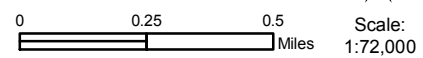


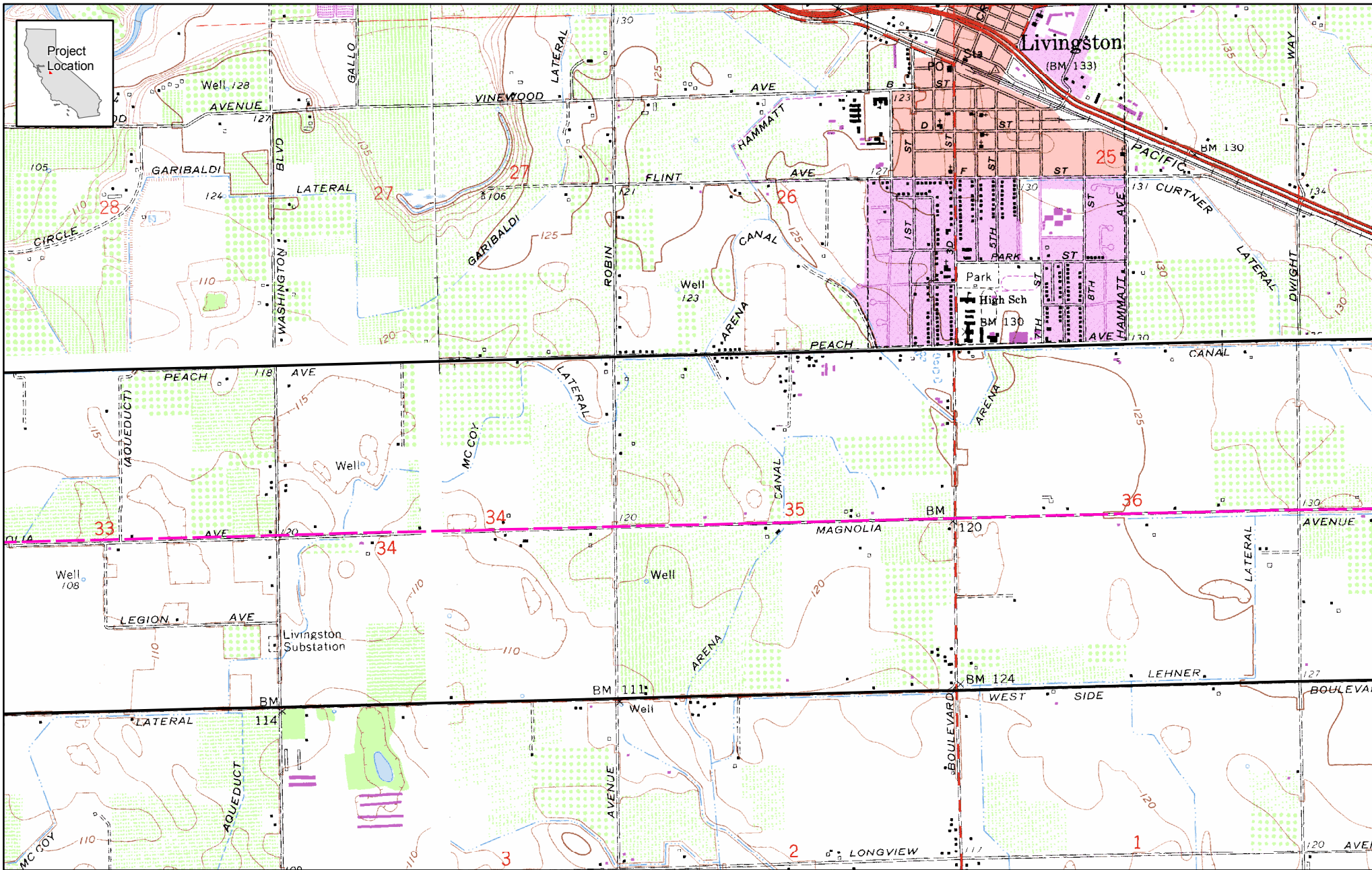
- Substation
- Cressey-Gallo Power Line Route
- Half-mile Radius Around Power Line Route

Data Source: USGS 7.5 Minute Topographic Quadrangle; Arena, Cressey, Stevinson (1987), Turlock (1976).



FIGURE 3.6-1 Map 1 of 5
Topographic Site Map
Cressey-Gallo 115 kV
Power Line Project



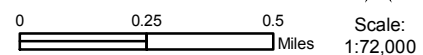


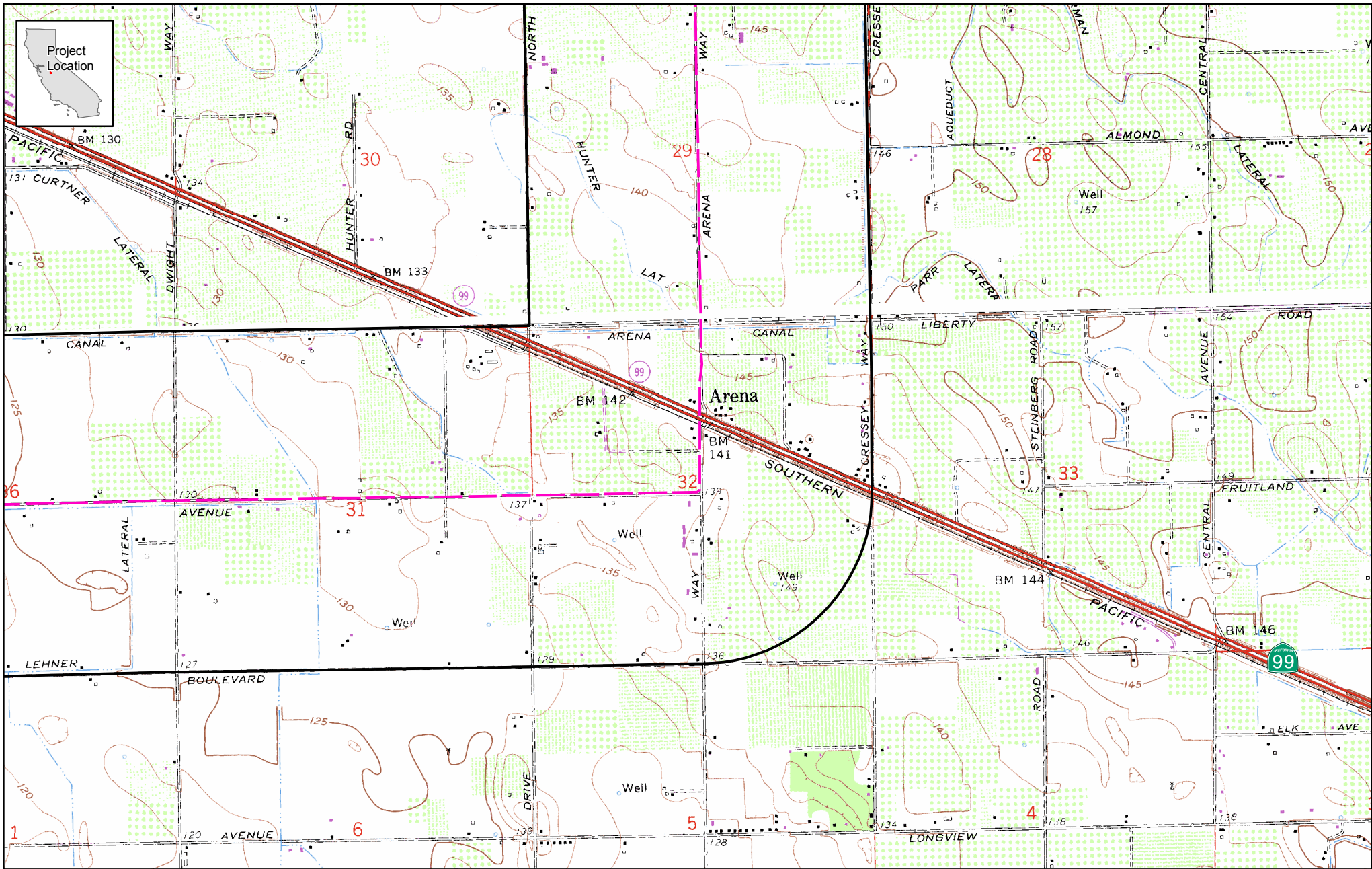
- Substation
- Cressey-Gallo Power Line Route
- Half-mile Radius Around Power Line Route

Data Source: USGS 7.5 Minute Topographic Quadrangle; Arena, Cressey, Stevinson (1987), Turlock (1976).



FIGURE 3.6-1 Map 2 of 5
 Topographic Site Map
 Cressey-Gallo 115 kV
 Power Line Project



