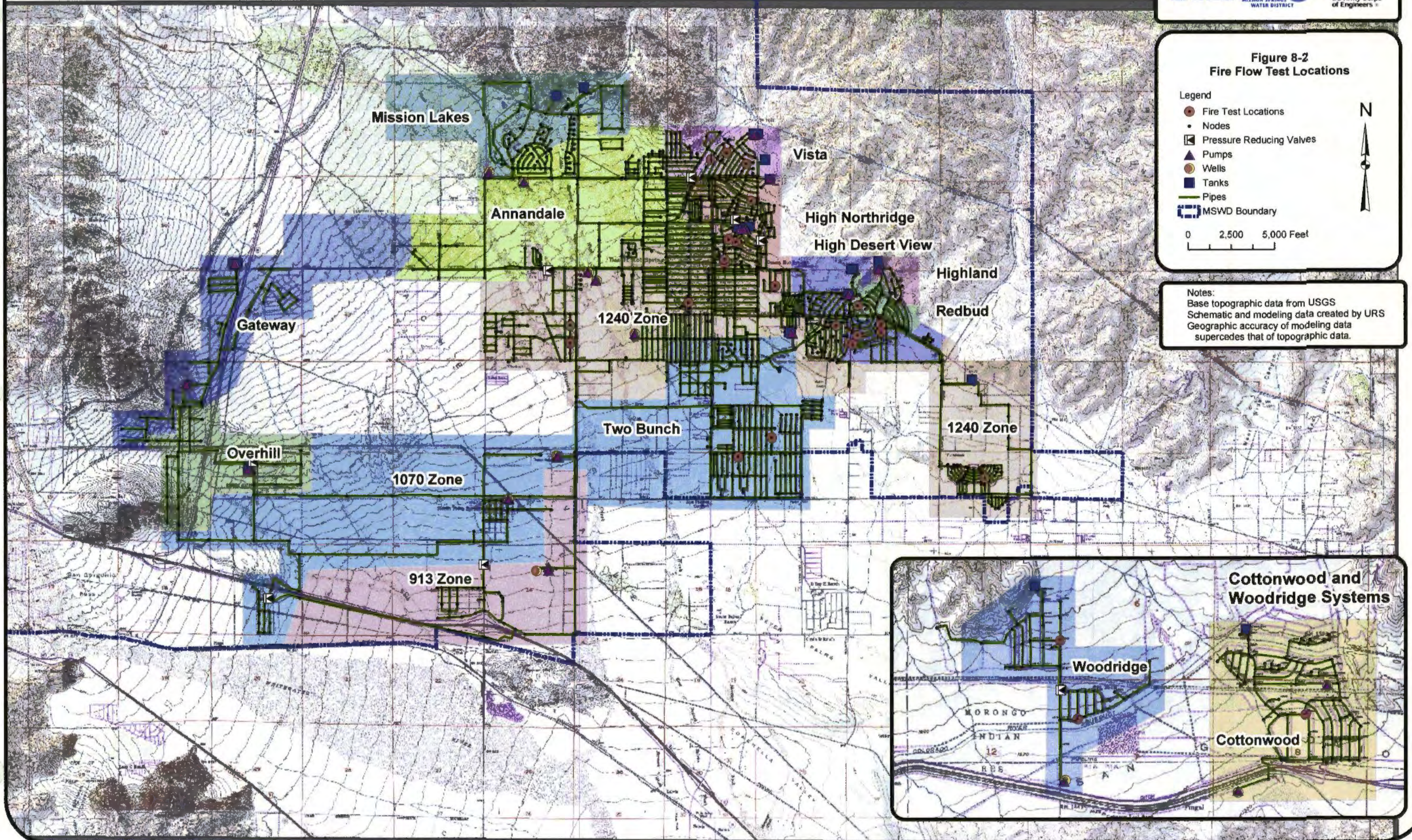




Figure 8-3  
Existing ADD Scenario  
Model Results

Legend

- Pipes
- Pressure less than 120 PSI
- Pressure greater than 120 PSI
- Pressure Reducing Valves
- Pumps
- Wells
- Tanks
- MSWD Boundary

0 2,500 5,000 Feet



Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

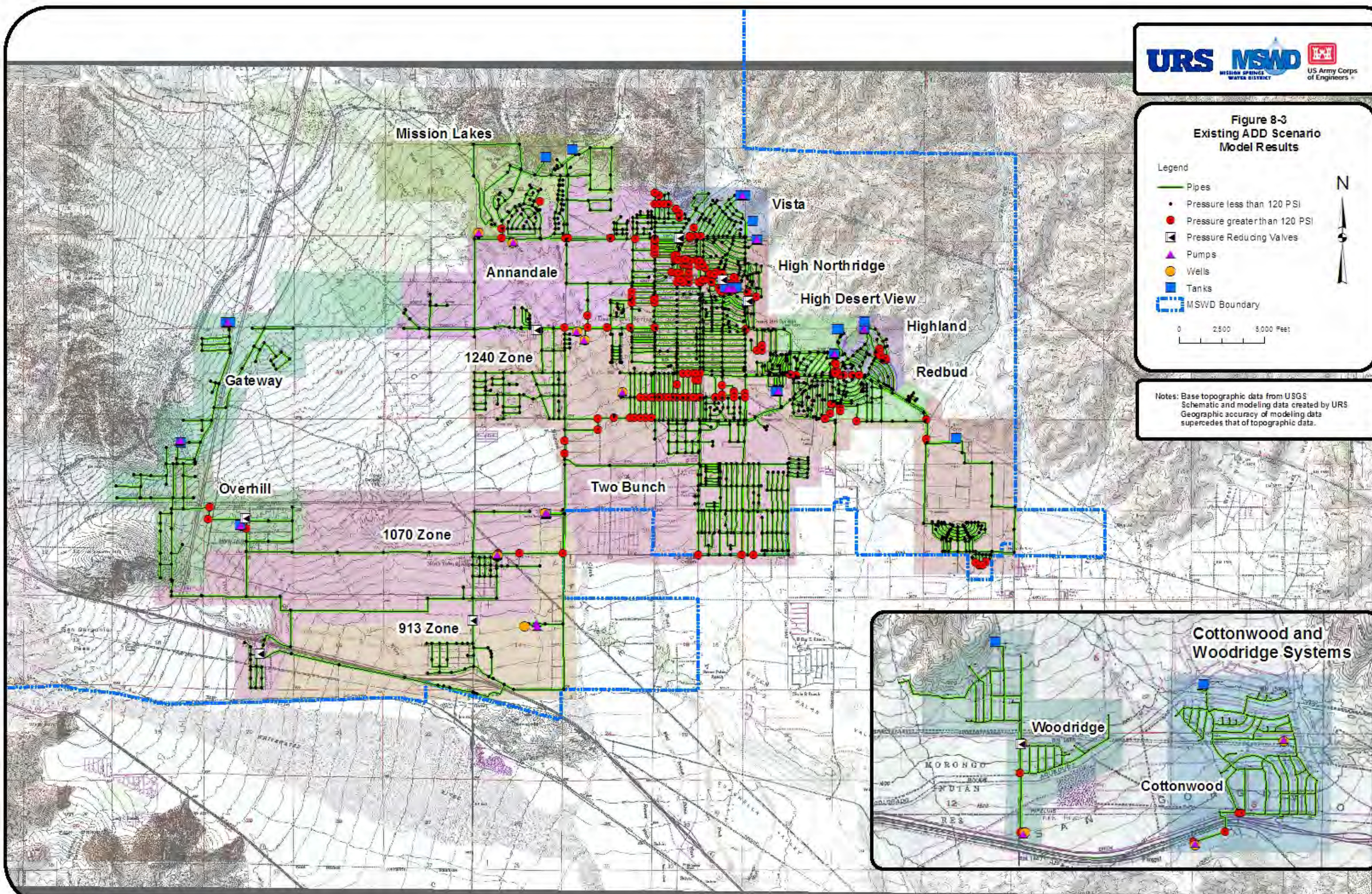
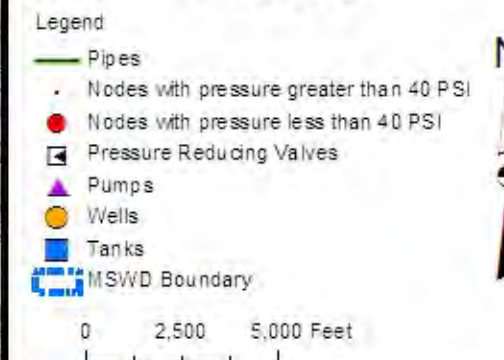
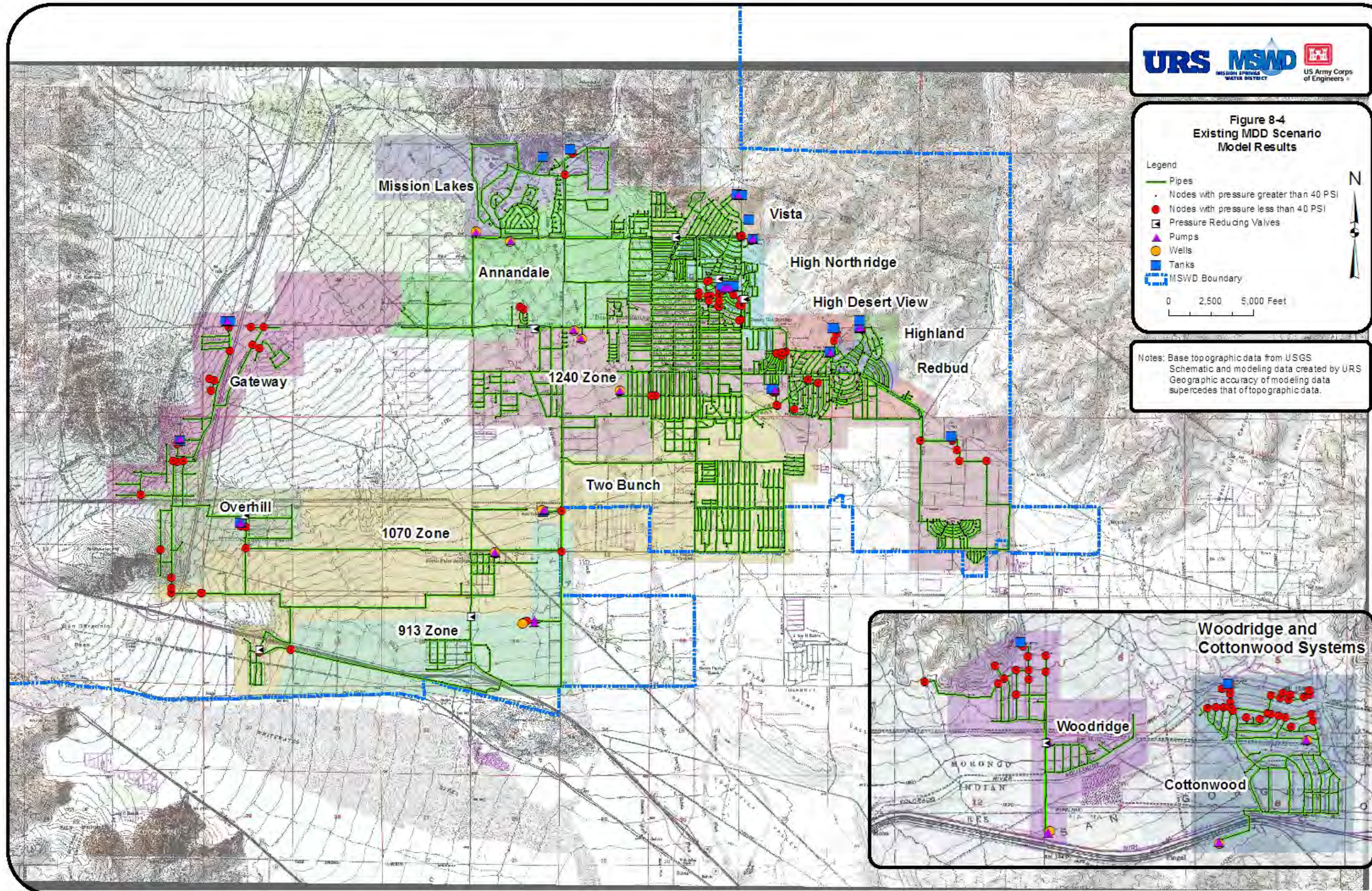




