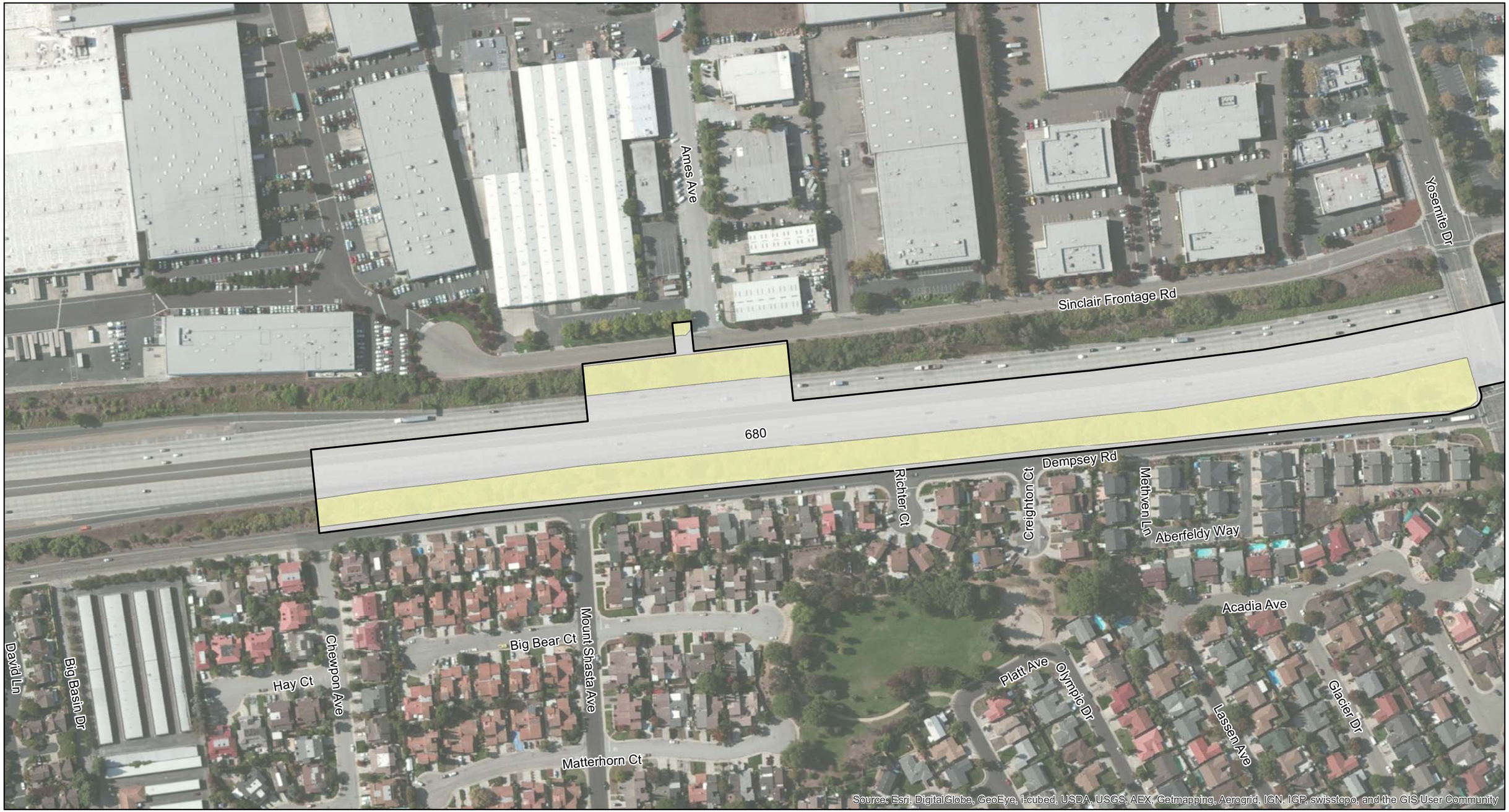
APPENDIX I

Land Cover Types in the Biological Study Area



Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

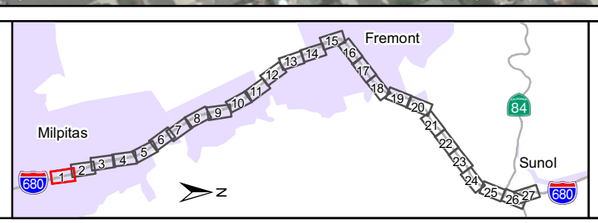
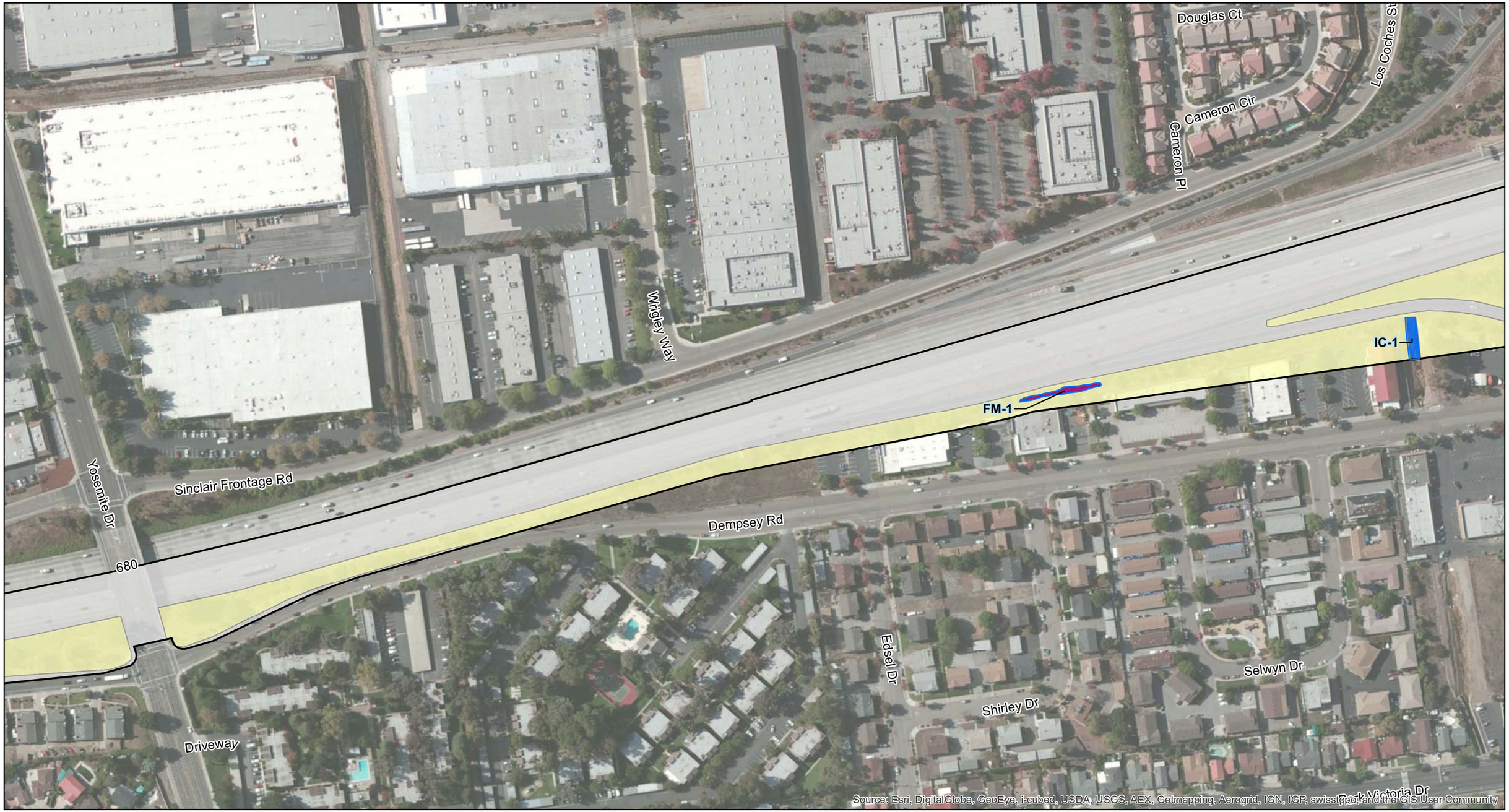