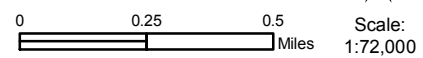


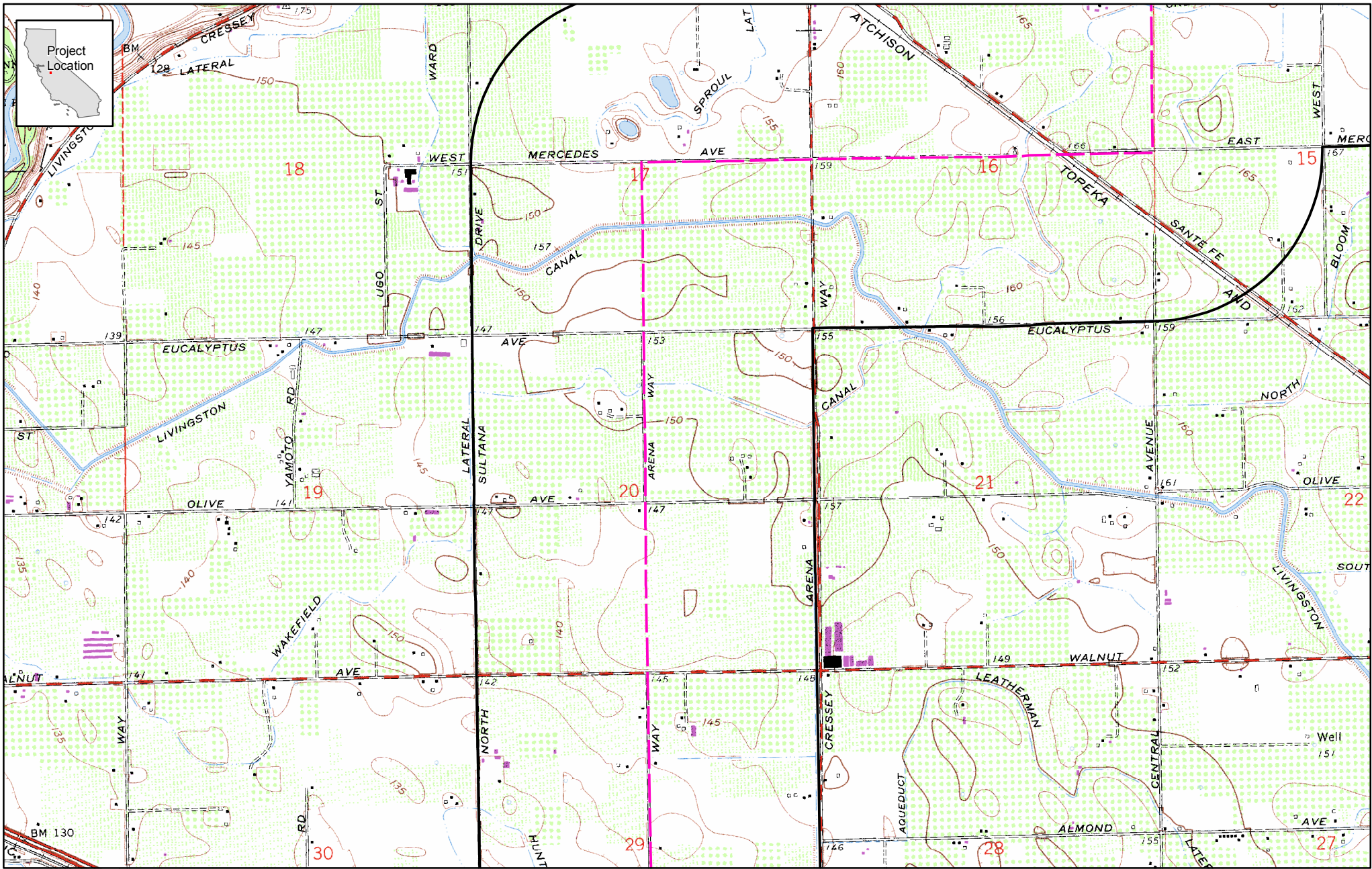
- Substation
- Cressey-Gallo Power Line Route
- Half-mile Radius Around Power Line Route

Data Source: USGS 7.5 Minute Topographic Quadrangle; Arena, Cressey, Stevinson (1987), Turlock (1976).



FIGURE 3.6-1 Map 3 of 5
 Topographic Site Map
 Cressey-Gallo 115 kV
 Power Line Project



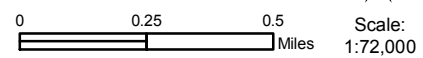


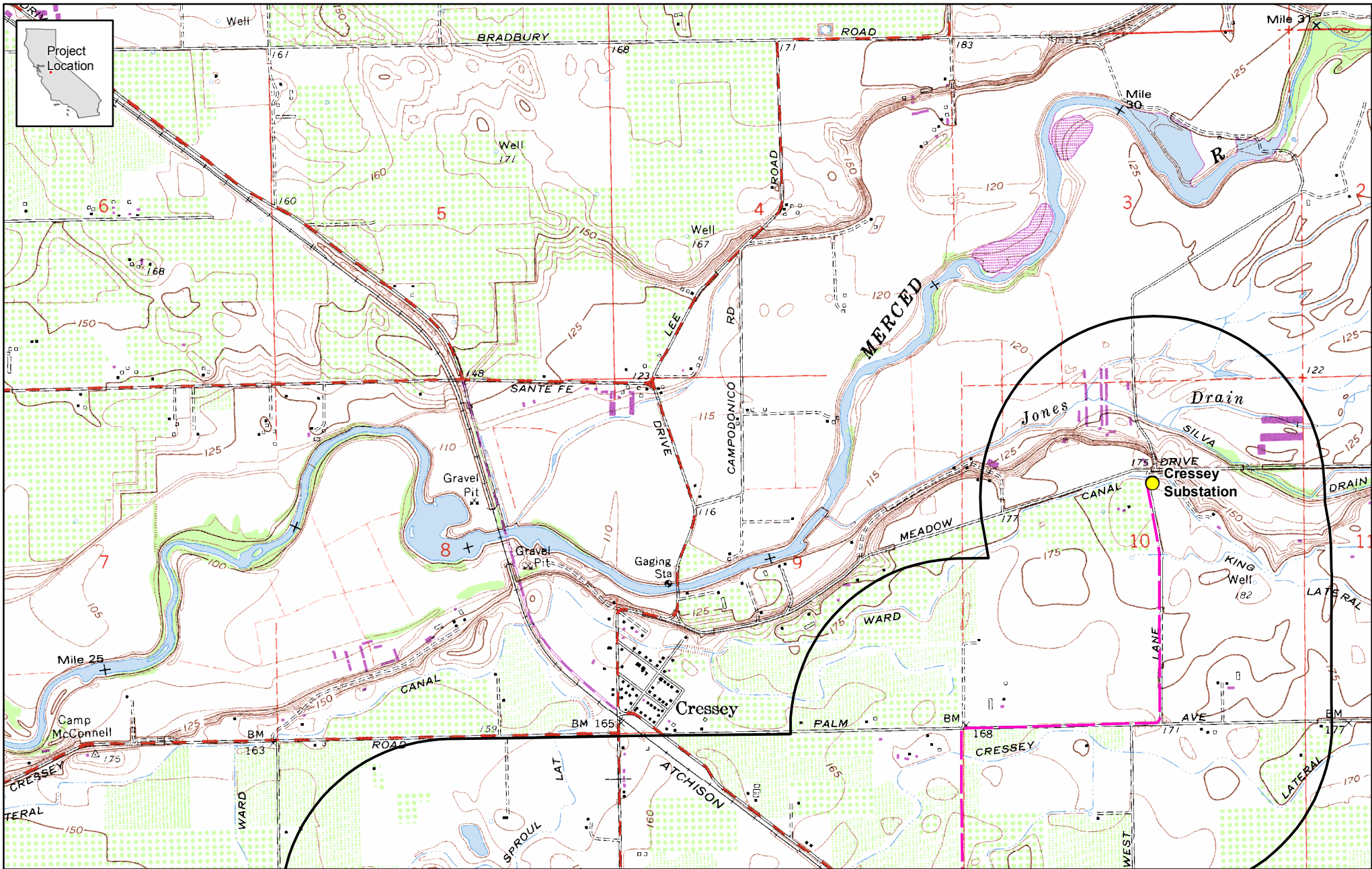
- Substation
- Cressey-Gallo Power Line Route
- Half-mile Radius Around Power Line Route

Data Source: USGS 7.5 Minute Topographic Quadrangle; Arena, Cressey, Stevinson (1987), Turlock (1976).



FIGURE 3.6-1 Map 4 of 5
 Topographic Site Map
 Cressey-Gallo 115 kV
 Power Line Project



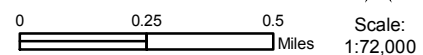


- Substation
- Cressey-Gallo Power Line Route
- Half-mile Radius Around Power Line Route

Data Source: USGS 7.5 Minute Topographic Quadrangle; Arena, Cressey, Stevinson (1987), Turlock (1976).



FIGURE 3.6-1 Map 5 of 5
 Topographic Site Map
 Cressey-Gallo 115 kV
 Power Line Project



Geologic Units

Post-Modesto (Holocene)

hal: alluvium; alluvial sand, silt, and gravel associated with floodplains and low terraces

hed: eolian sand; associated with local modern dunes

Modesto Formation, Upper Member (Pleistocene)

m2: coarse alluvium; alluvial sand, silt and gravel of channels, terraces, and upper fans

m2b: fine alluvium; alluvial sand, silt and clay of interdistributary areas, lower fans, and floodbasins, commonly stratified

m2e: eolian sand; associated with subdued, stabilized dunes

Modesto Formation, Lower Member (Pleistocene)

m1: coarse alluvium; alluvial sand, silt and gravel of channels, terraces, and upper fans

m1b: fine alluvium; alluvial sand, silt and clay of interdistributary areas, lower fans, and floodbasins, commonly stratified

m1e: eolian sand; moderately well sorted

Riverbank Formation, Upper Unit (Pleistocene)

r3: alluvium; alluvial sand, silt, and gravel

Riverbank Formation, Middle Unit (Pleistocene)

r2: alluvium; alluvial sand, silt and gravel

Riverbank Formation, Lower Unit (Pleistocene)