Figure 8-4  
Existing MDD Scenario  
Model Results

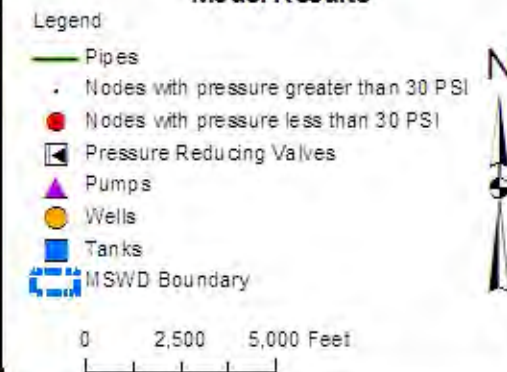


Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.





**Figure 8-5**  
**Existing MHD Scenario**  
**Model Results**



Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

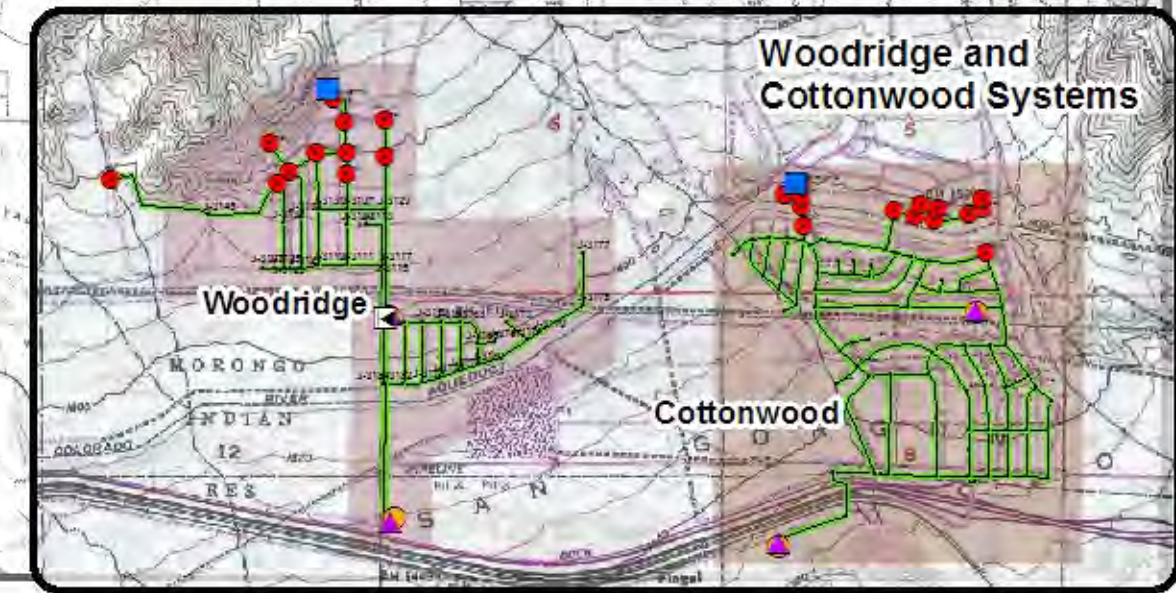
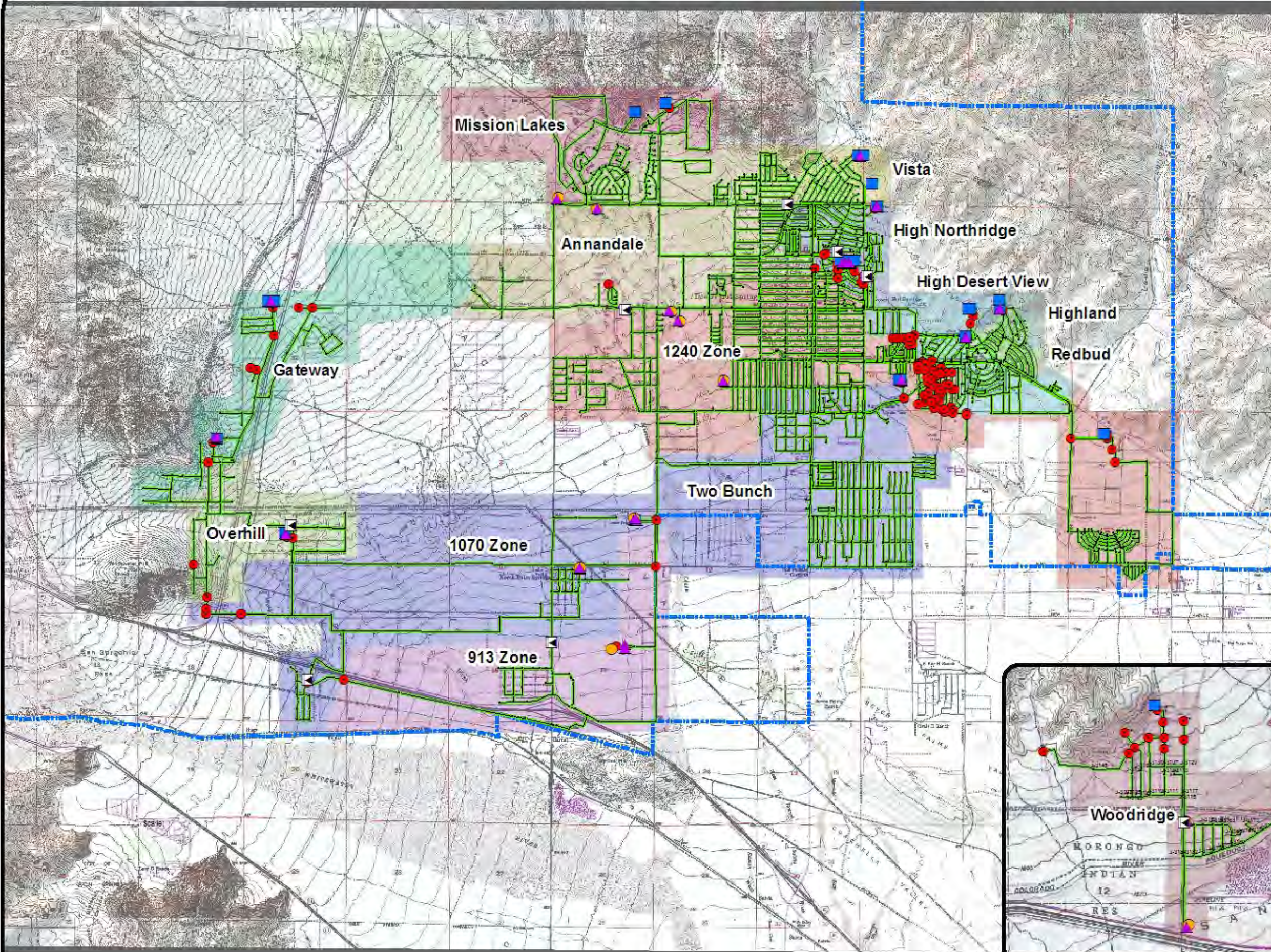
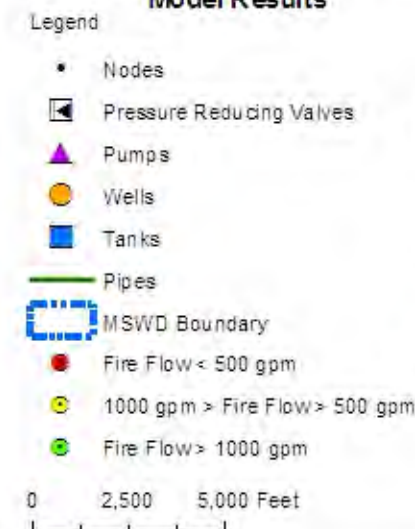




