

0 5,000 10,000  
Feet



**Map Grid Index**

## LEGEND:

- Monitoring Well
  - ⊕ Domestic Supply Well (active and inactive)
  - Other Supply Well
  - Groundwater Extraction Well
  - Multiuse Test Well, or Inactive
  - ⊕ Extraction/Injection Well
  - ▲ Inactive In Situ Reactive Zone Injection Well
  - ◆ Freshwater Injection Well
  - PG&E-Owned Property
  - PG&E Compressor Station
  - County Parcel
  - Bedrock Exposed at Ground Surface
  - See Footnote 3.
  - + Location is Approximate, Survey Pending
- Approximate Limit of Saturated Alluvium Upper Aquifer (Dashed Where Inferred)
  - Fault Trace is Inferred, and There is No Surface Expression (Stamos et al. 2001)
  - Approximate Outline of Cr(VI) or Cr(T) in Upper Aquifer Exceeding Values of 3.1 and 3.2 µg/L, Respectively, Second Quarter 2018 (Dashed Where Inferred)
  - Approximate 10 µg/L Outline of Cr(VI) or Cr(T)
  - Concentrations in Upper Aquifer, Second Quarter 2018 (Dashed Where Inferred)
  - Approximate 50 µg/L Outline of Cr(T)
  - Concentrations in Upper Aquifer, Second Quarter 2018
  - Approximate 1,000 µg/L Outline of Cr(VI) or Cr(T)
  - Concentrations in Upper Aquifer, Second Quarter 2018

MW-177D Well ID

- 1.6/1.8 Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Second Quarter 2018 sampling.  
(440/470) Data in parentheses are from previous reporting period. See Table E-1 for sample dates.

### Groundwater Cr(VI) Concentrations in Monitoring Wells:

- More than 1,000 µg/L
- 10 to 50 µg/L
- 100 to 1,000 µg/L
- 3.1 to 10 µg/L
- 50 to 100 µg/L
- Less than 3.1 µg/L or ND

## ABBREVIATIONS:

µg/L	Micrograms per Liter
CAO	Cleanup and Abatement Order
Cr(VI)	Hexavalent Chromium
Cr(T)	Total Dissolved Chromium
J	Estimated Result
ND	Not Detected
NS	Not Sampled

## NOTES:

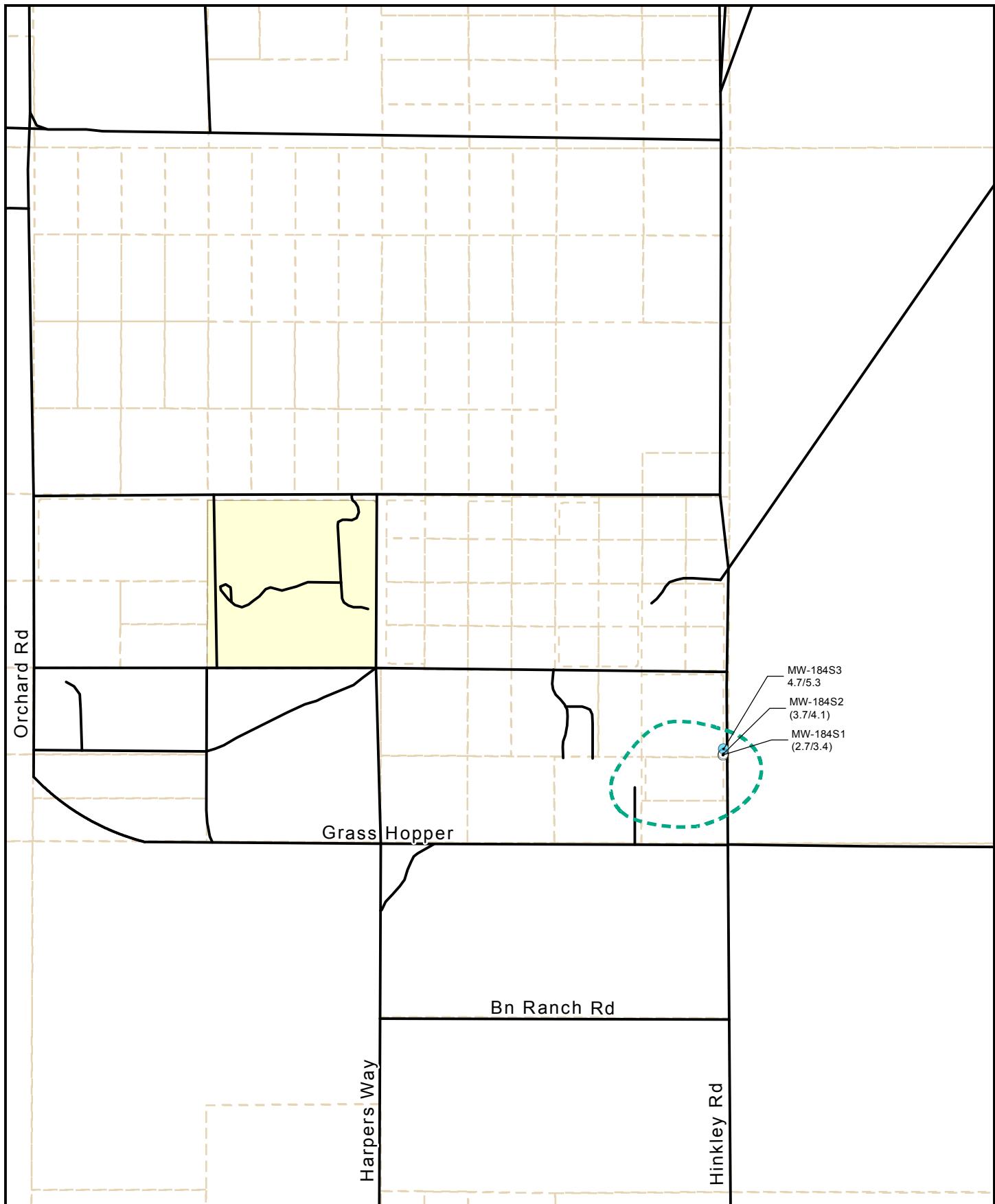
1. Chromium results are shown for Site-wide Groundwater Monitoring Program and domestic wells sampled in the Second Quarter (April through June) 2018 monitoring period. For wells sampled multiple times during the reporting period, the most recent results are shown.
2. The concentration contours are based on Second Quarter 2018 chromium results for the groundwater monitoring and extraction wells that are completed in the shallow zone and deep zone of the Upper Aquifer as noted on Figures 5-1 and 5-2. Results for domestic wells (brown-colored labels) were not used for chromium plume contouring, except for those in the northern disputed plume areas, pursuant to the Lahontan Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015 (Water Board 2015).
3. Pursuant to the Lahontan Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015 (Water Board 2015), groundwater monitoring wells are not used for chromium contouring if they are located in the areas southwest of the Lockhart Fault and on or east of Dixie Road. Monitoring wells sampled southwest of Lockhart Fault and east of Dixie Road were sampled in support of United States Geological Survey background chromium investigations.
4. Chromium plume contours in the general area south of Highway 58, were developed using a larger set of monitoring data which is presented in the the Second Quarter 2018 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwater Injection Projects (Arcadis 2018). Select wells from that program are shown here for reference.
5. Chromium contours were changed on the eastern side of the plume during the Third Quarter of 2016. These changes were made based on discussions with the Water Board, requirements in the Order and professional judgement. These changes to the plume contours on the eastern side of the plume reflect a revised interpretation of monitoring data and do not indicate plume expansion.

## WORKS CITED:

Arcadis. 2018. Second Quarter 2018 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwater Injection Projects, Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California, California Regional Water Quality Control Board, Lahontan Region Order No. R6V-2008-0014 (Waste Discharge Requirements Identification No. 6B369107001). April 30.

Stamos, C.L., P. Martin, T. Nishikawa, and B.F. Cox. 2001. *Simulation of Ground-Water Flow in the Mojave River Basin, California*. U.S. Geological Survey Water-Resources Investigations Report 01-4002, Version 3. Prepared in cooperation with the Mojave Water Agency.

Water Board. 2015. Cleanup and Abatement Order No. R6V-2015-0068 Requiring Pacific Gas and Electric Company to Clean up and Abate Waste Discharges of Total and Hexavalent Chromium to the Groundwaters of the Mojave Hydrologic Unit. November 4.