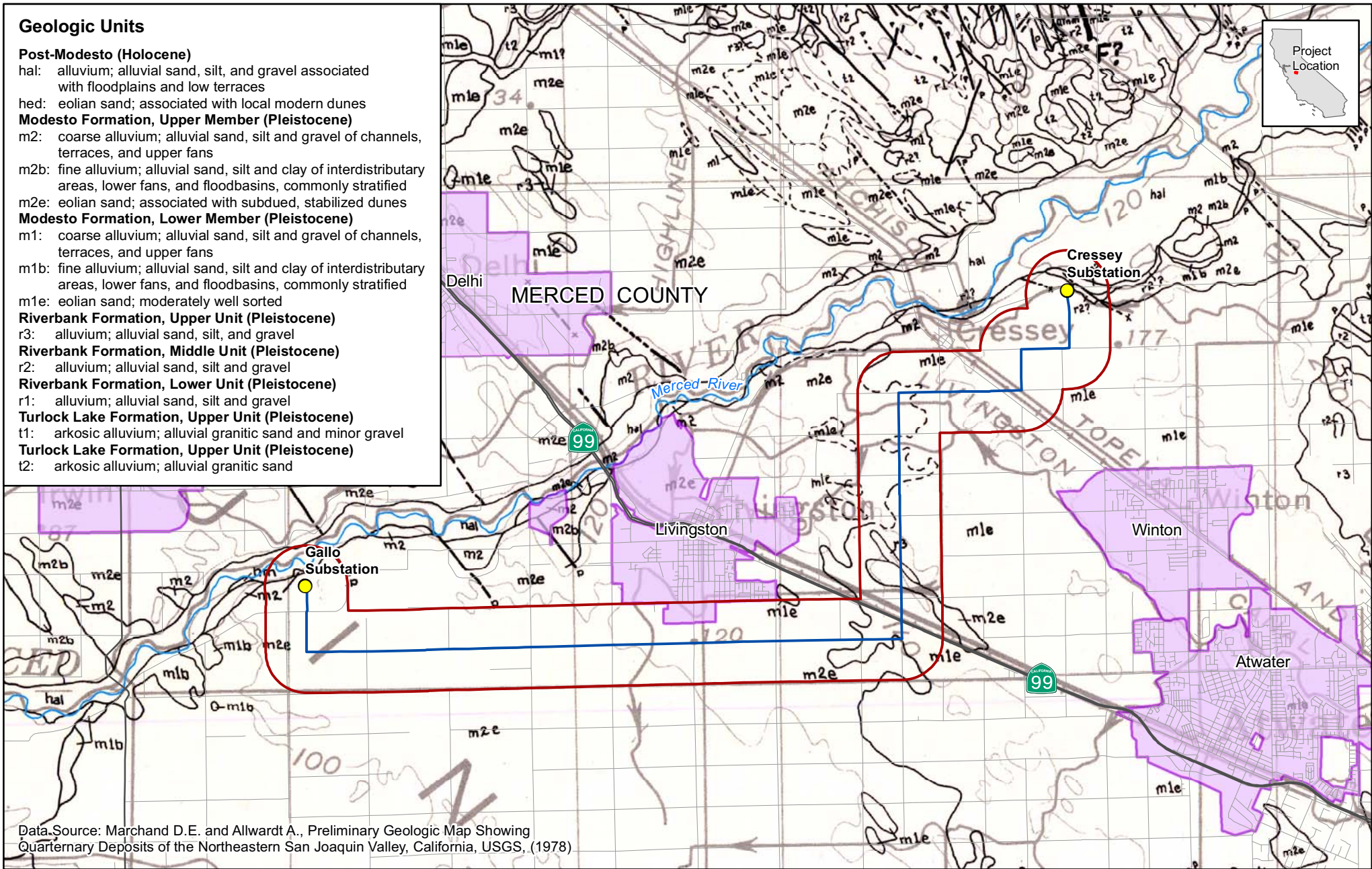
r1: alluvium; alluvial sand, silt and gravel

Turlock Lake Formation, Upper Unit (Pleistocene)

t1: arkosic alluvium; alluvial granitic sand and minor gravel

Turlock Lake Formation, Upper Unit (Pleistocene)

t2: arkosic alluvium; alluvial granitic sand



Data Source: Marchand D. E. and Allwardt A., Preliminary Geologic Map Showing Quaternary Deposits of the Northeastern San Joaquin Valley, California, USGS, (1978)

- Substation
- Cressey-Gallo Power Line Route
- Half-mile Radius Around Power Line Route
- City Boundary
- State Highway
- Road
- ~ River






FIGURE 3.6-2
Geologic Map
Cressey-Gallo 115 kV
Power Line Project

0 1 2 Miles
Scale: 1:100,000





 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

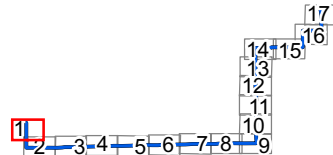
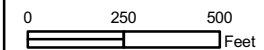





FIGURE 3.6-3 Map 1 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

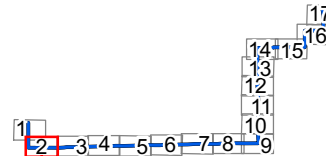
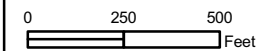


FIGURE 3.6-3 Map 2 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



- Substation
 - Cressey-Gallo Power Line Route
 - Soil Unit
- Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

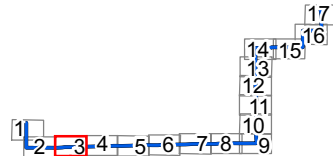
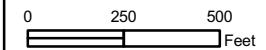





FIGURE 3.6-3 Map 3 of 17
Soils Map
Cressey-Gallo 115 kV
Power Line Project



Scale:
 1:6,000



 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

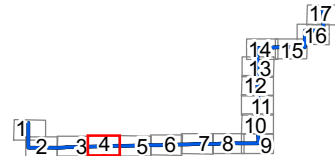
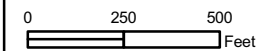
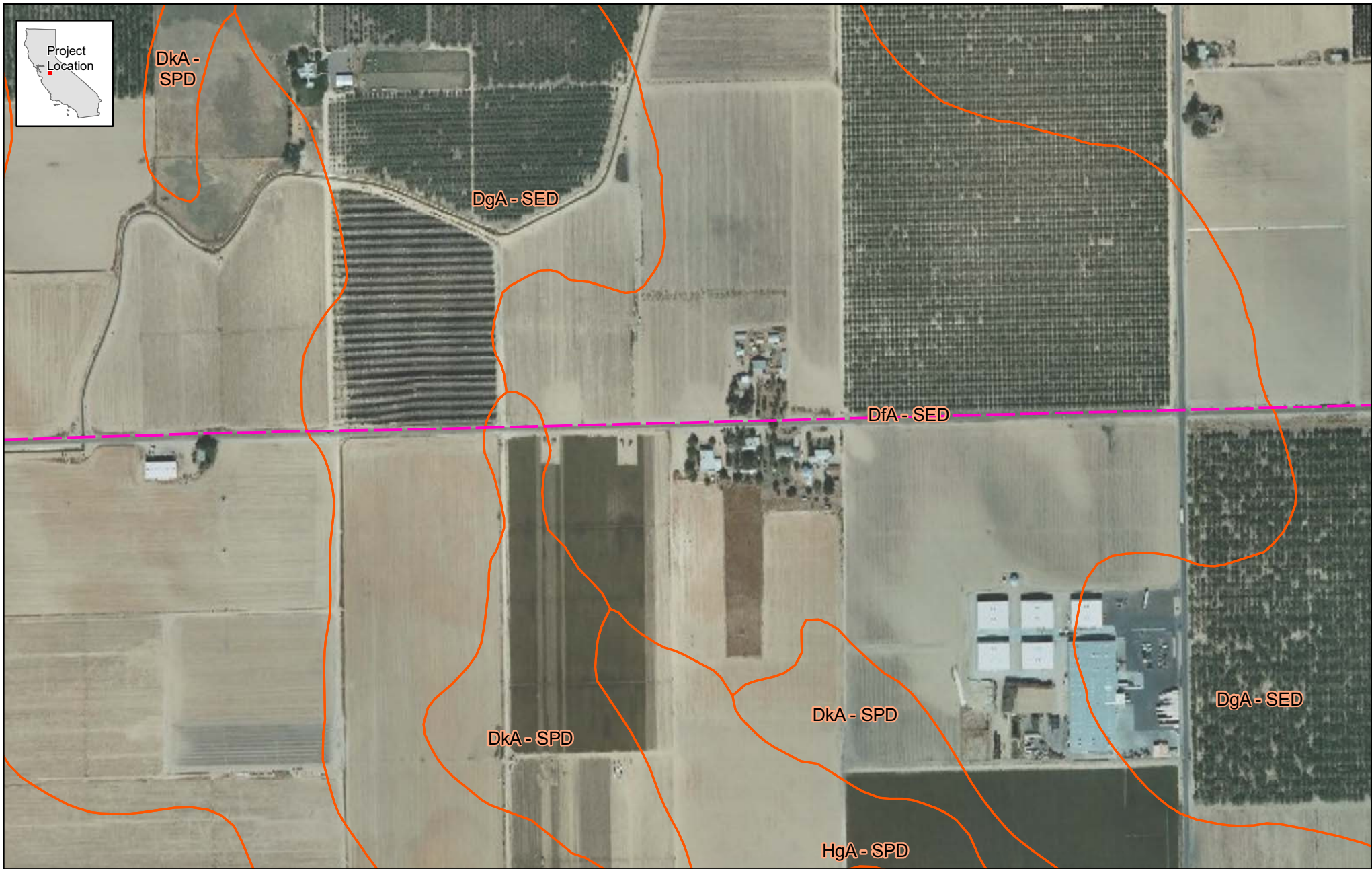