Figure 8-6  
Fire Flow and MDD Scenario  
Model Results



Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

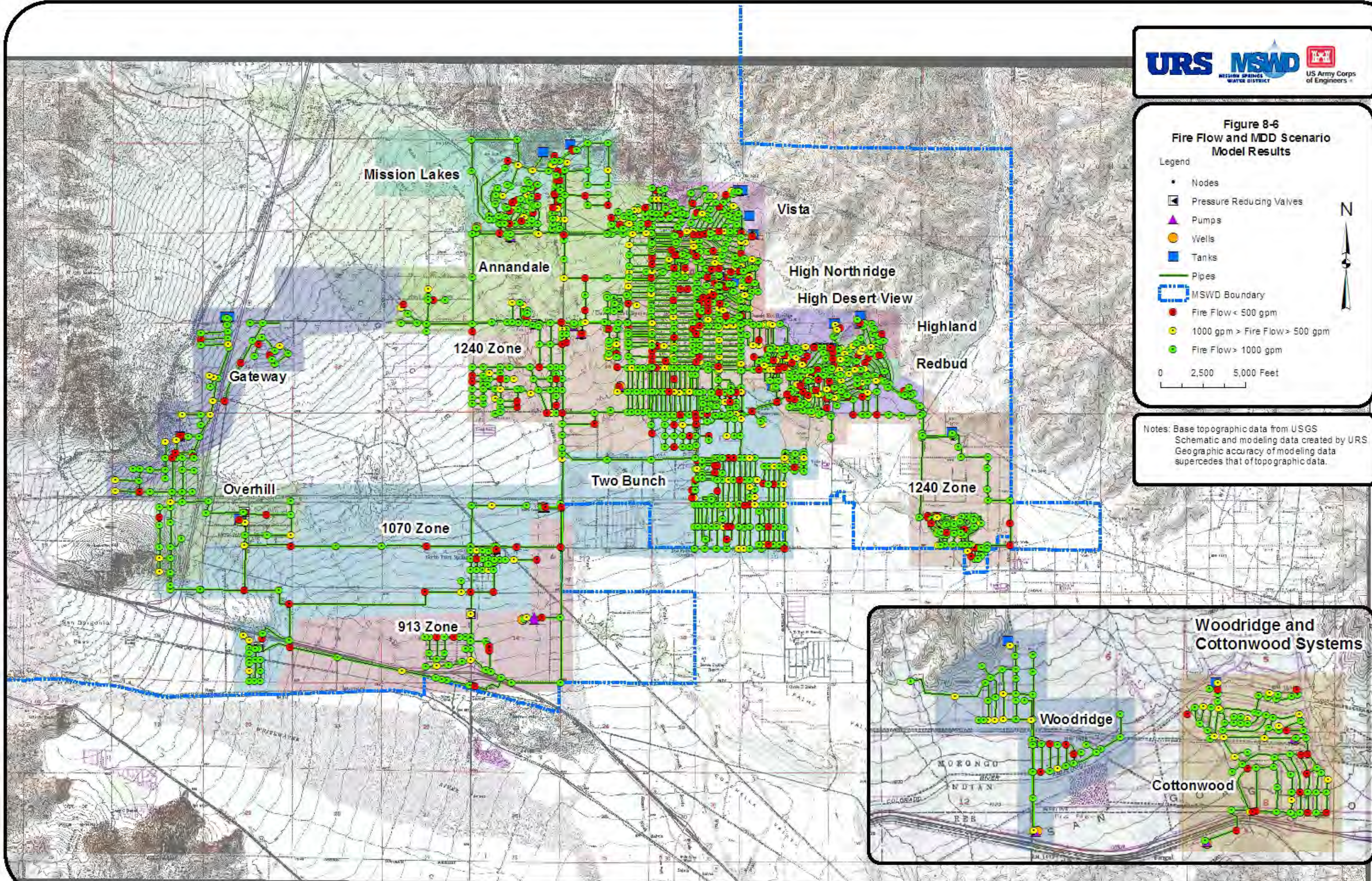




Figure 9-1  
Pressure Zone Boundaries  
Years 2005 - 2025

Legend

- New Tanks
- New Wells
- ▲ New Pumps
- New Pipes
- Pipes
- ▲ Pumps
- Tanks
- Nodes
- Wells
- Potential Well Locations
- ◻ Pressure Reducing Valves
- MSWD Boundary

0 2,500 5,000 Feet



Notes: Base topographic data from USGS  
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Geographic accuracy of modeling data  
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area, hydrogeologic conditions (obtained from  
existing and future wells), and other factors.