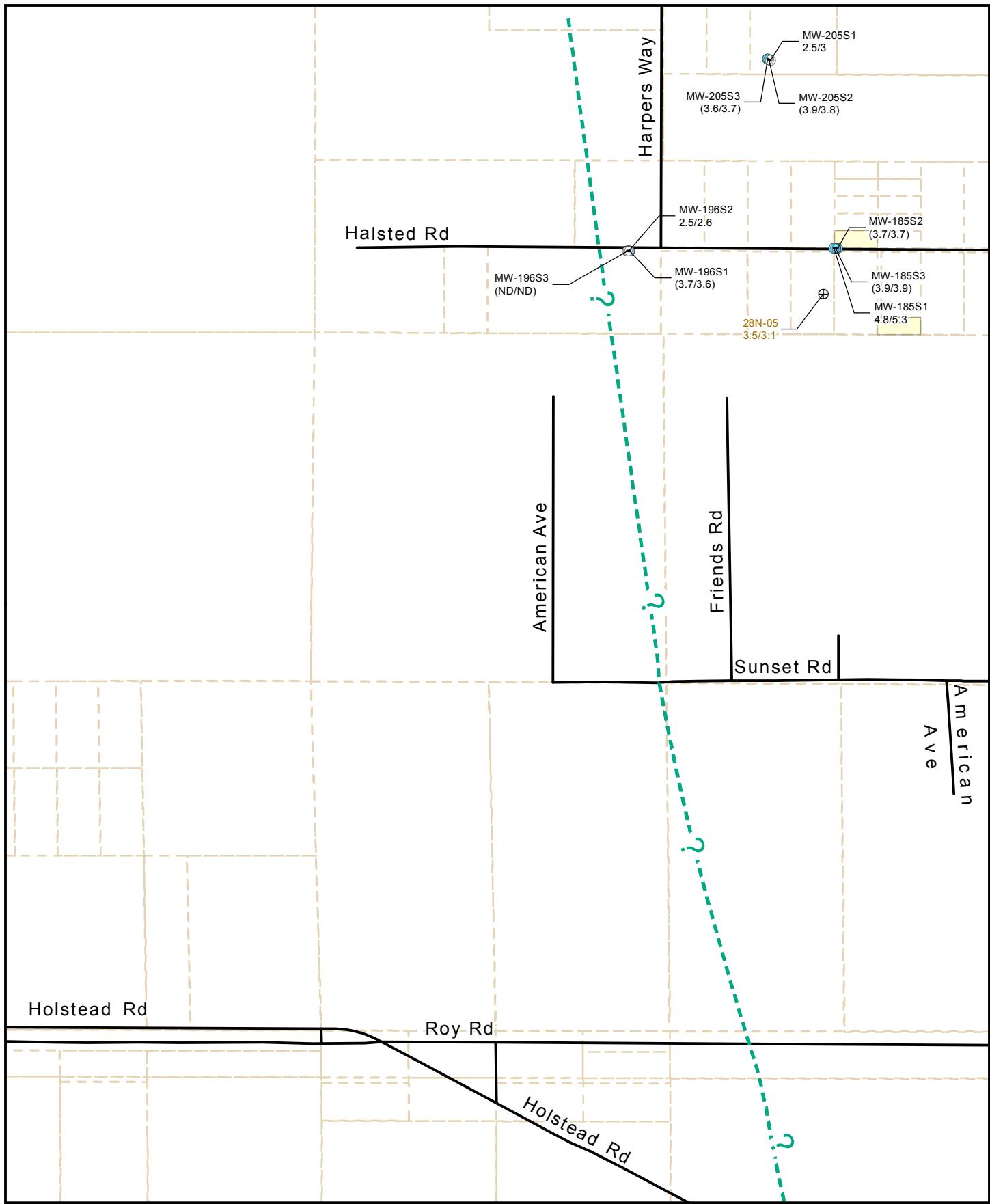


**See Legend Figure for  
Feature Descriptions**

0 500 1,000  
Feet



**MAP 01**

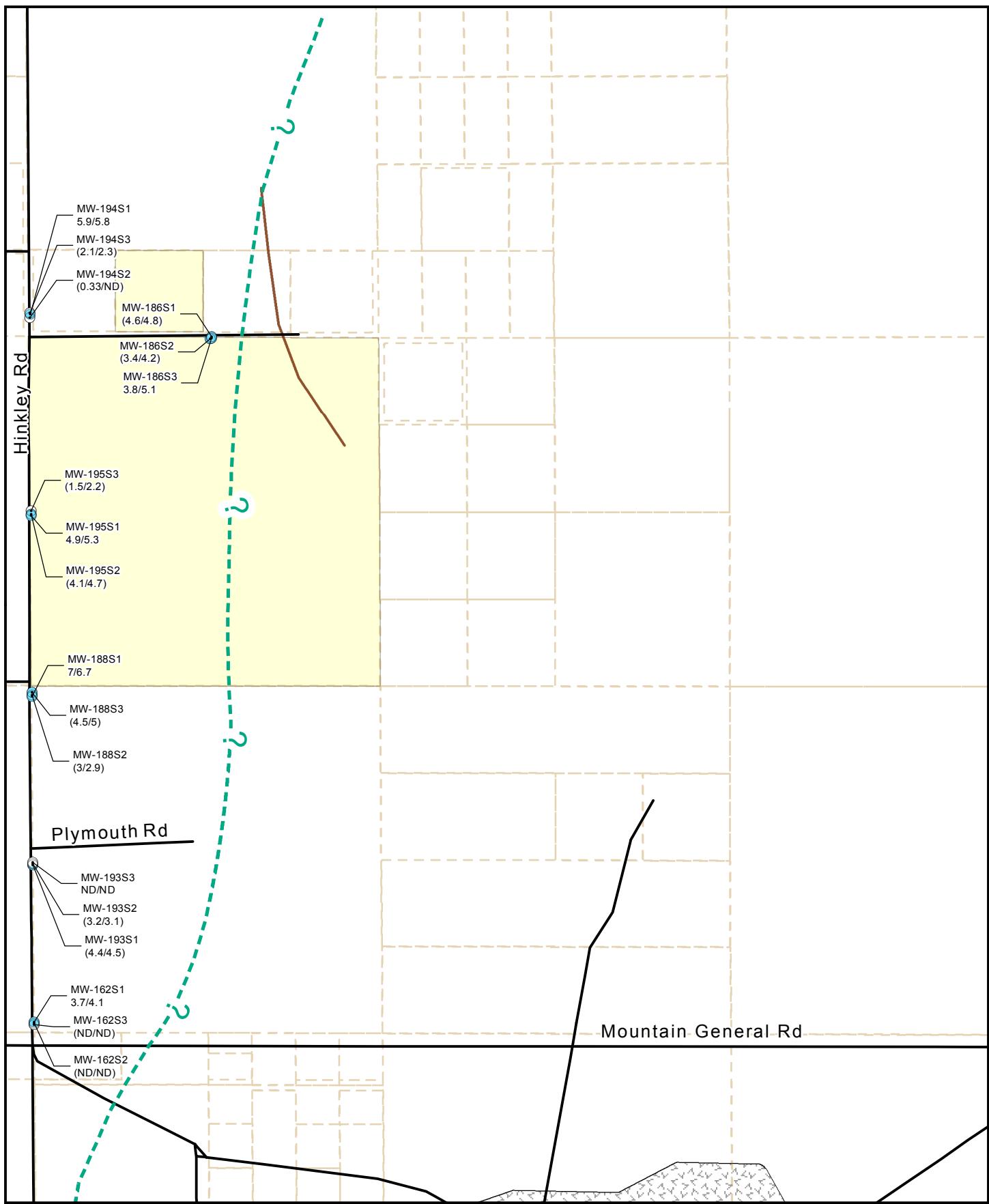


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Feature Descriptions**

0 500 1,000  
Feet