FIGURE 3.6-3 Map 4 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

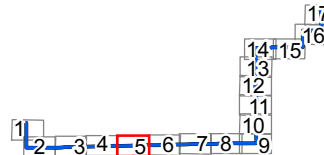
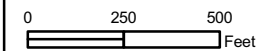
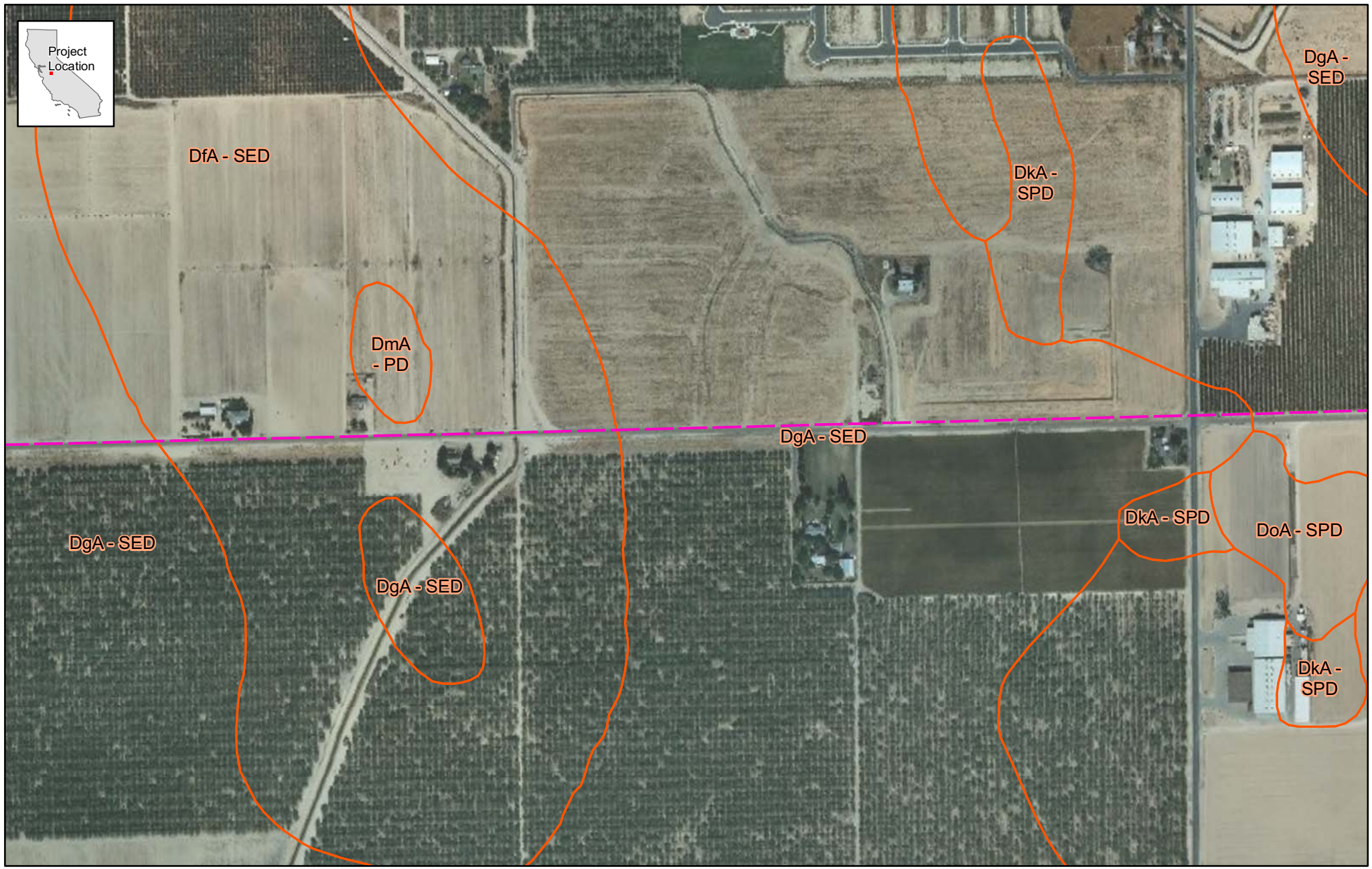





FIGURE 3.6-3 Map 5 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

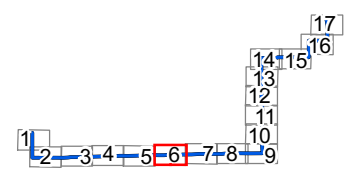

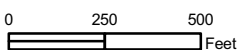
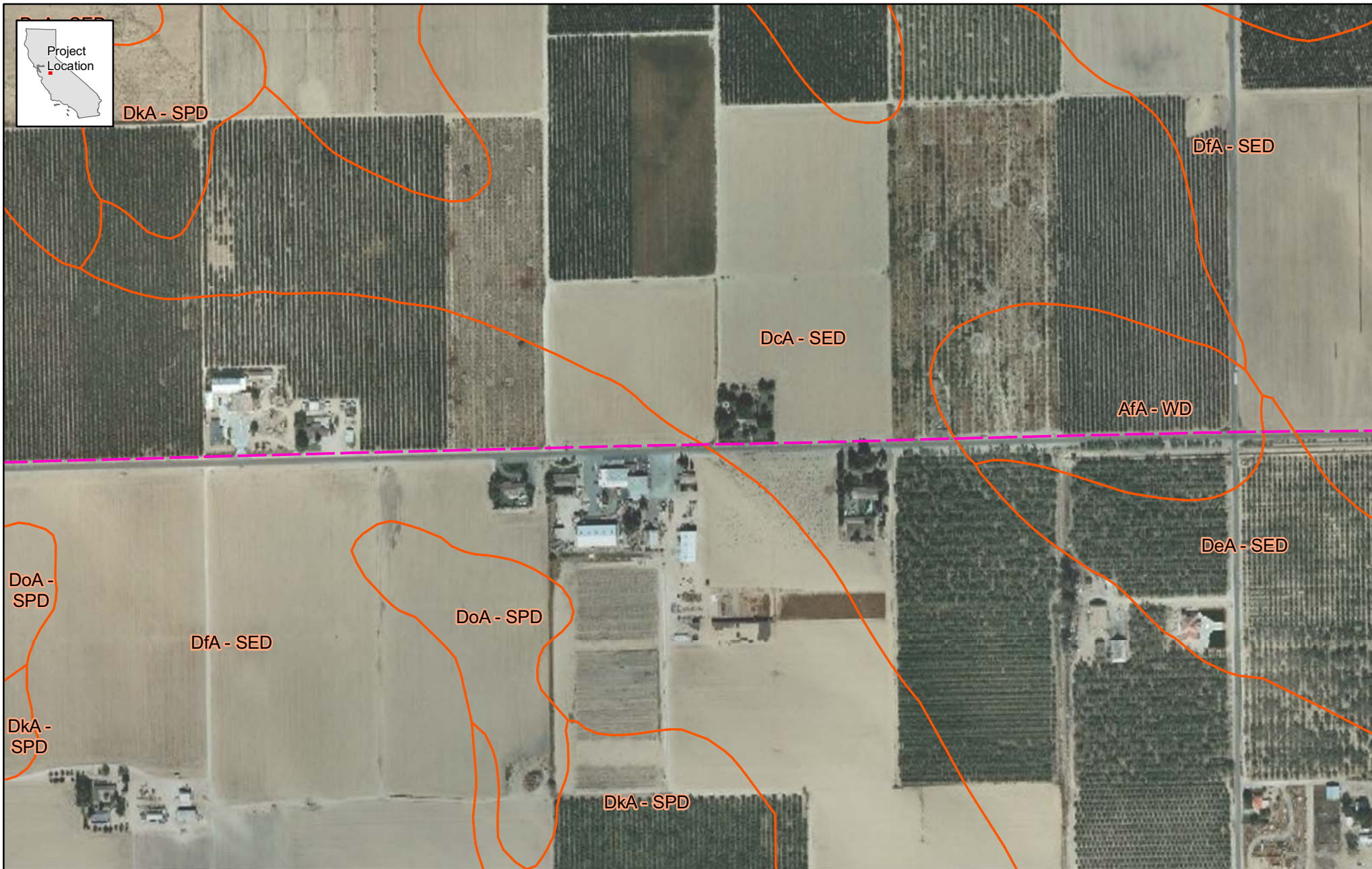


FIGURE 3.6-3 Map 6 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project


 Scale: 1:6,000




● Substation
— Cressey-Gallo Power Line Route
○ Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

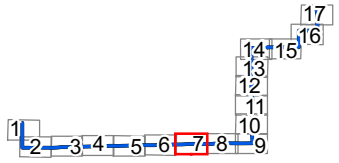
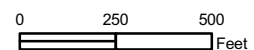
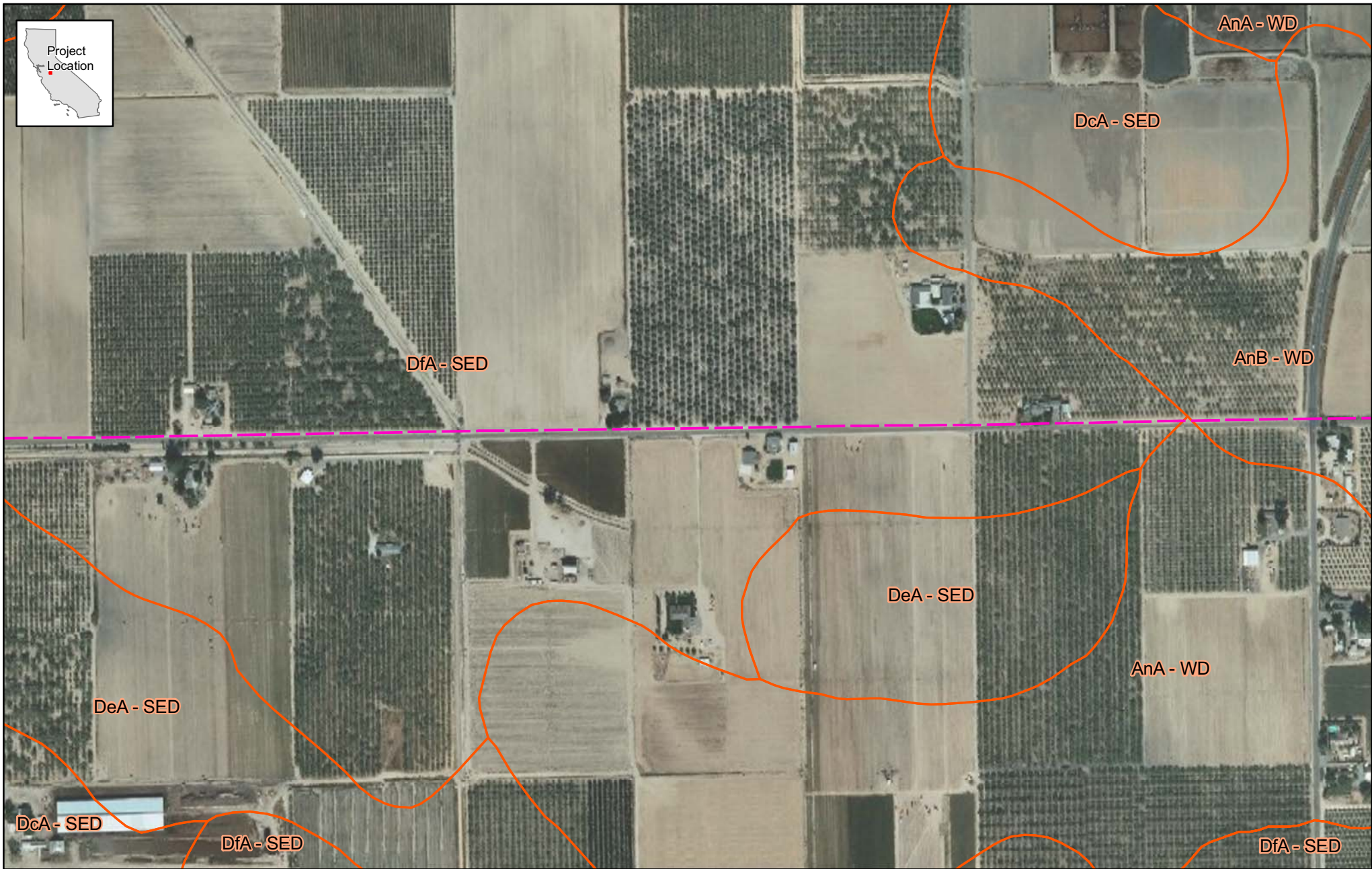