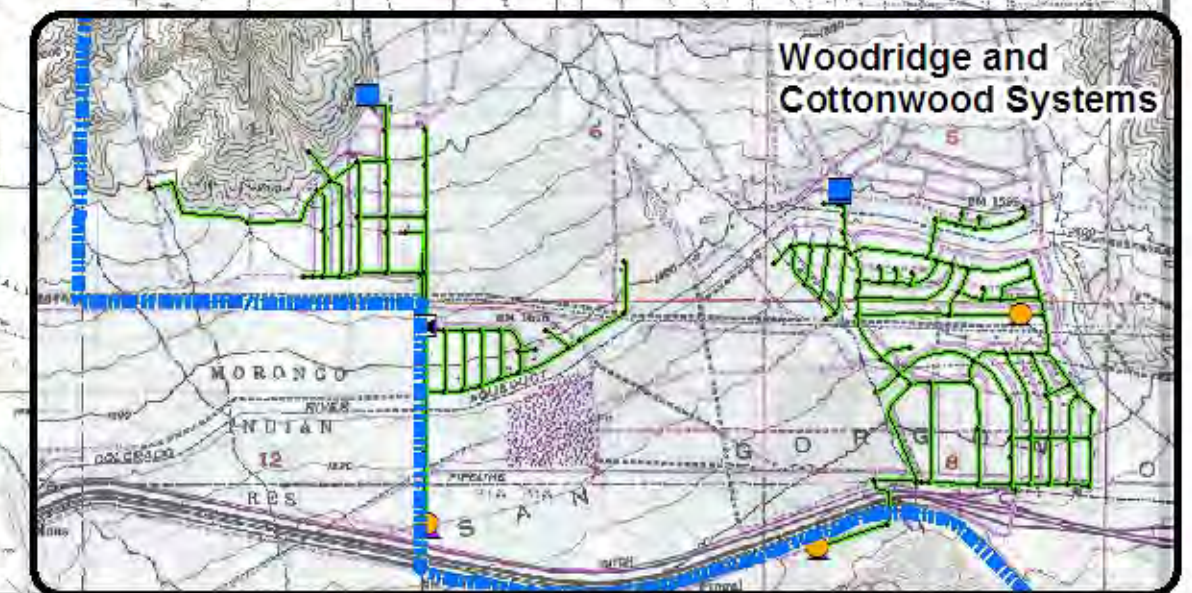
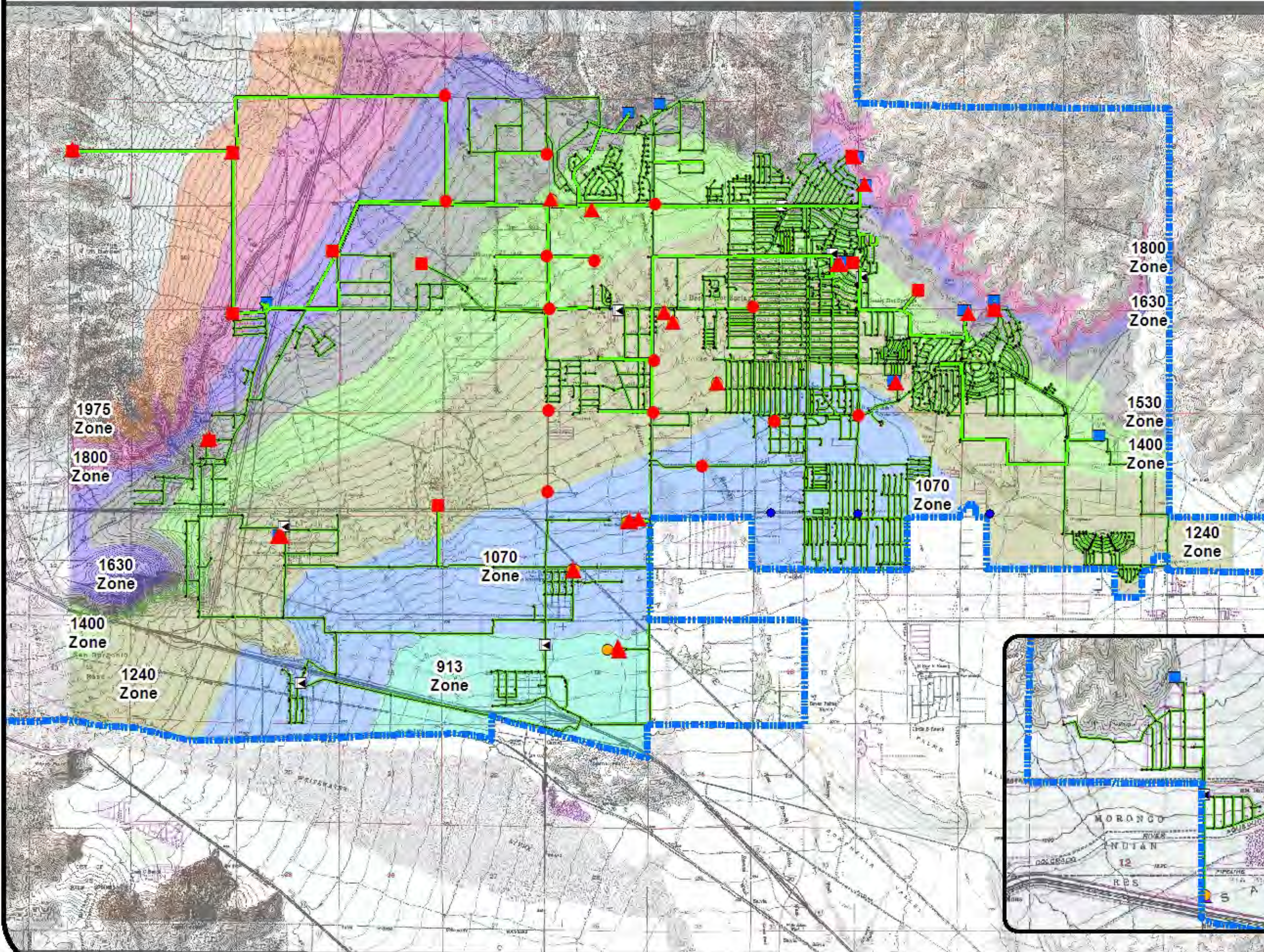




Figure 9-2  
Future Proposed System  
Years 2005 - 2025

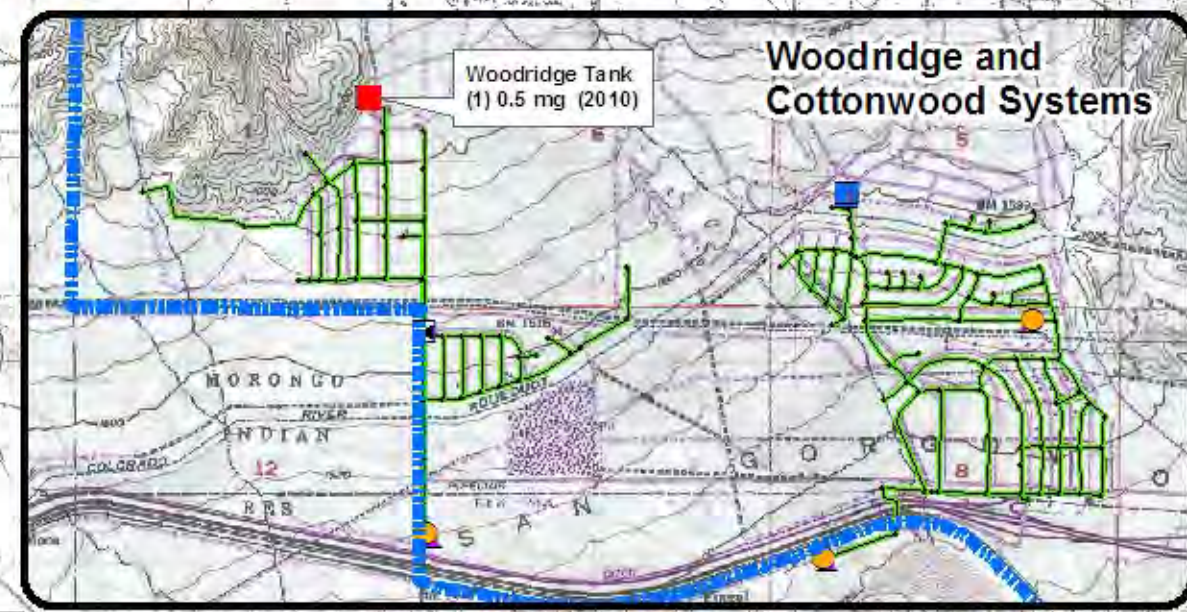
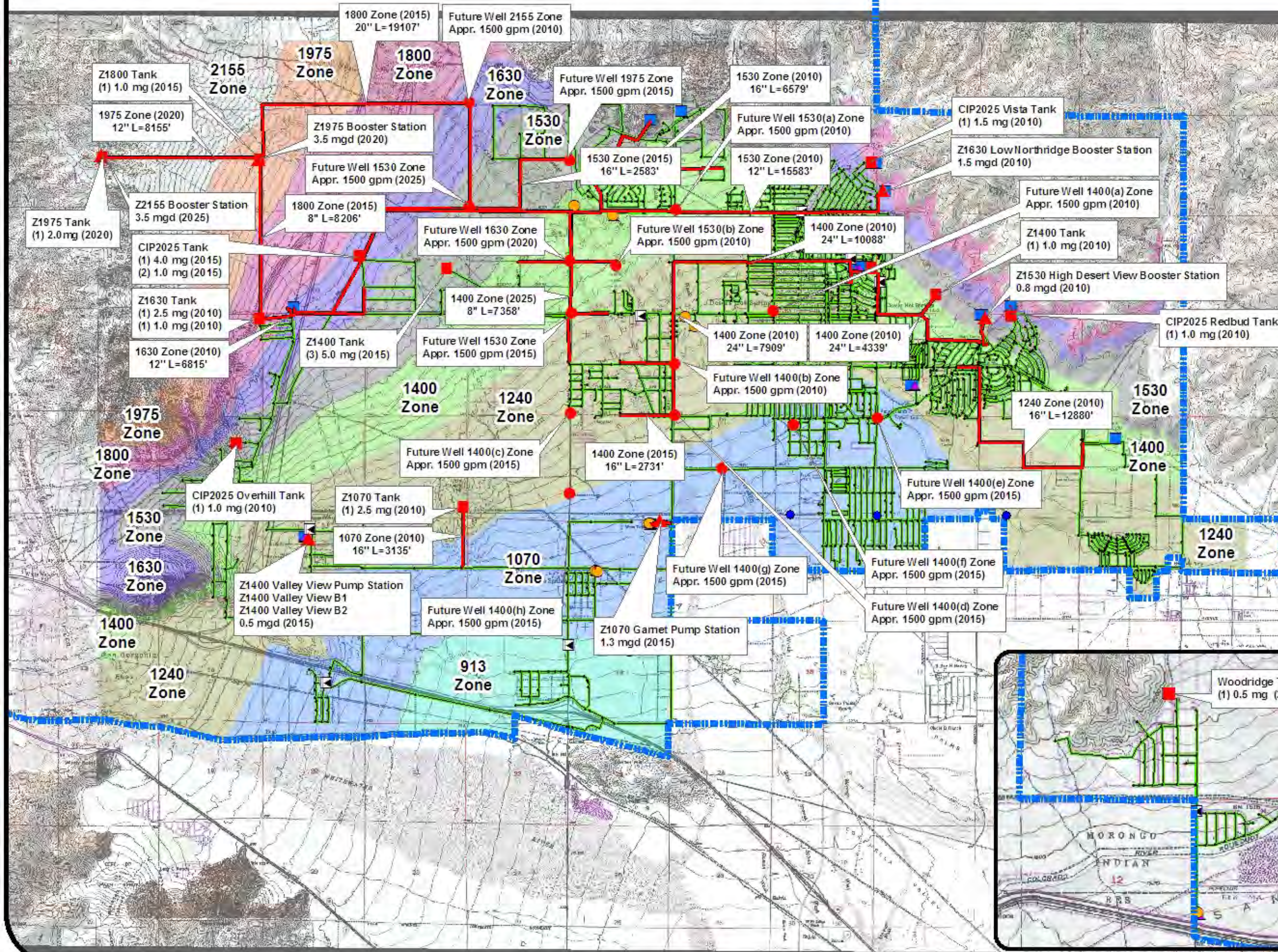
Legend