**MAP 02**

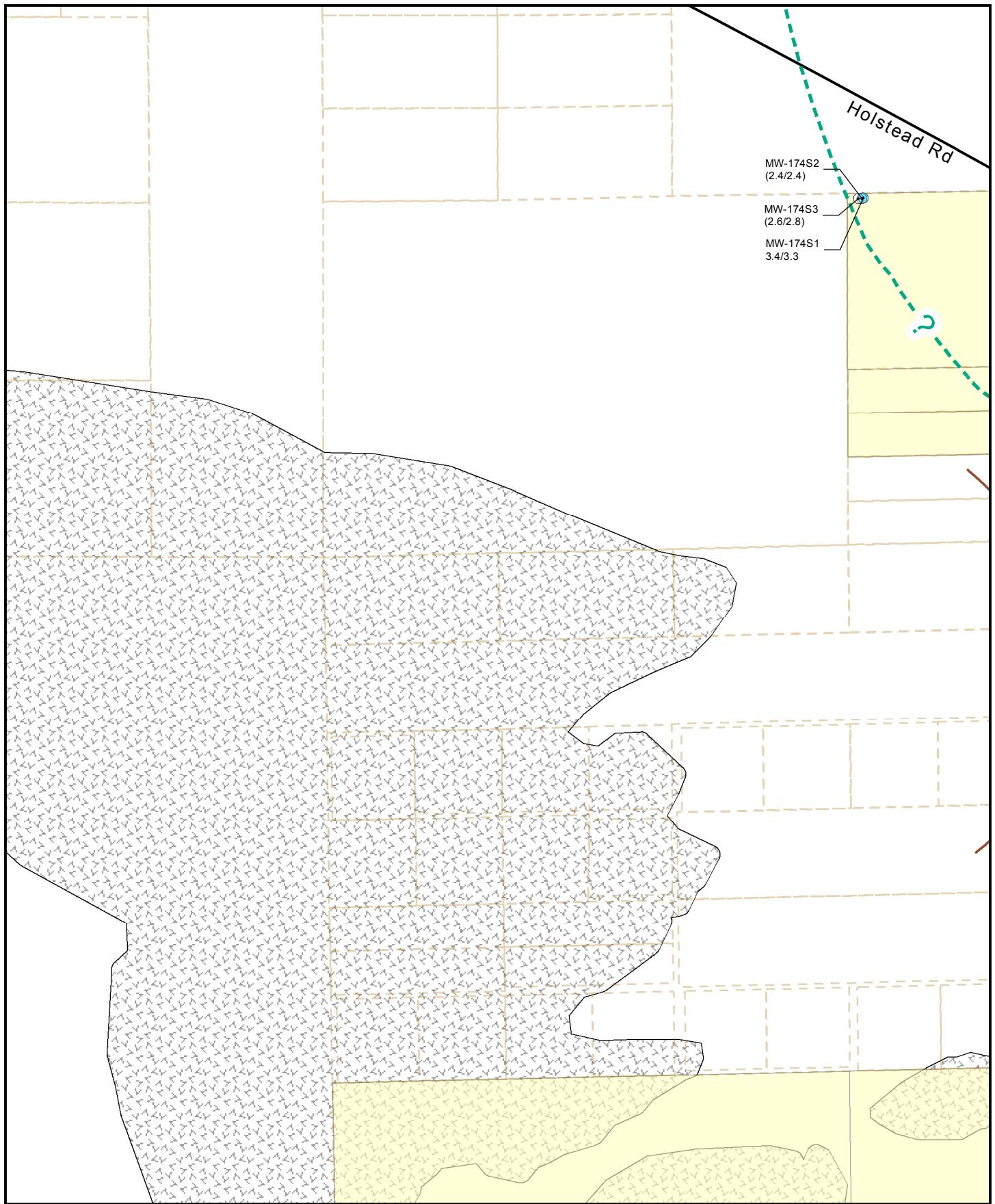


**See Legend Figure for  
Feature Descriptions**

0 500 1,000  
Feet



**MAP 03**

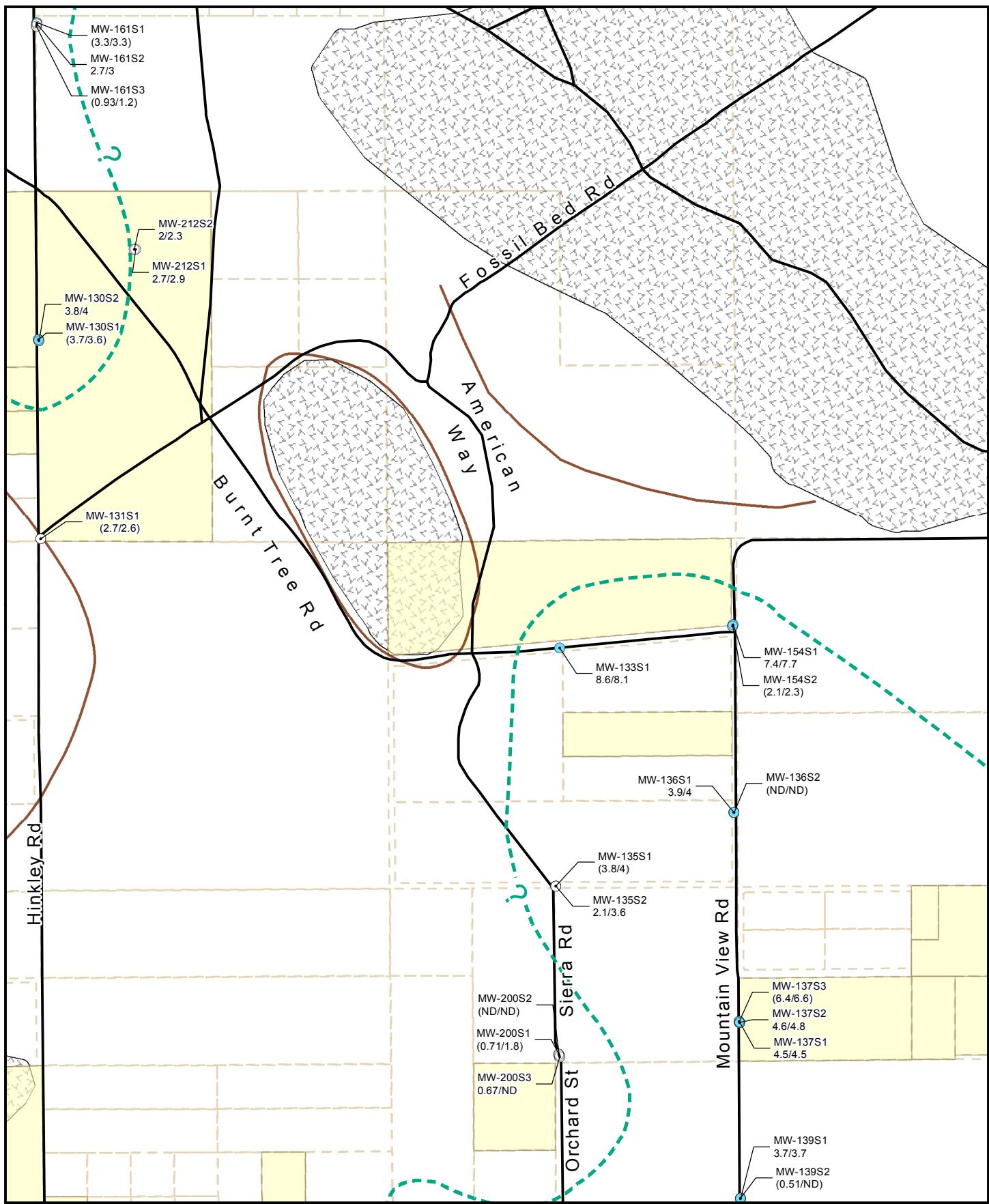


**See Legend Figure for  
Feature Descriptions**

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Feet