FIGURE 3.6-3 Map 7 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project

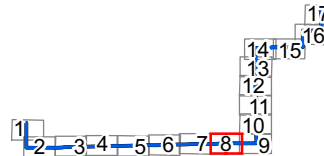


N
 Scale:
 1:6,000



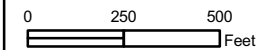
 Substation
 Cressey - Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey
 Geographic (SSURGO) database for
 Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

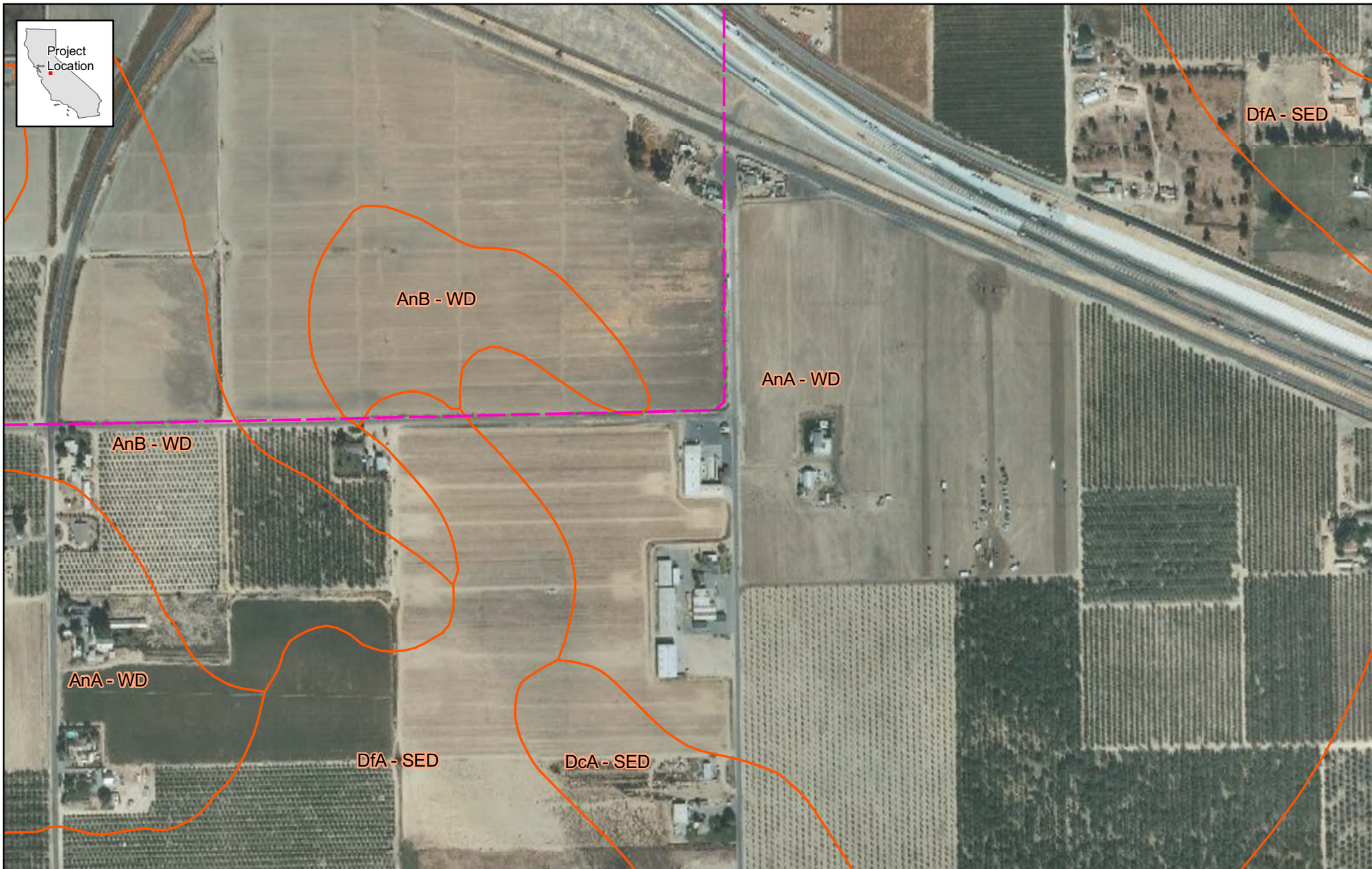






 Rev. 5: 11/08/2011

FIGURE 3.6-3 Map 8 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey
 Geographic (SSURGO) database for
 Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

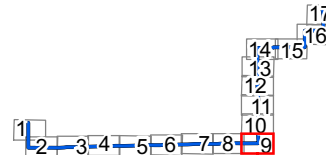
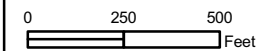
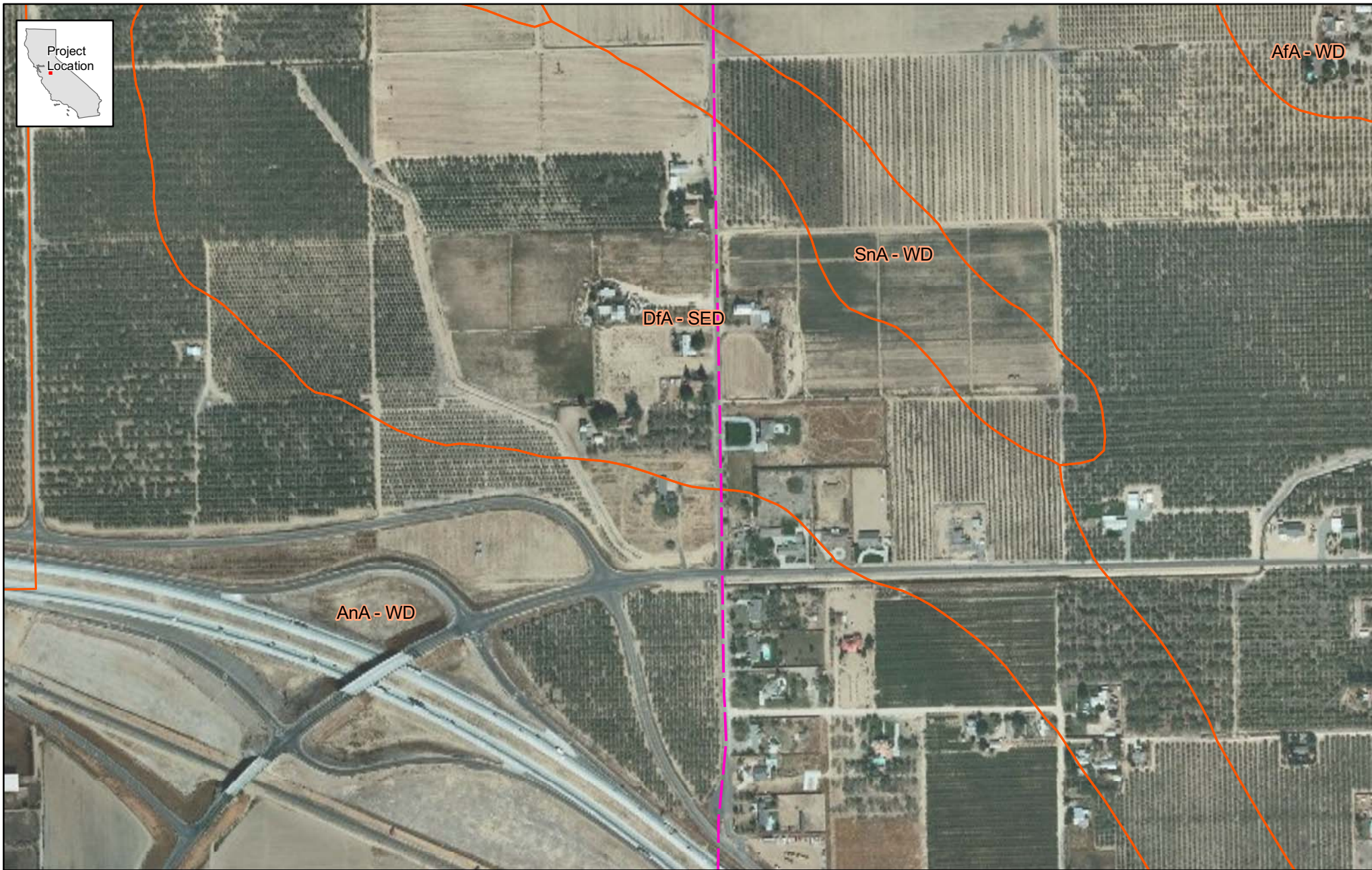