- New Tanks
- New Wells
- ▲ New Pumps
- New Pipes
- Pipes
- Pressure Reducing Valves
- ▲ Pumps
- Tanks
- Nodes
- Wells
- Potential Well Locations
- MSWD Boundary

0 2,500 5,000 Feet

Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
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existing and future wells), and other factors.





T:\PROJECTS\28674166\_Mission Springs\Sub-Div\03.02 CAD REPORT\FIGURES\FIGURE 9-3.DWG, 10/14/2009 4:37:56 PM, HOLZER, KEITH W.

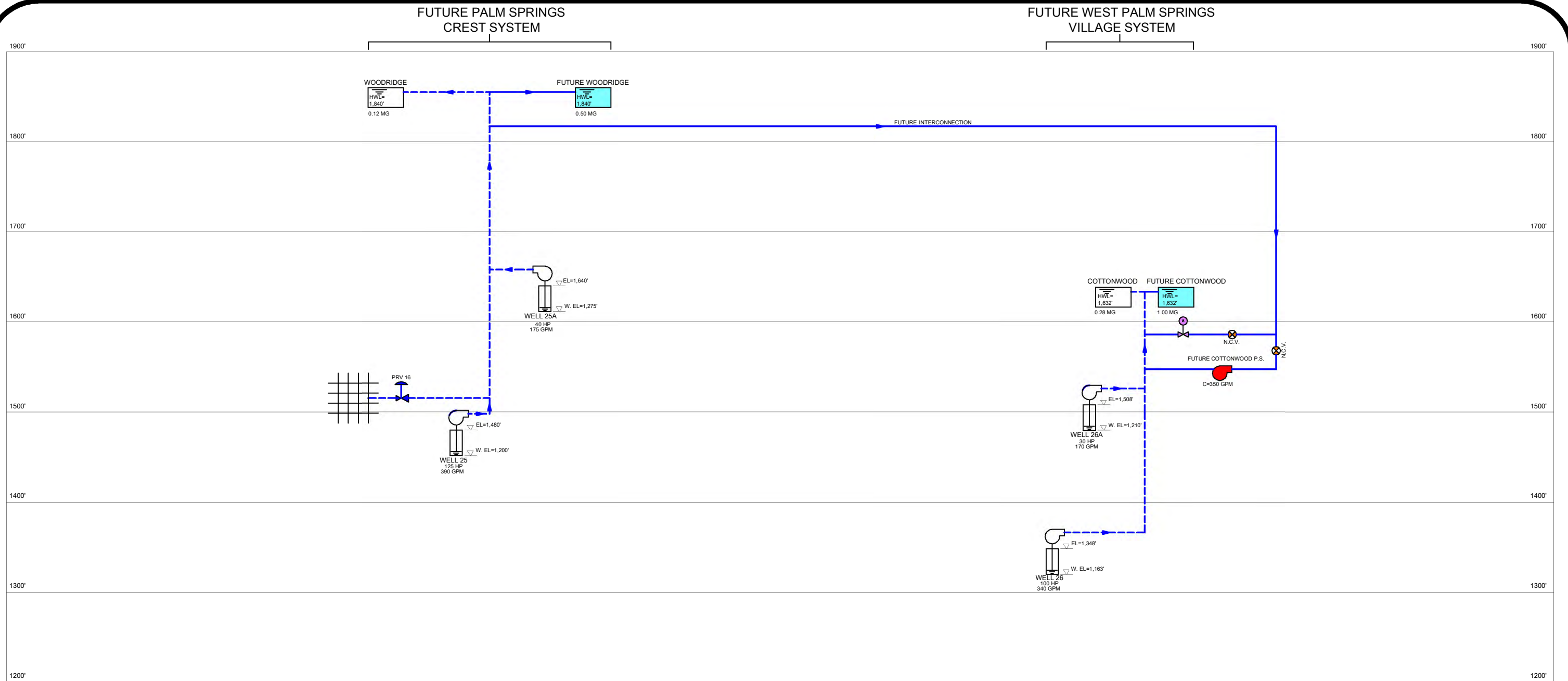
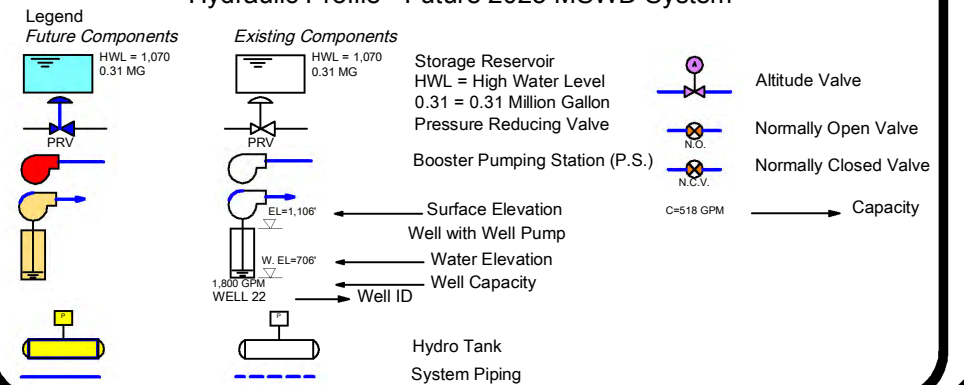
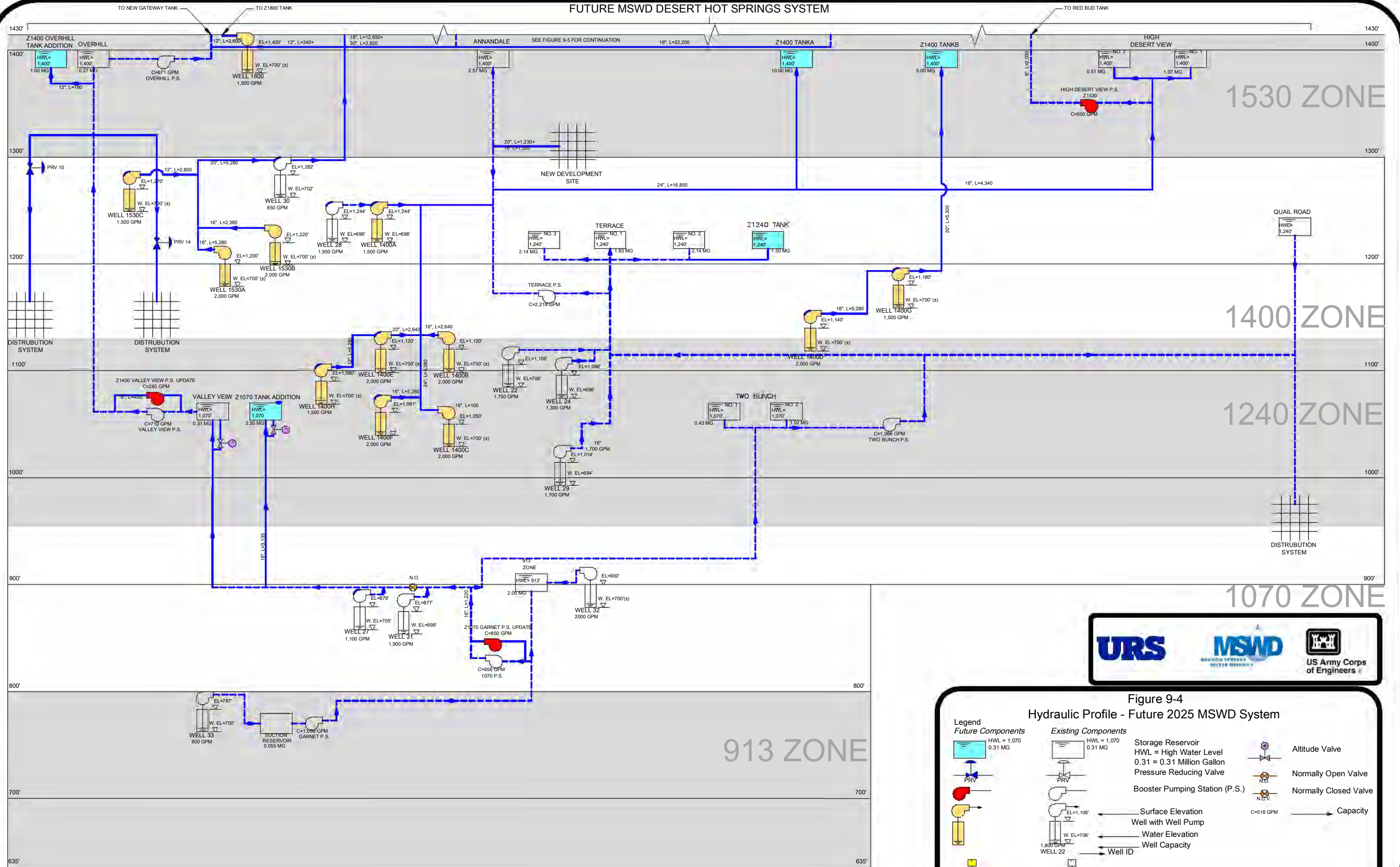