**MAP 04**

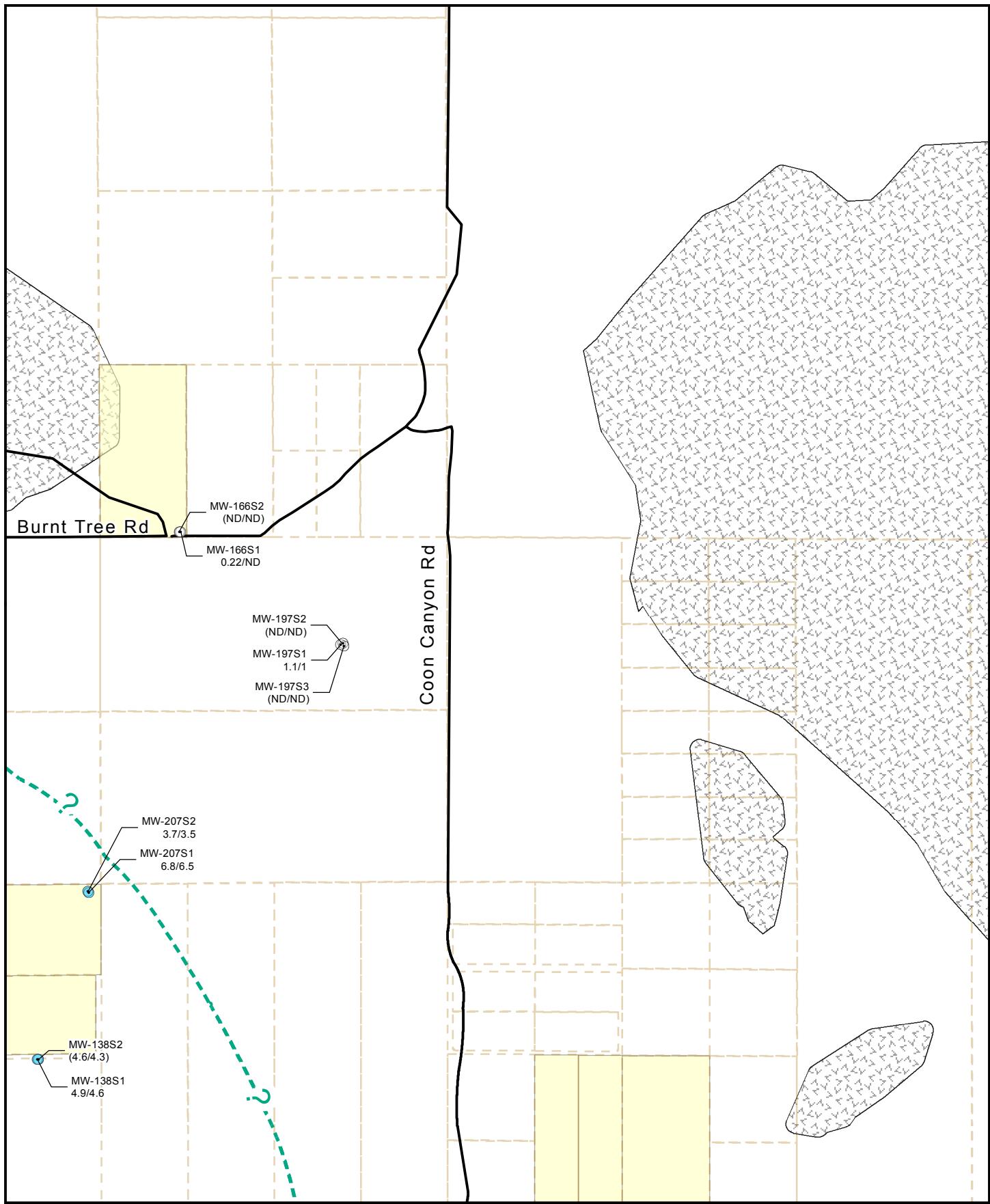


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Feature Descriptions**

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Feet



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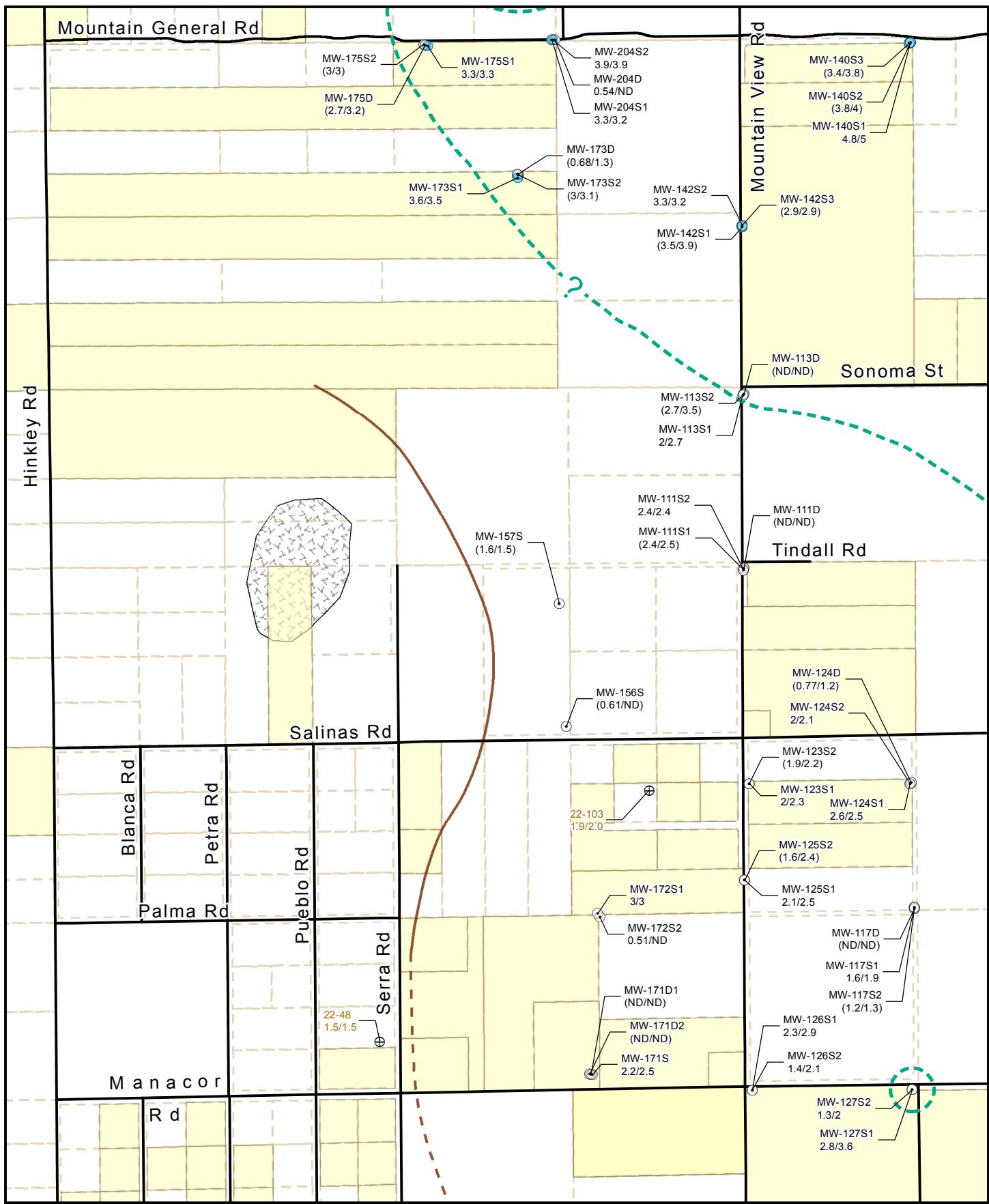