FIGURE 3.6-3 Map 9 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

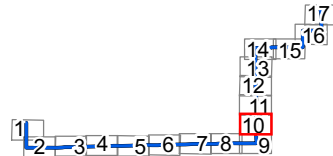
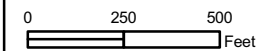
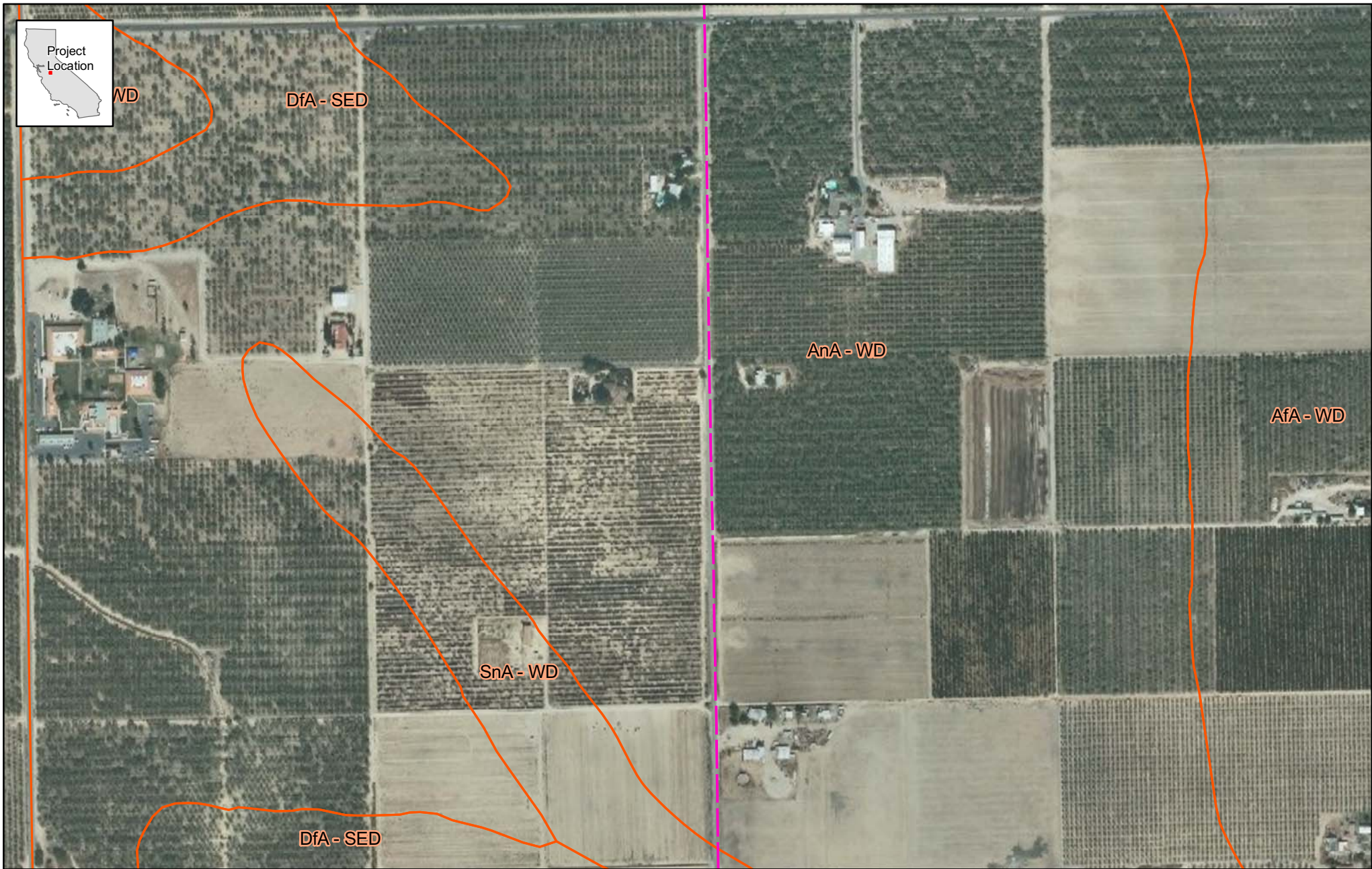





FIGURE 3.6-3 Map 10 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

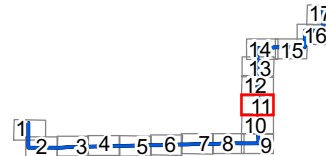
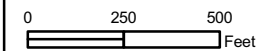
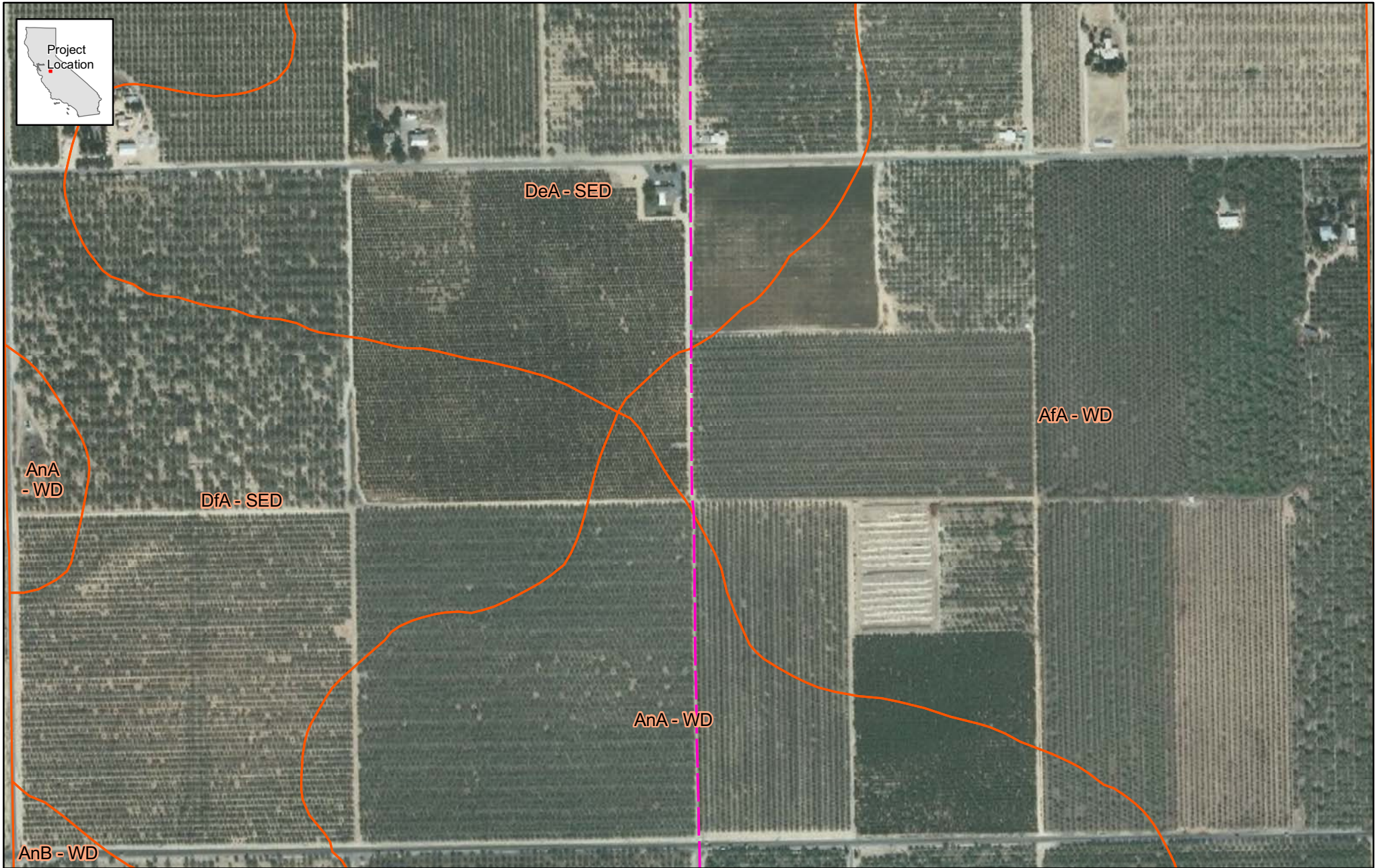


FIGURE 3.6-3 Map 11 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



- Substation
 - Cressey-Gallo Power Line Route
 - Soil Unit
- Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD

Soil Unit ID Soil Drainage Class

See accompanying table for definitions.

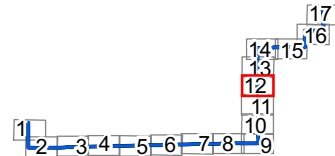
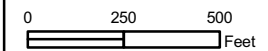
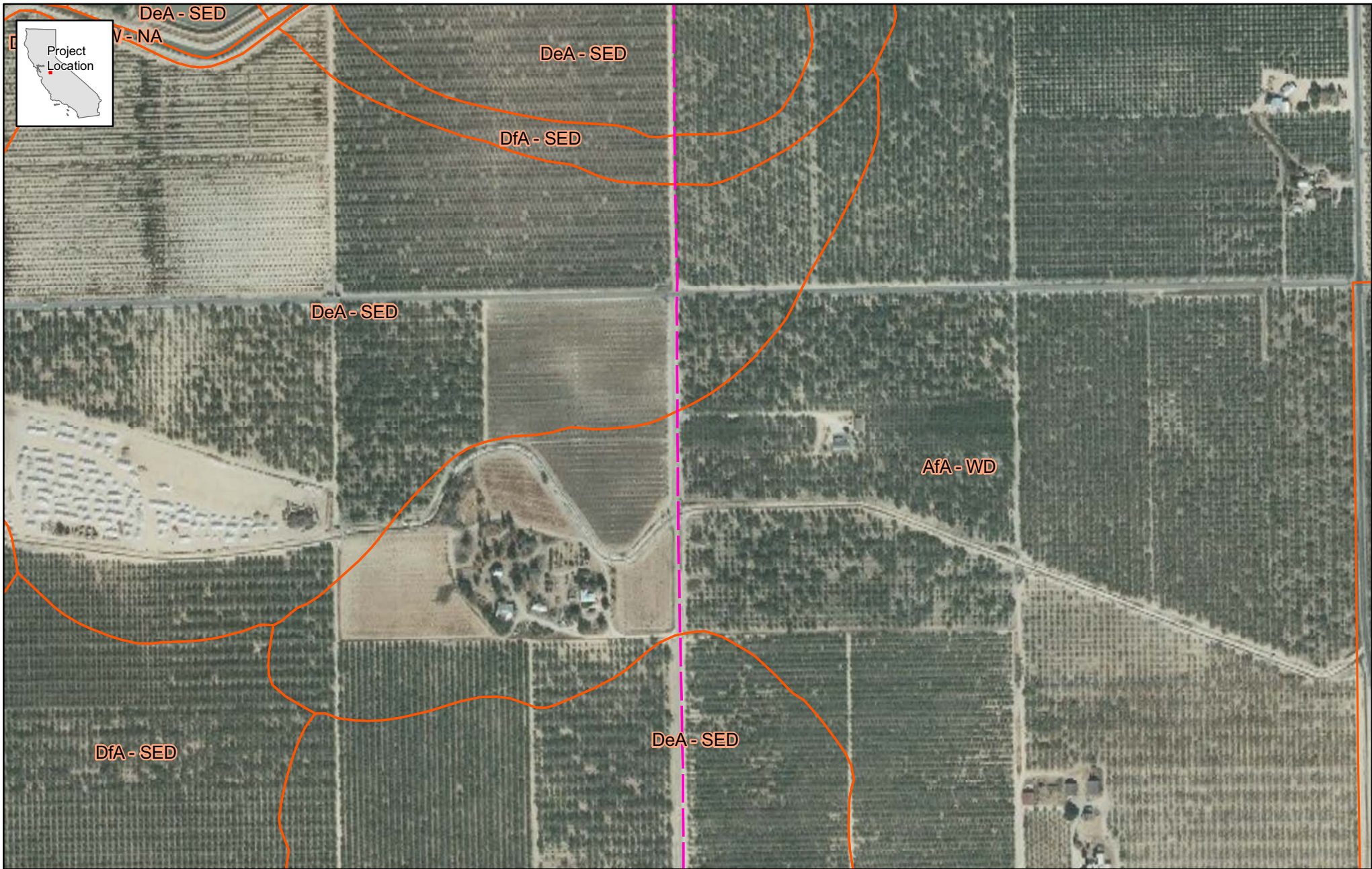