Figure 9-3  
Hydraulic Profile - Future 2025 MSWD System





# FUTURE MSWD DESERT HOT SPRINGS SYSTEM

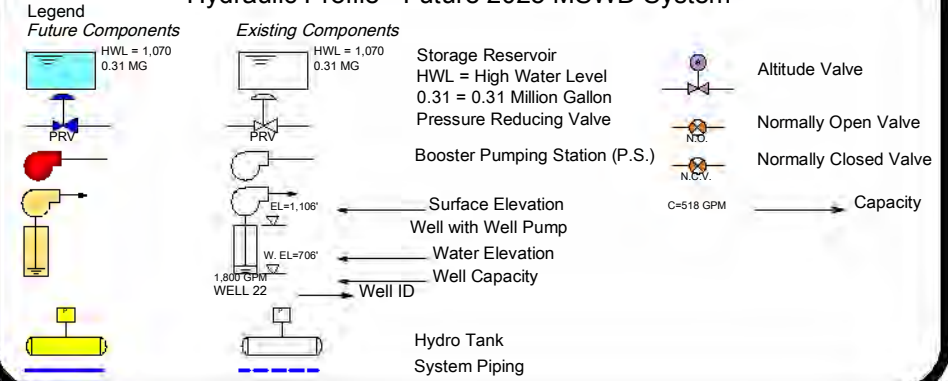


URS

MSWD

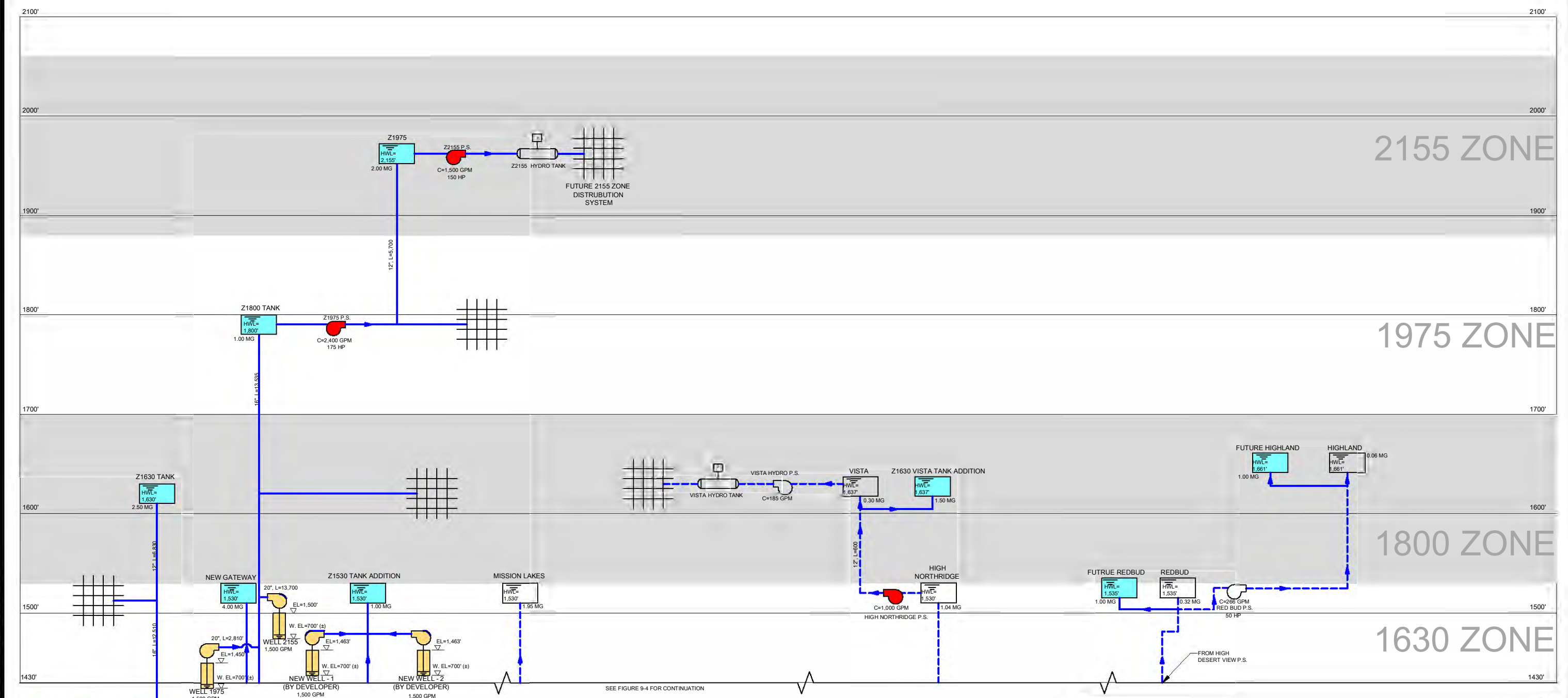
US Army Corps of Engineers

Figure 9-4  
Hydraulic Profile - Future 2025 MSWD System





FUTURE MSWD DESERT HOT SPRINGS SYSTEM



SEE FIGURE 9-4 FOR CONTINUATION

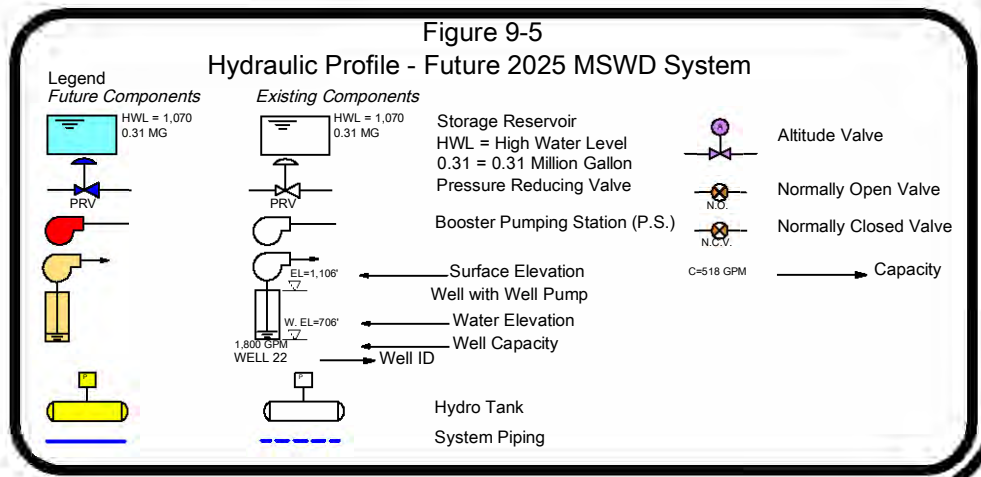




Figure 10-1  
2010 Improvement Plan

Legend

- New Tanks
- New Wells
- ▲ New Pumps
- New Pipes
- Pipes
- ◻ Pressure Reducing Valves
- ▲ Pumps
- Tanks
- Nodes
- Wells
- Potential Well Locations
- MSWD Boundary