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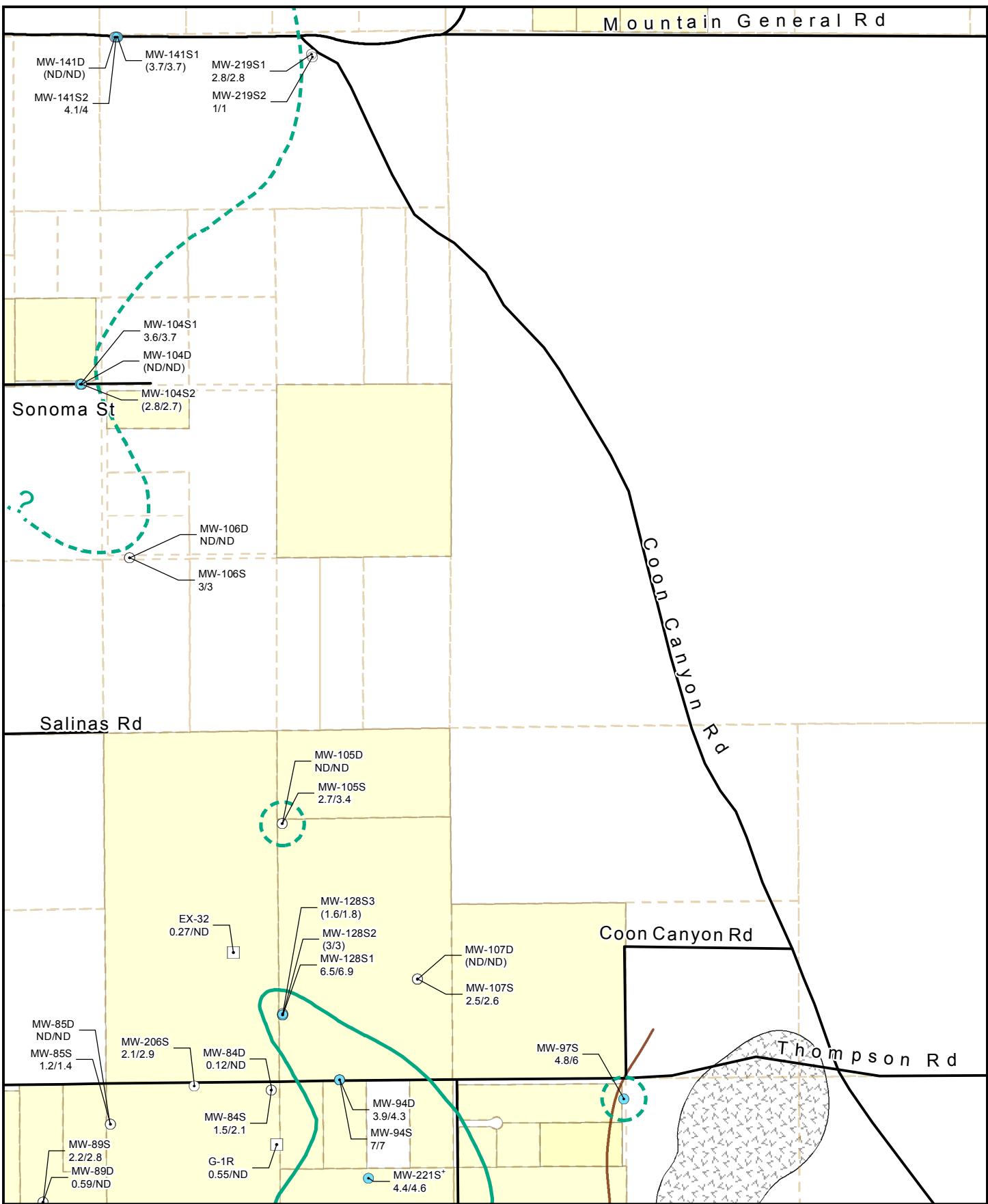
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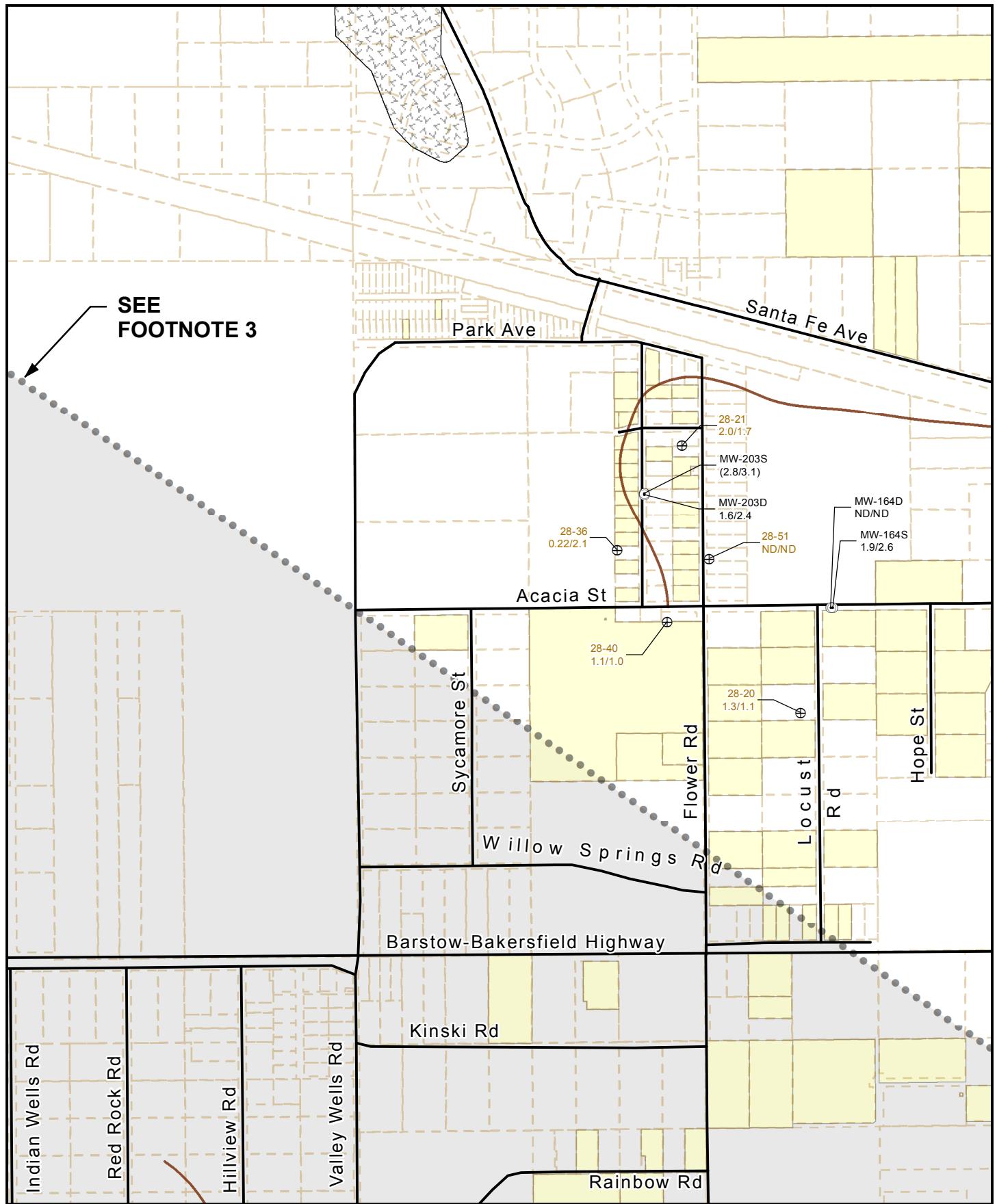
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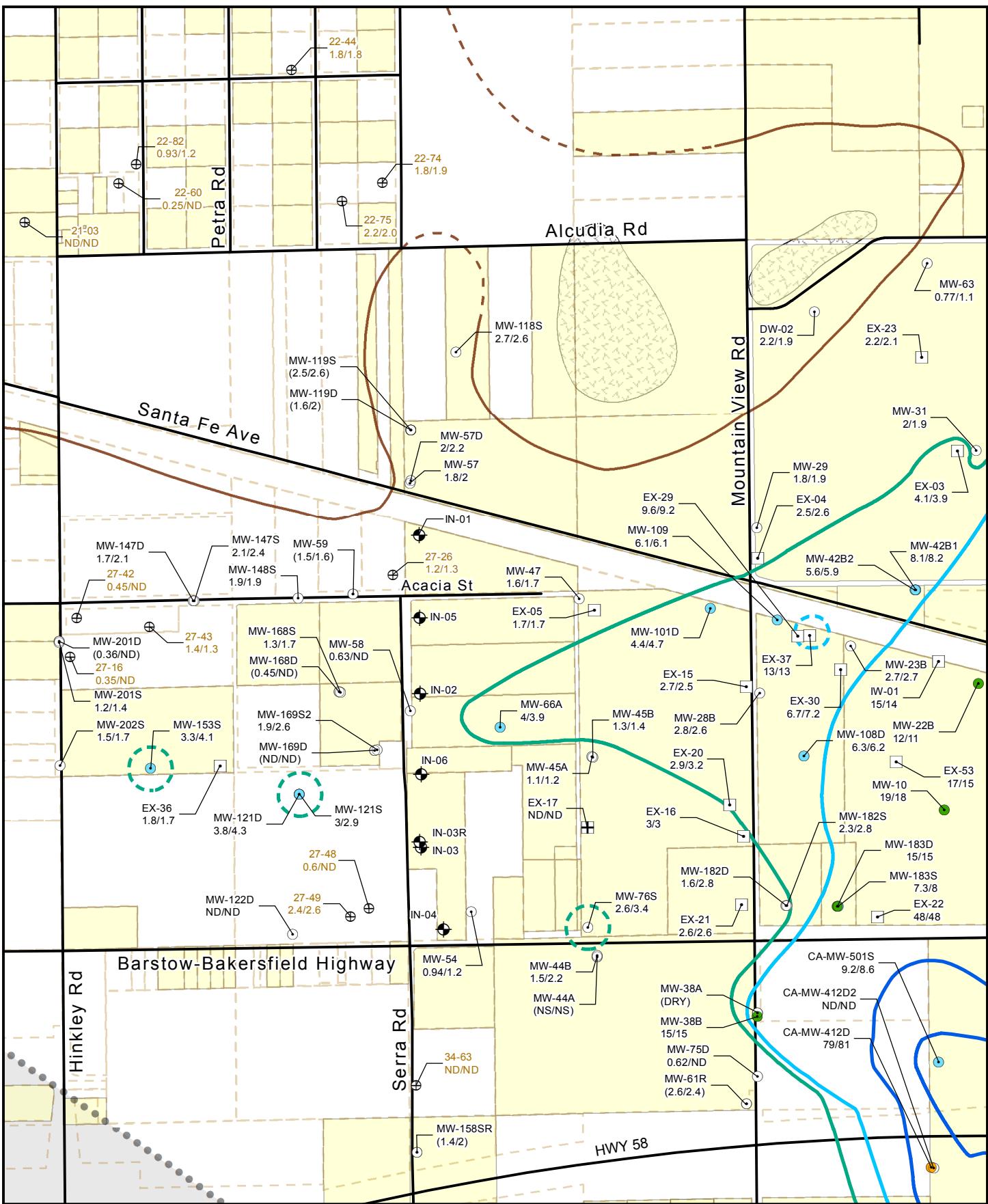
**MAP 08**