Figure 3:
Vegetation and Landcover Types
I-680 Northbound HOV/Express Lane Project
Map 1 of 27
0 100 200 Feet
Scale 1:2,400



Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
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- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

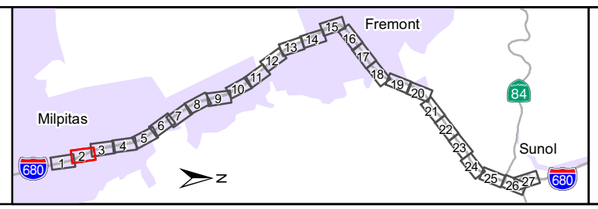

Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 2 of 27

0 100 200 Feet

Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

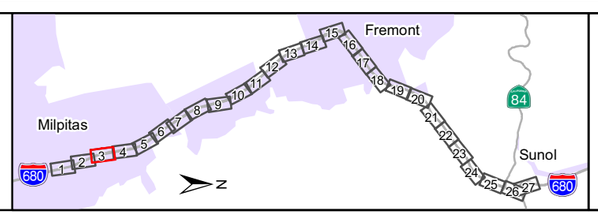

Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 3 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

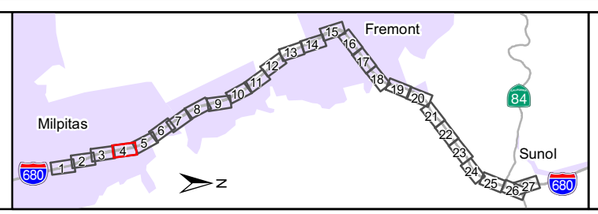

Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 4 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

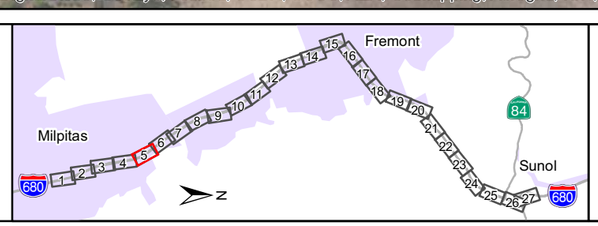

Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 5 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

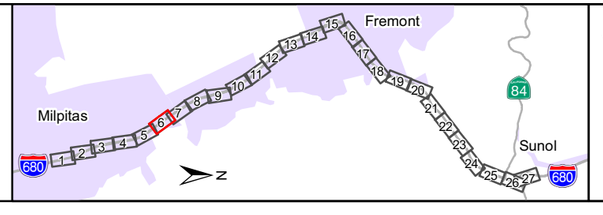

Figure 3:
Vegetation and Landcover Types
I-680 Northbound HOV/Express Lane Project
Map 6 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

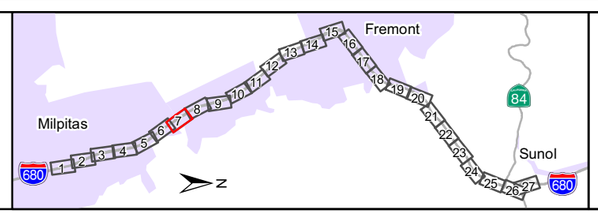

Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 7 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

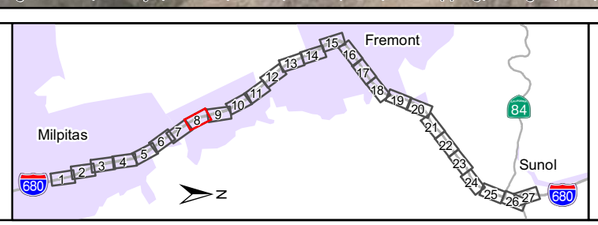

Figure 3:
Vegetation and Landcover Types
I-680 Northbound HOV/Express Lane Project
Map 8 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