0 2,500 5,000 Feet

Notes: Base topographic data from USGS  
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Geographic accuracy of modeling data  
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area, hydrogeologic conditions (obtained from  
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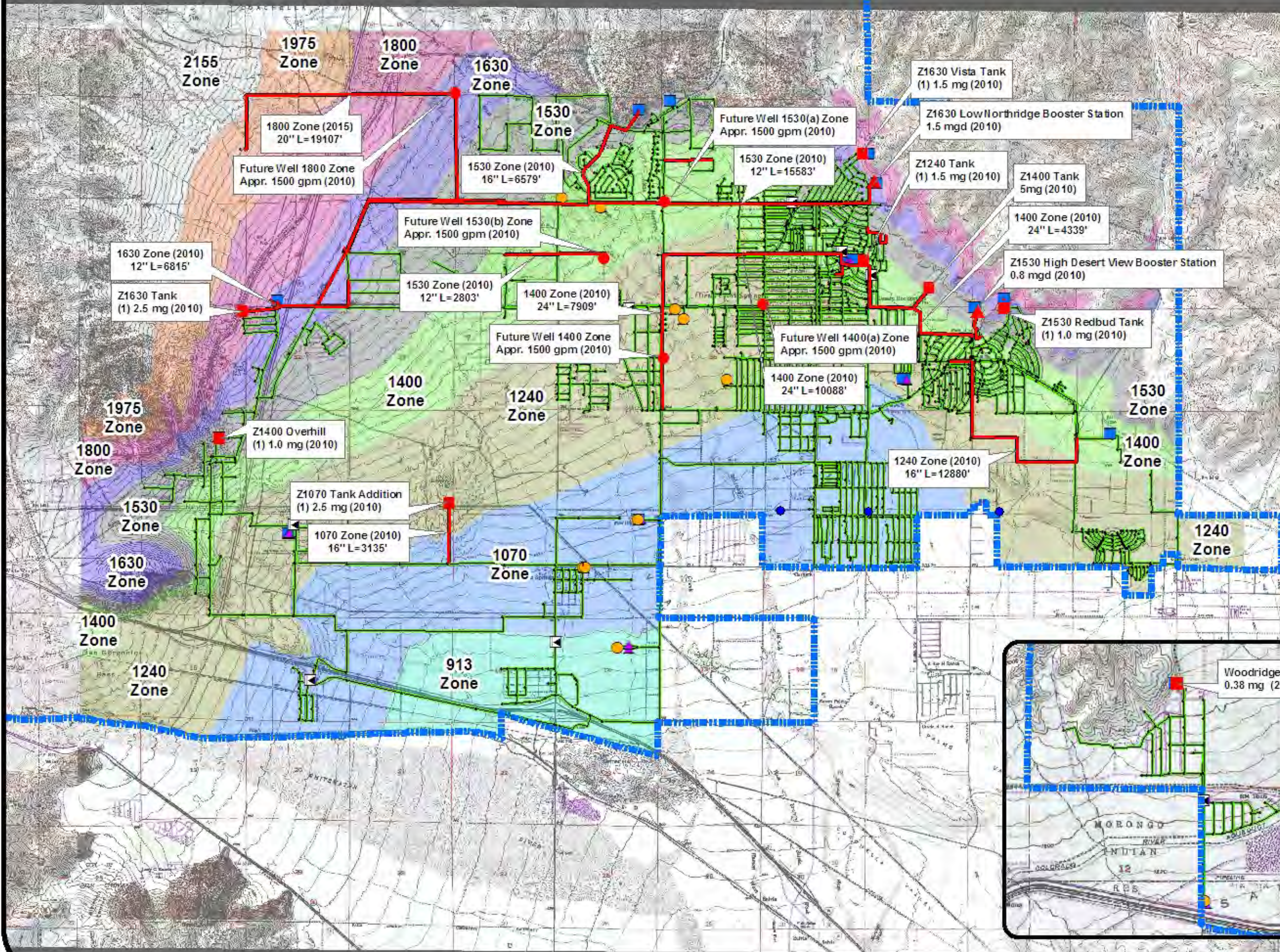
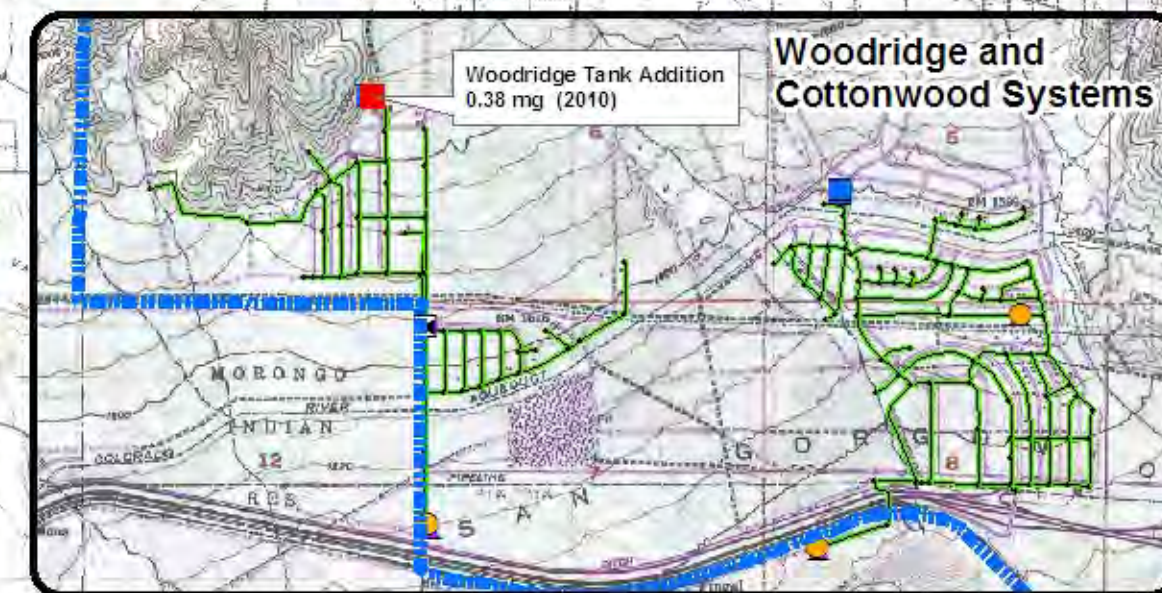




Figure 10-2  
2015 Improvement Plan

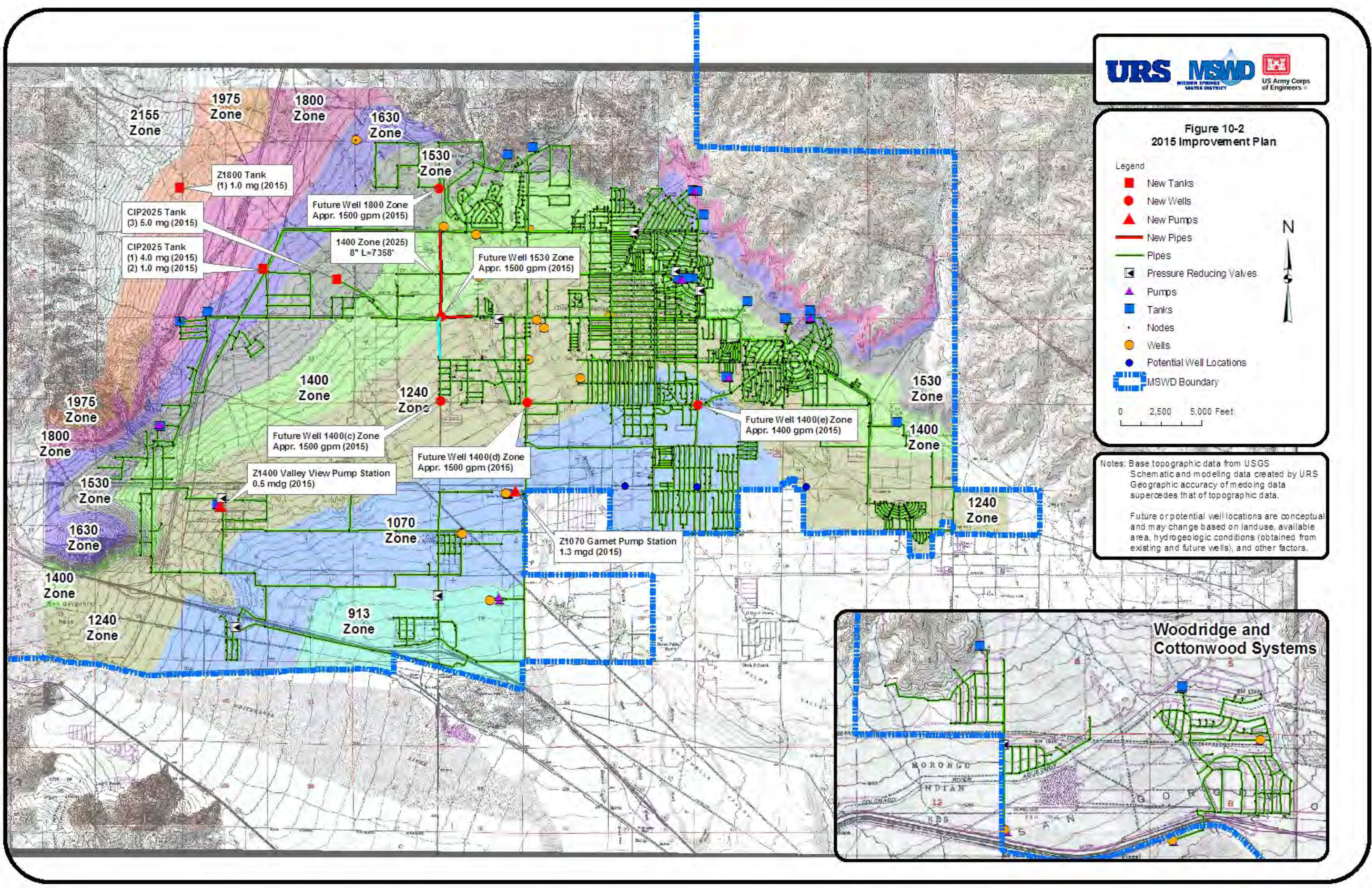
- Legend
- New Tanks
  - New Wells
  - ▲ New Pumps
  - New Pipes
  - Pipes
  - ◻ Pressure Reducing Valves
  - ▲ Pumps
  - Tanks
  - Nodes
  - Wells
  - Potential Well Locations
  - MSWD Boundary