See Legend Figure for  
Feature Descriptions

0 500 1,000  
Feet

MAP 09

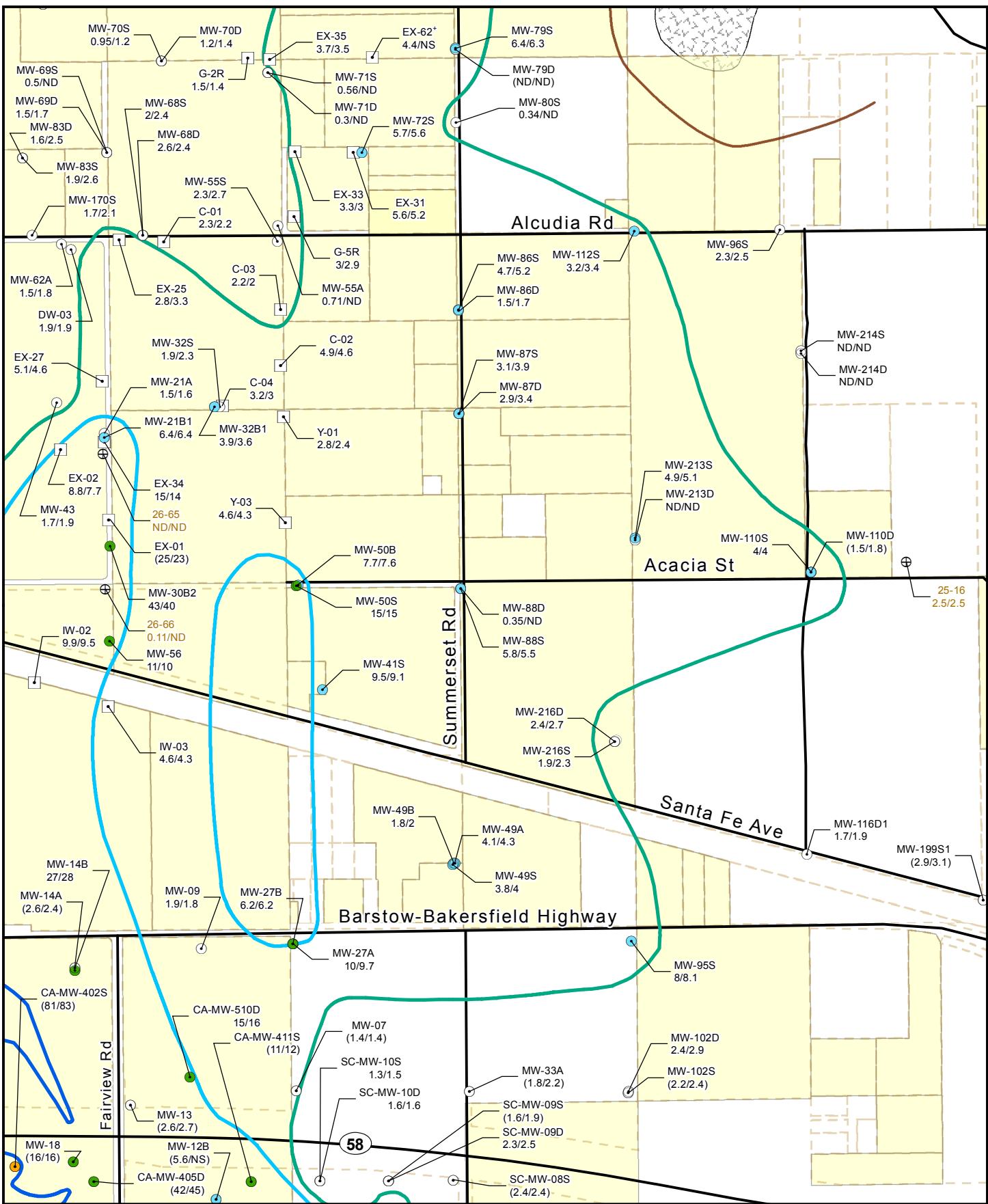


See Legend Figure for  
Feature Descriptions

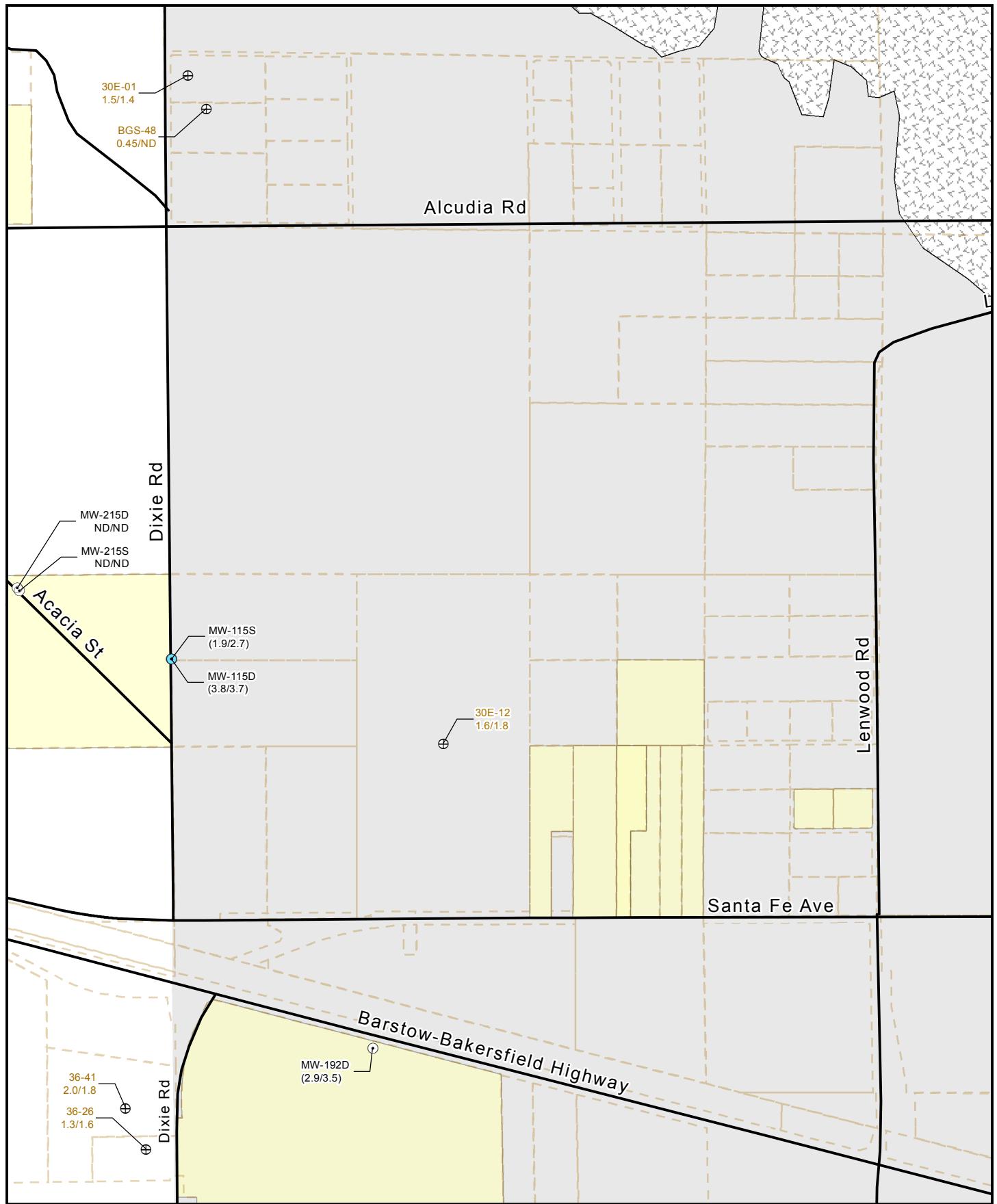
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Feet