FIGURE 3.6-3 Map 12 of 17
Soils Map
Cressey-Gallo 115 kV
Power Line Project





- Substation
 - Cressey-Gallo Power Line Route
 - Soil Unit
- Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD

Soil Unit ID	Soil Drainage Class
--------------	---------------------

See accompanying table for definitions.

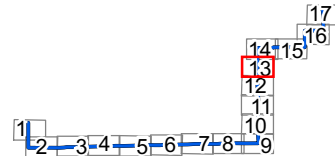
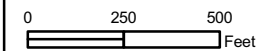
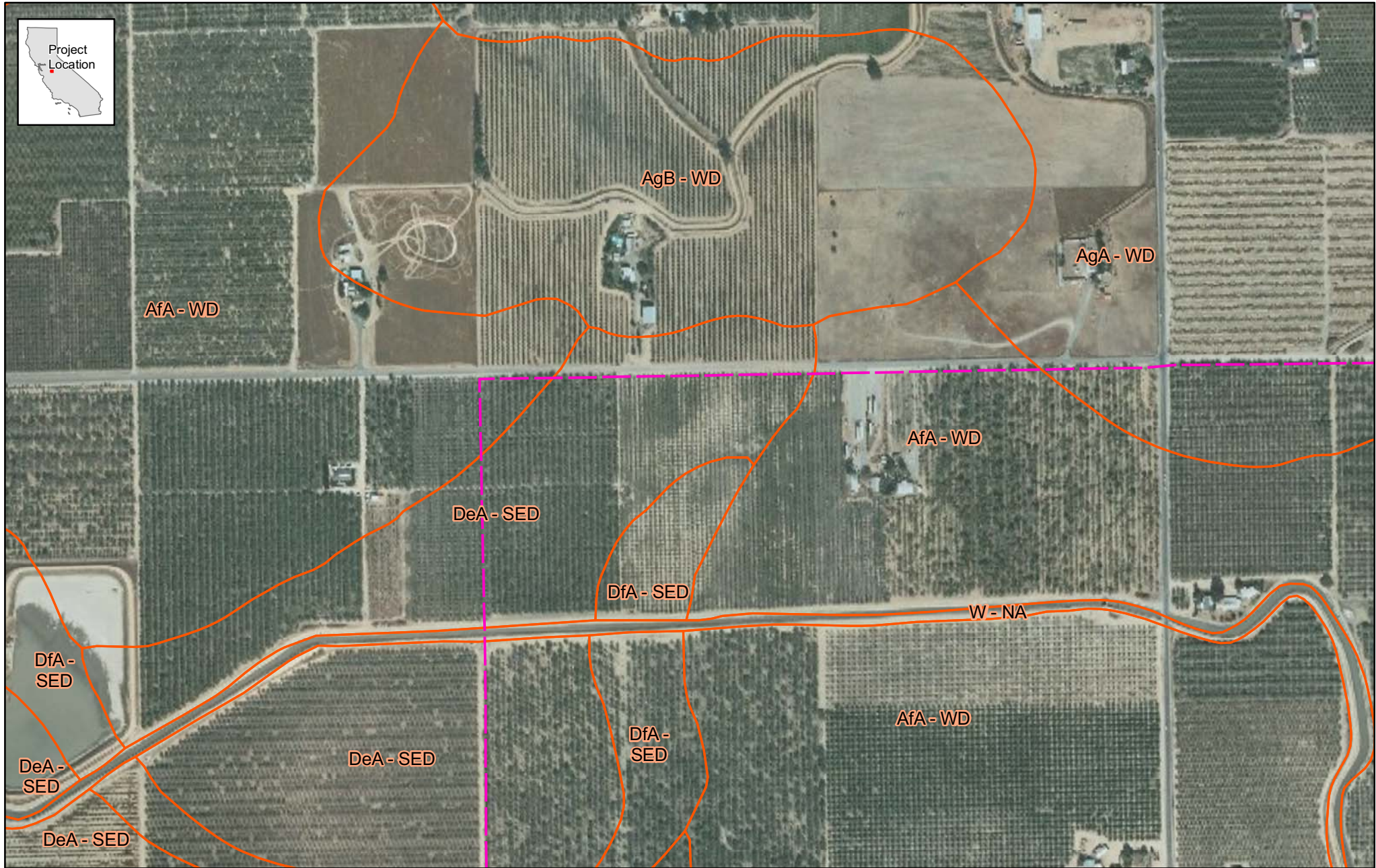





FIGURE 3.6-3 Map 13 of 17
Soils Map
Cressey-Gallo 115 kV
Power Line Project





 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

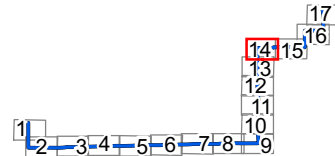
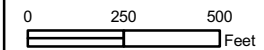


FIGURE 3.6-3 Map 14 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



- Substation
 - Cressey-Gallo Power Line Route
 - Soil Unit
- Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

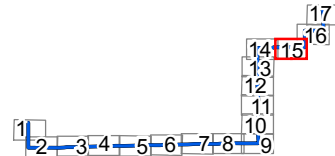
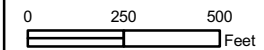
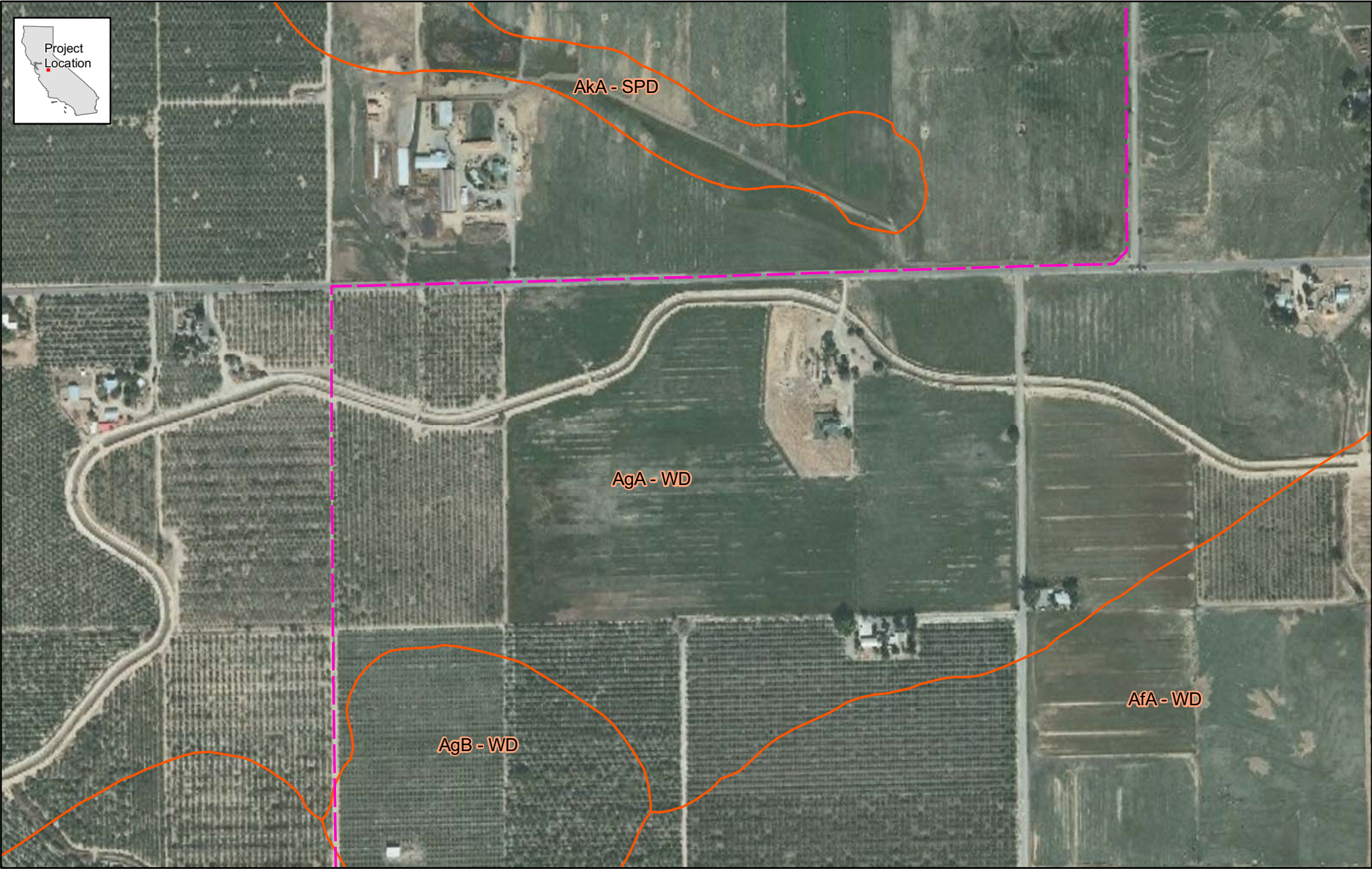