0 2,500 5,000 Feet

Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

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and may change based on landuse, available  
area, hydrogeologic conditions (obtained from  
existing and future wells), and other factors.

### Woodridge and Cottonwood Systems





**Figure 10-3**  
**2020 Improvement Plan**

**Legend**

- New Tanks
- New Wells
- ▲ New Pumps
- New Pipes
- Pipes
- Pressure Reducing Valves
- ▲ Pumps
- Tanks
- Nodes
- Wells
- Potential Well Locations
- MSWD Boundary

0 2,500 5,000 Feet



Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
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Future or potential well locations are conceptual  
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area, hydrogeologic conditions (obtained from  
existing and future wells), and other factors.

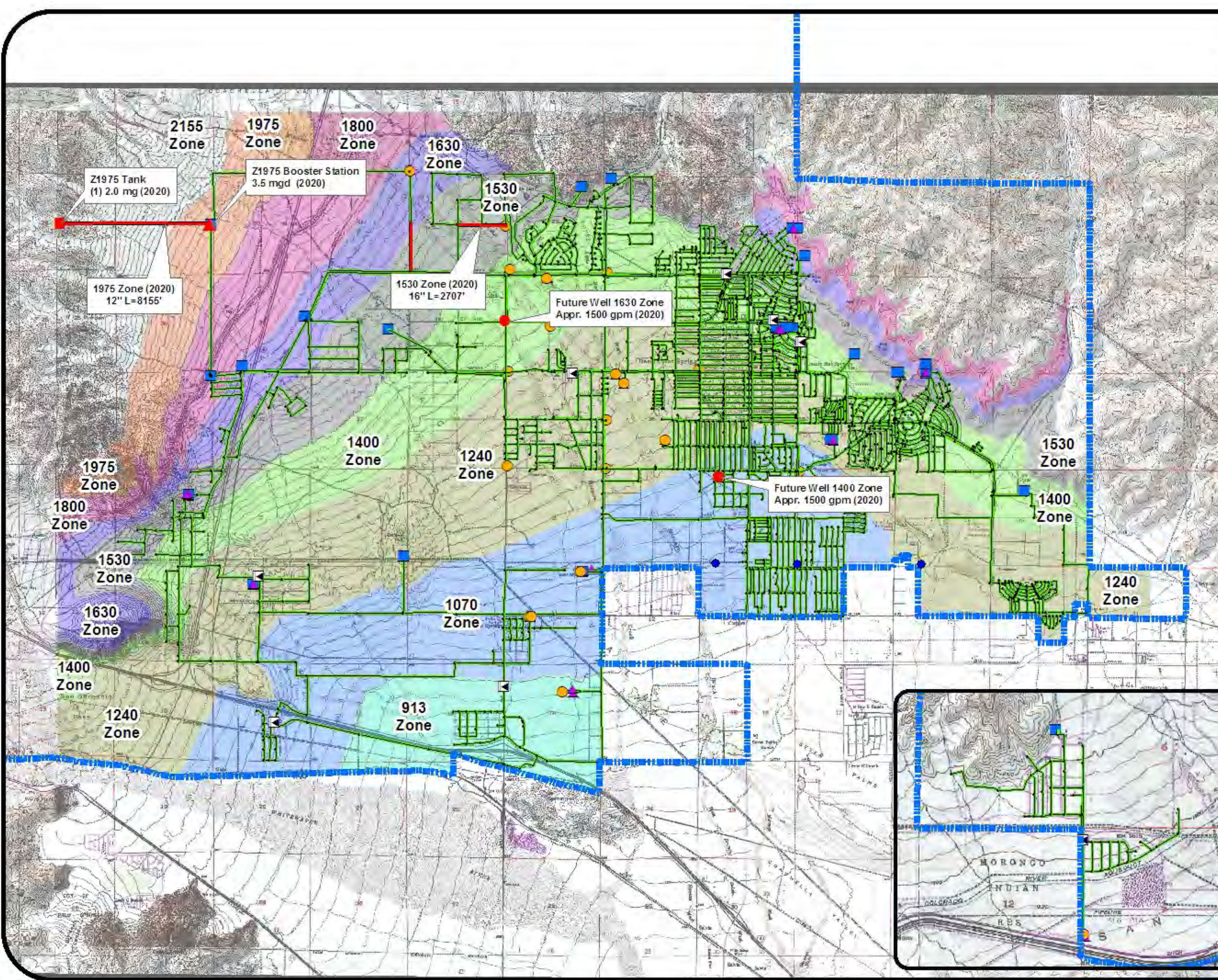
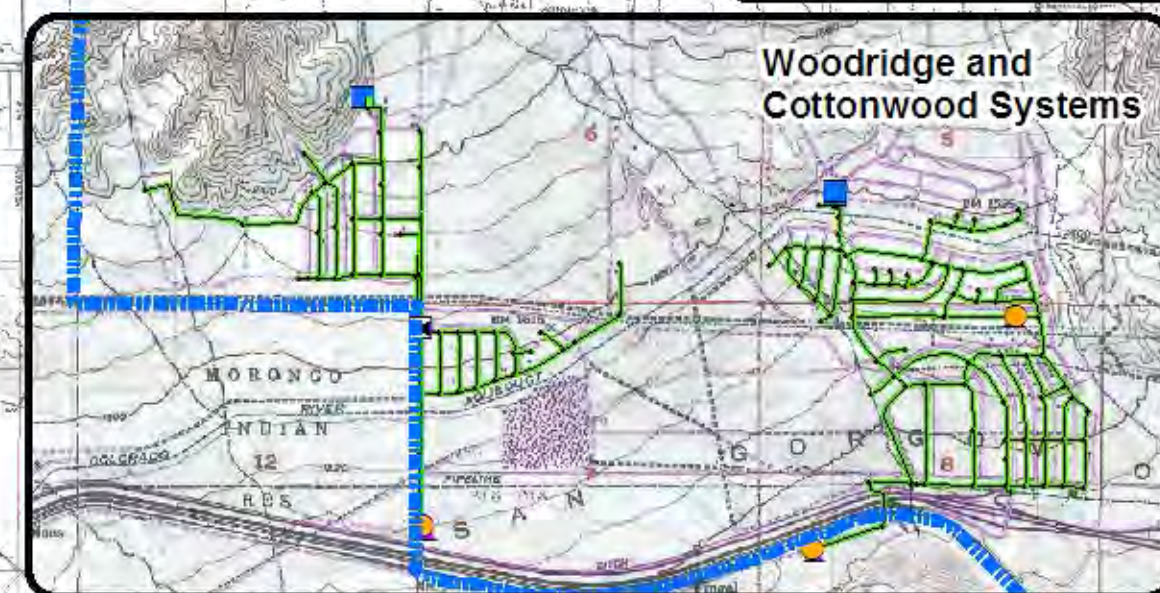




Figure 10-4  
2025 Improvement Plan

Legend

- New Wells
- ▲ New Pumps
- New Pipes
- Pipes
- ◻ Pressure Reducing Valves
- ▲ Pumps
- Tanks
- Nodes
- Wells
- Potential Well Locations
- MSWD Boundary

0 2,500 5,000 Feet



Notes: Base topographic data from USGS  
Schematic and modeling data created by URS  
Geographic accuracy of modeling data  
supercedes that of topographic data.

Future or potential well locations are conceptual  
and may change based on land use, available  
area, hydrogeologic conditions (obtained from  
existing and future wells), and other factors.

Woodridge and  
Cottonwood Systems