MAP 10



MAP 11

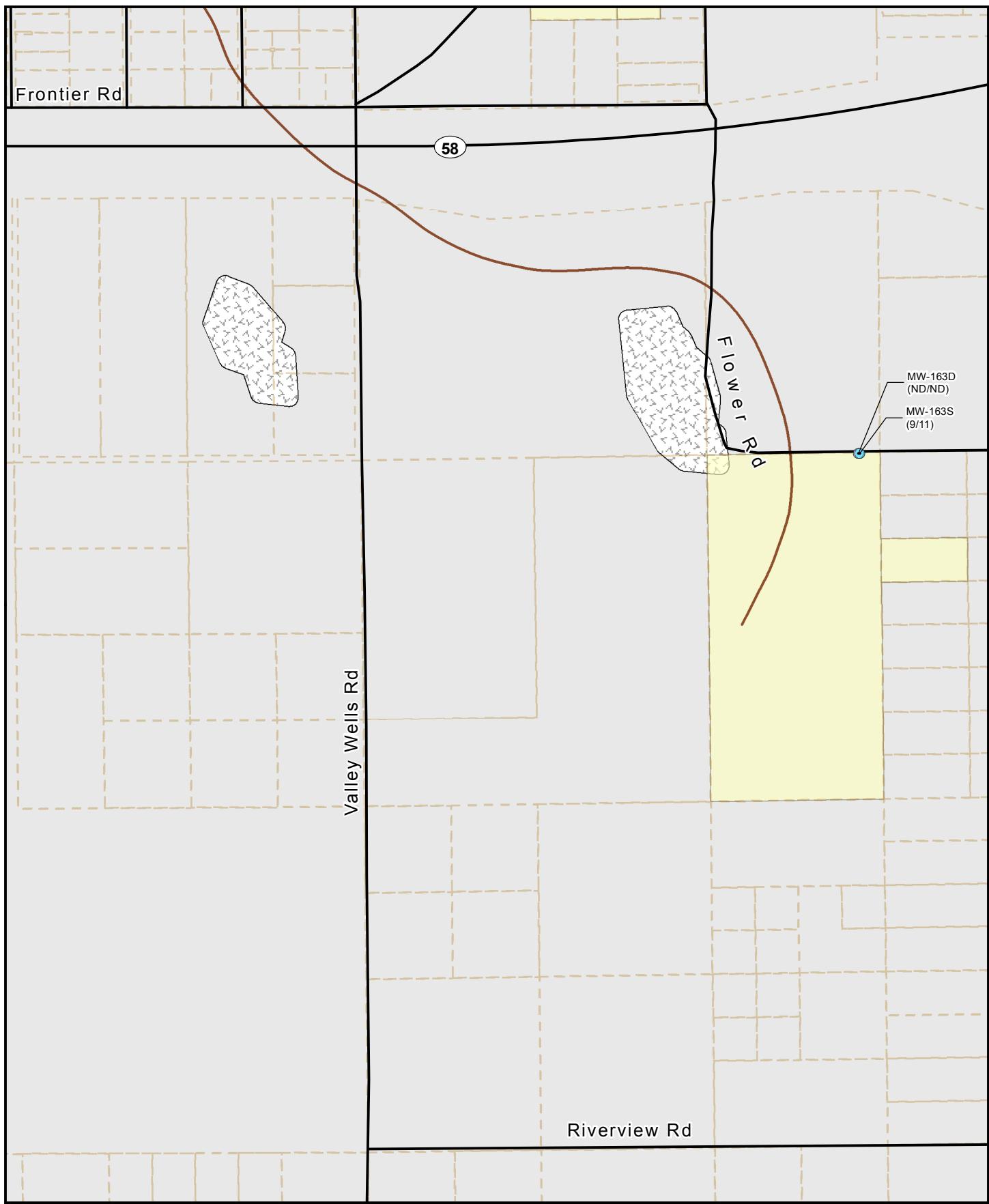


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0 500 1,000  
Feet



**MAP 12**

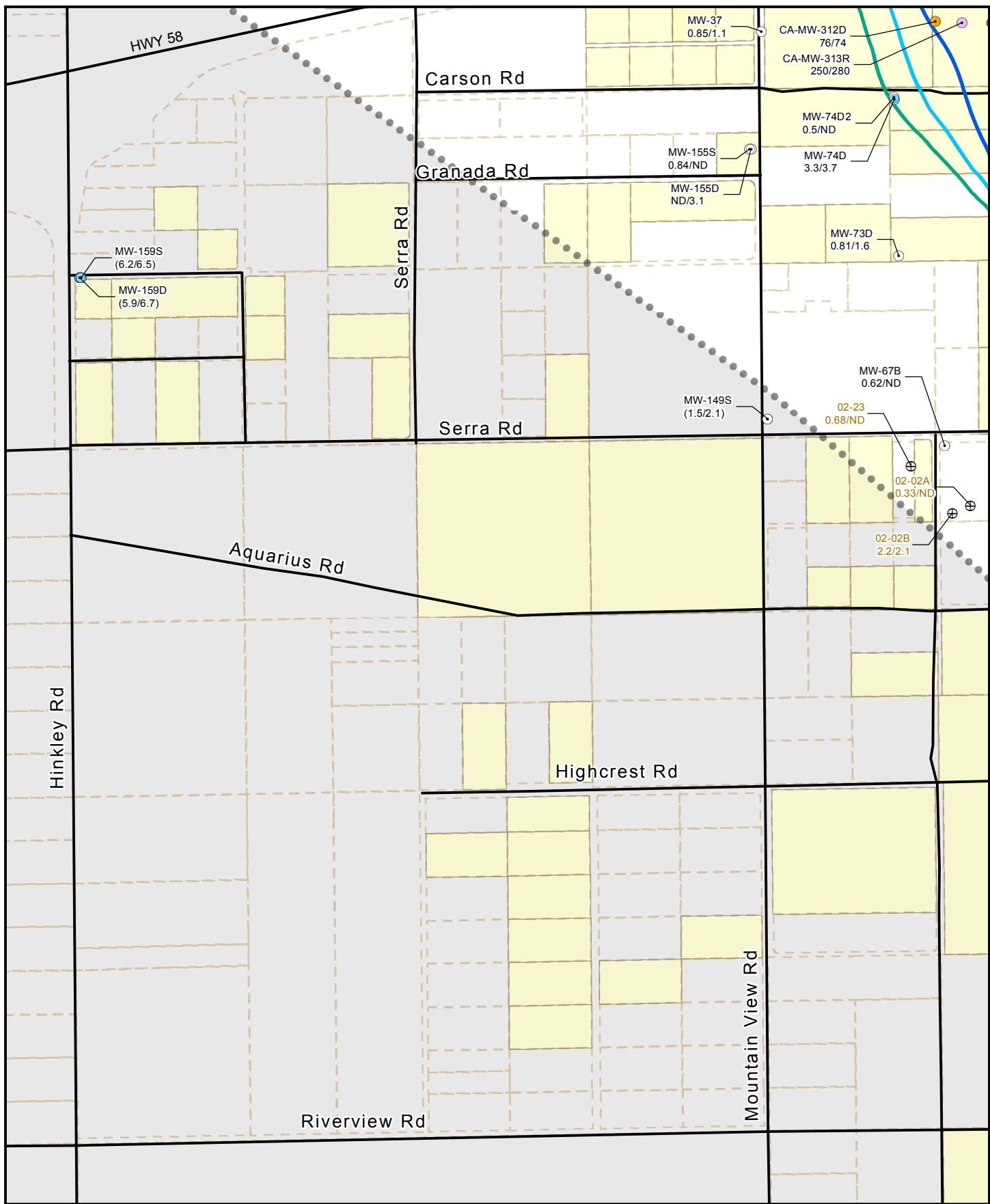


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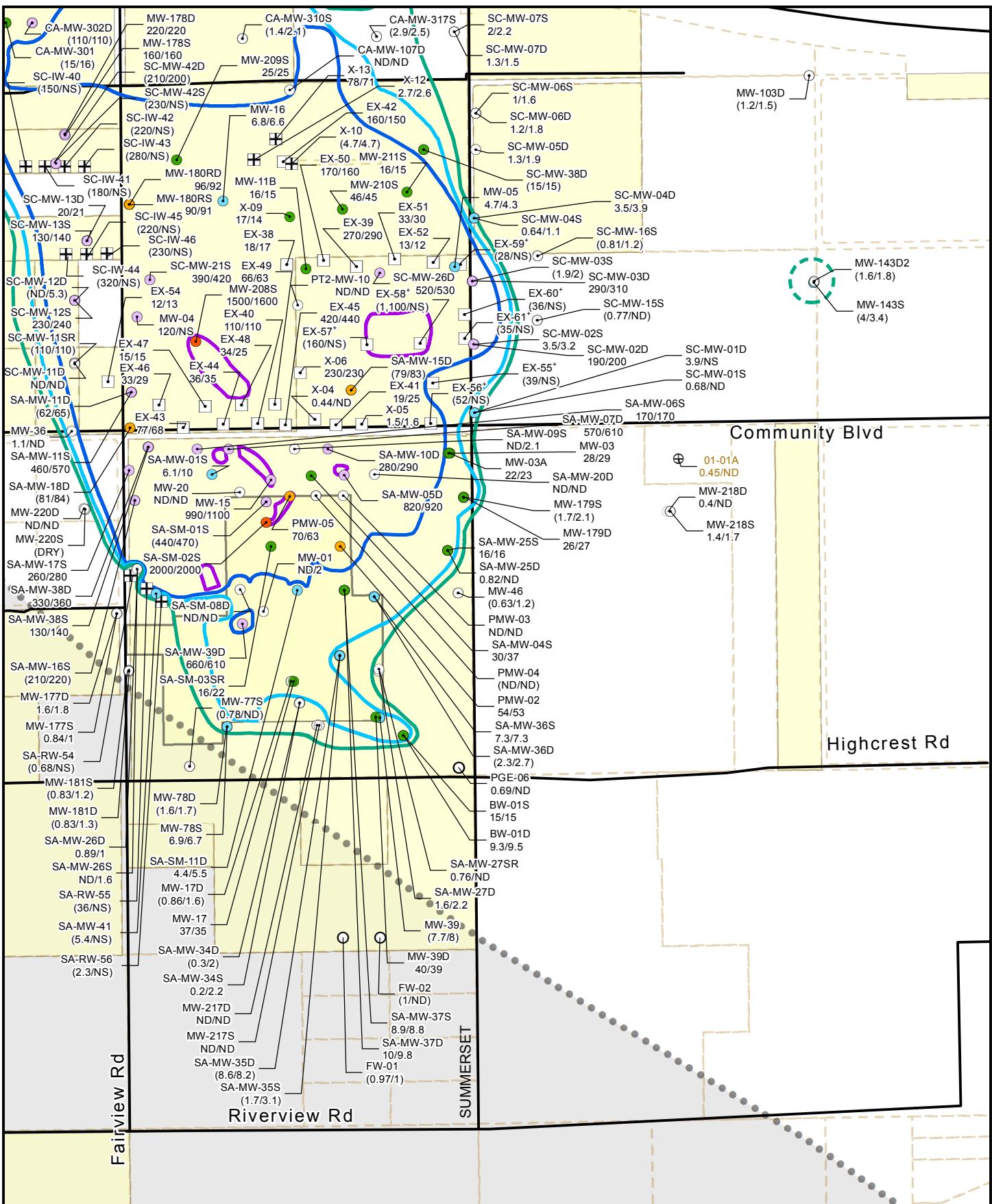