FIGURE 3.6-3 Map 15 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project



Scale:
 1:6,000



 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

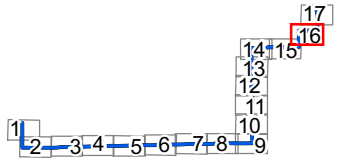
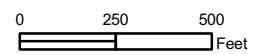
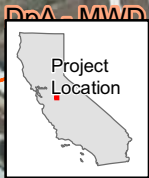
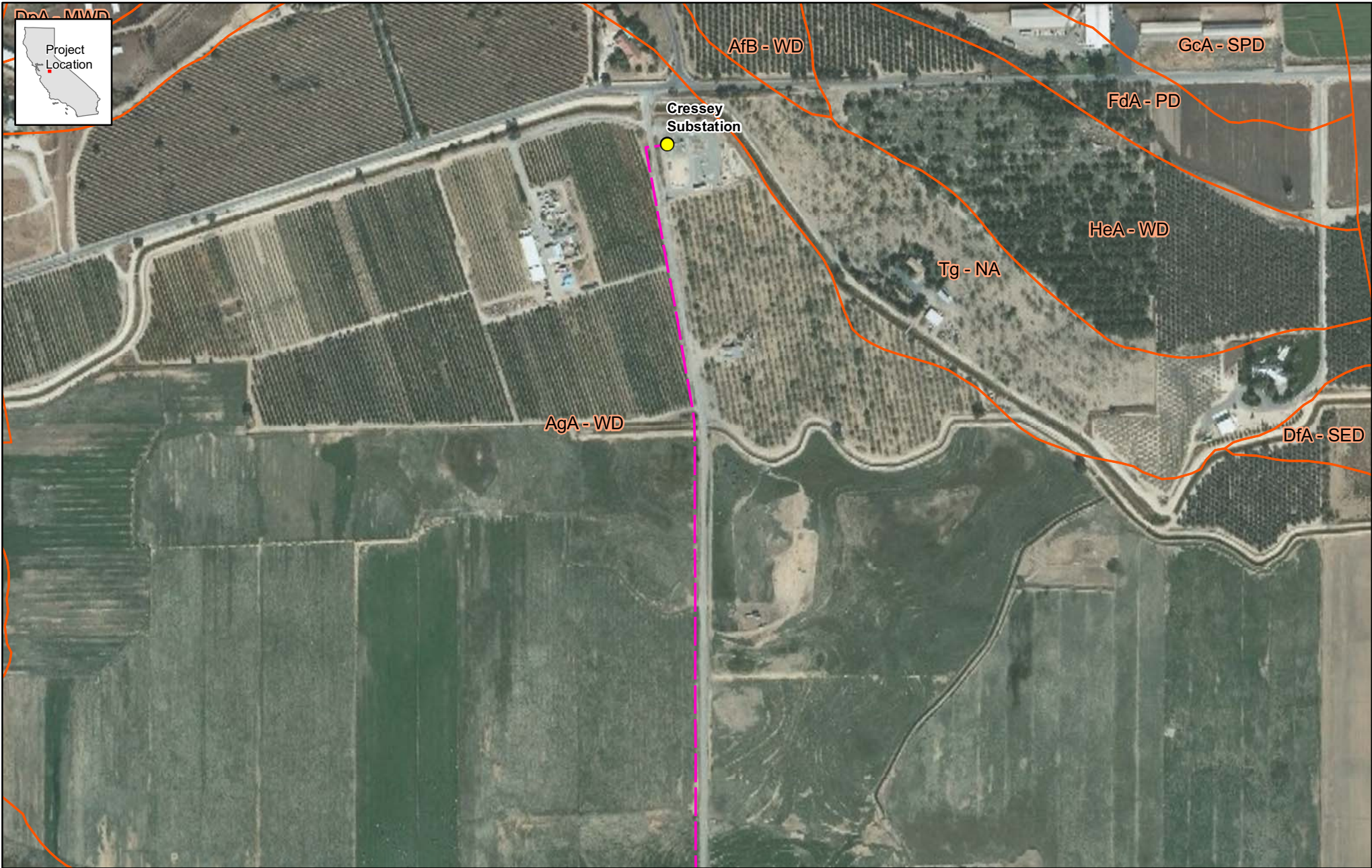





FIGURE 3.6-3 Map 16 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



 Substation
 Cressey-Gallo Power Line Route
 Soil Unit
 Data Source: NRCS Soil Survey Geographic (SSURGO) database for Merced Area, California, (2008)

AfA - WD
 Soil Unit ID Soil Drainage Class
 See accompanying table for definitions.

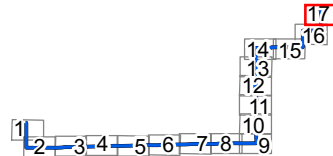
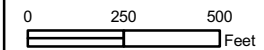
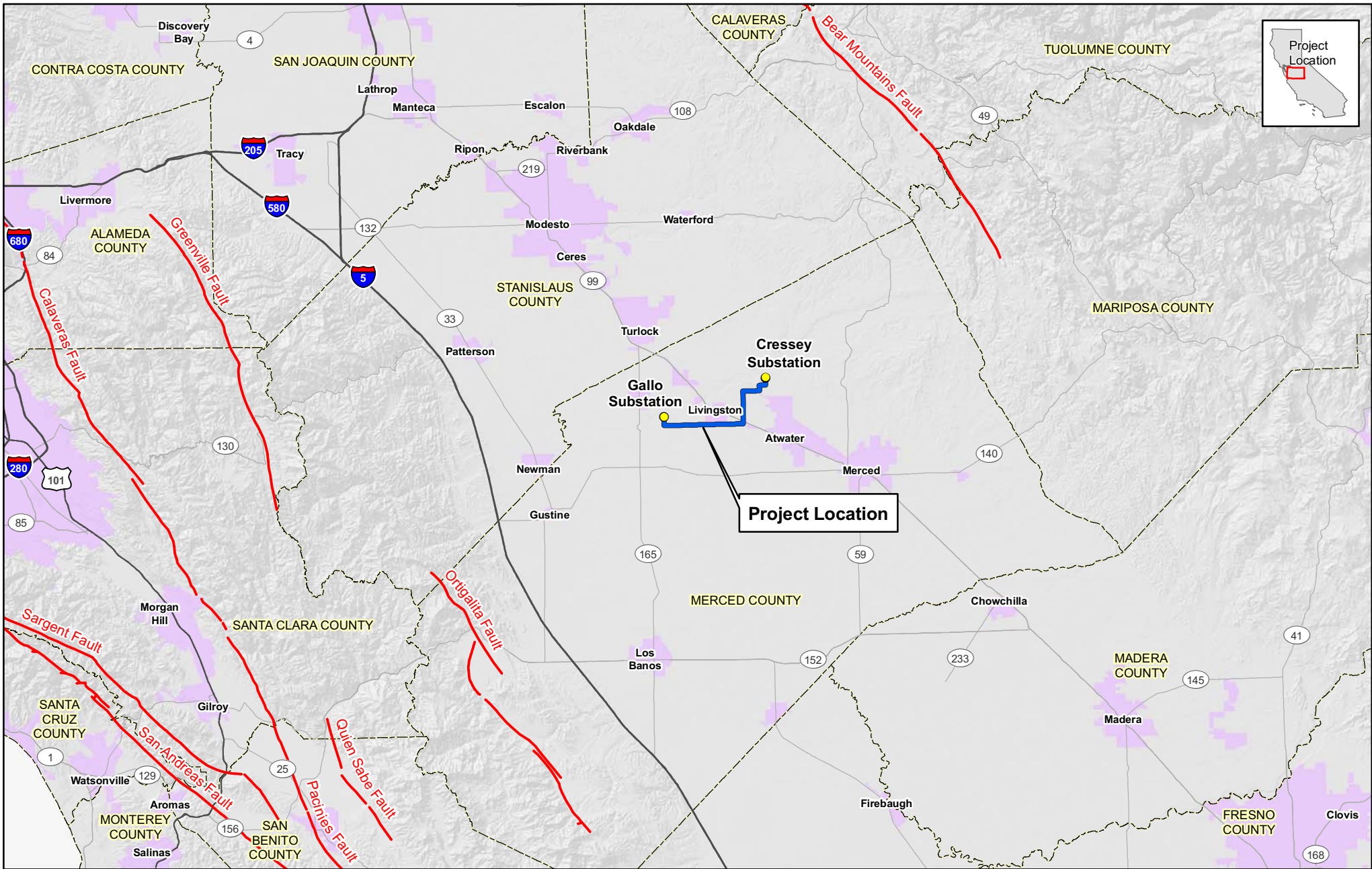


FIGURE 3.6-3 Map 17 of 17
 Soils Map
 Cressey-Gallo 115 kV
 Power Line Project




 Scale:
 1:6,000



- Substation
- Cressey-Gallo Power Line Route
- Faults
- Interstate
- U.S Highway
- State Highway
- + Urban Area
- County Boundary

Data Source: Bryant, W. A. (compiler). 2005. Digital Database of Quaternary and Younger Faults from the Fault Activity Map of California, version 2.0. California Geological Survey.



FIGURE 3.6-4
 Fault Map
 Cressey-Gallo 115 kV
 Power Line Project

0 5 10
 Miles

N
 Scale:
 1:750,000