**MAP 13**



See Legend Figure for  
Feature Descriptions

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MAP 14

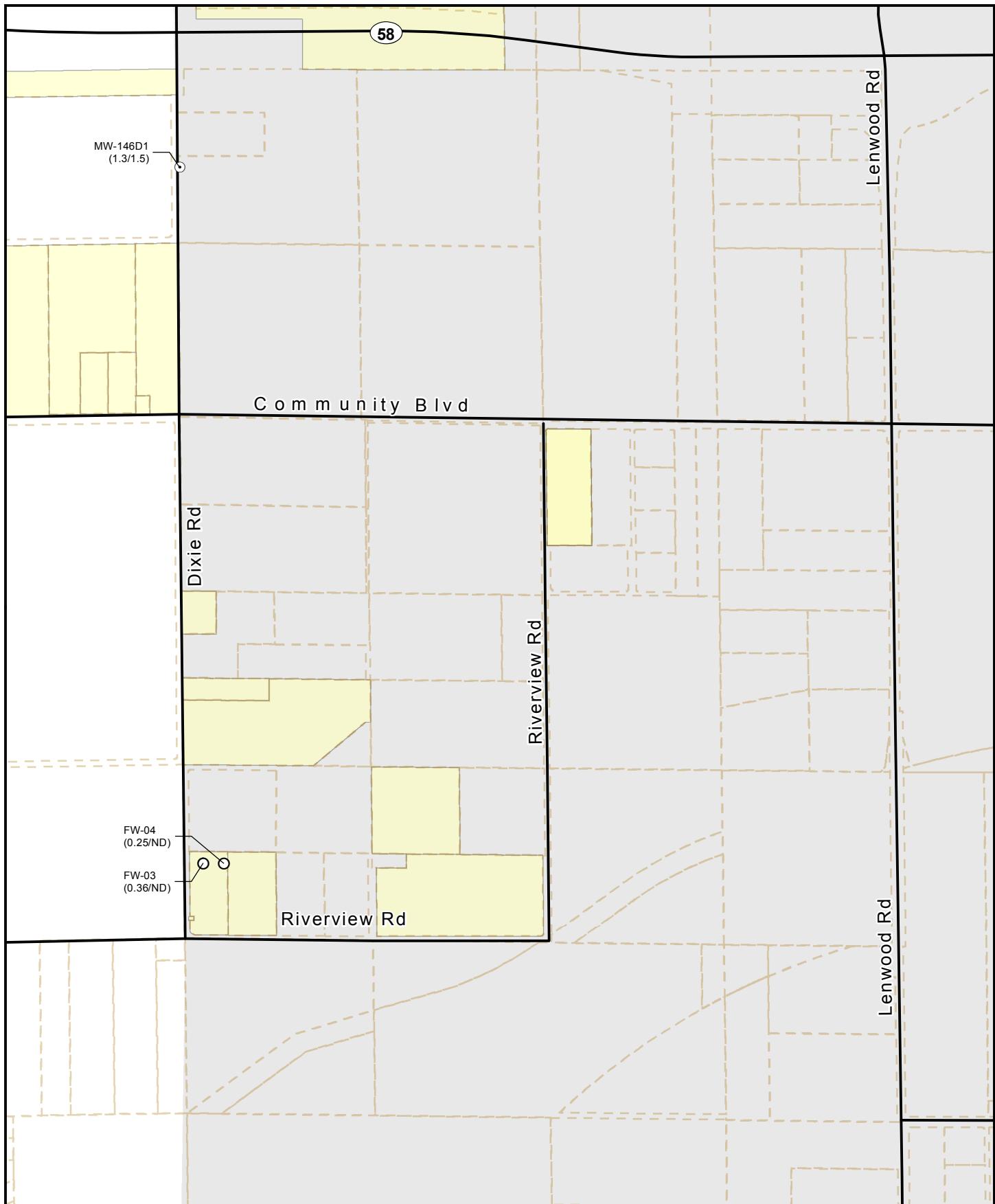


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**MAP 15**



**See Legend Figure for  
Feature Descriptions**

0 500 1,000 Feet



**MAP 16**