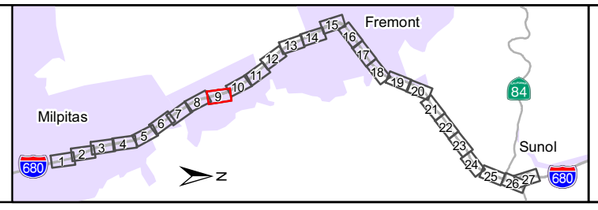

Figure 3:
Vegetation and Landcover Types
I-680 Northbound HOV/Express Lane Project
Map 9 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

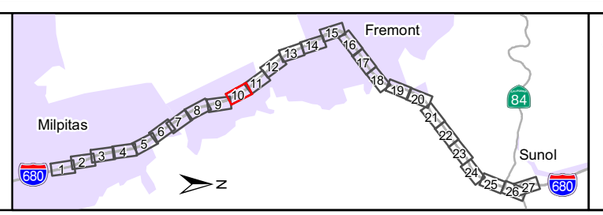

Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 10 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

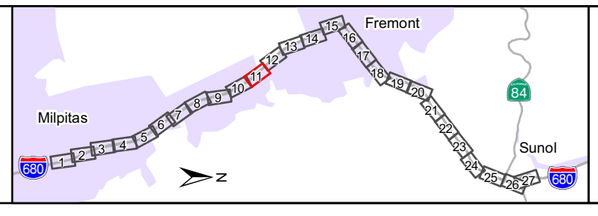

Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 11 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

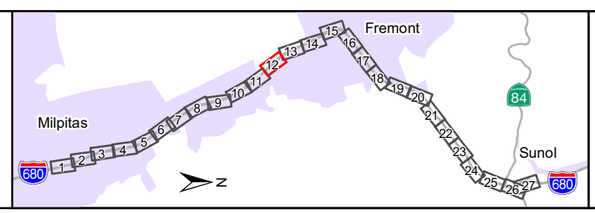

Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 12 of 27
0 100 200 Feet
Scale 1:2,400

Warm Springs Blvd
Osgood Rd
Prune Ave
Grimmer Blvd
680
SW-4
Pomace St
Pomace Ct
Camellia Dr
Camellia Ct
Night Shade Ln
Arbutus Ct
Primrose Ct
Lupine Pl
Phase 1
Future Phases
Parkmeadow Pl
Oliveria Pl
Parkmeadow Dr
Clematis Ct
Boxwood Way
Verbena Ct
Mandan Ct
Sparrow Dr
3.8
3.8
3.7
3.7
3.6
3.6
3.5
3.5
3.4
3.4
3.3
3.3

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
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- Valley oak woodland
- Eucalyptus groves
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- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

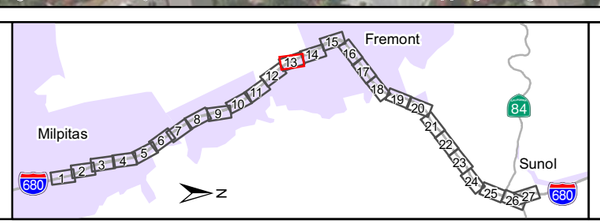

Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 13 of 27
0 100 200 Feet
Scale 1:2,400
N

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
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- Phase 1
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Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

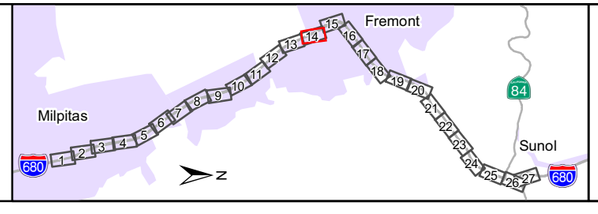
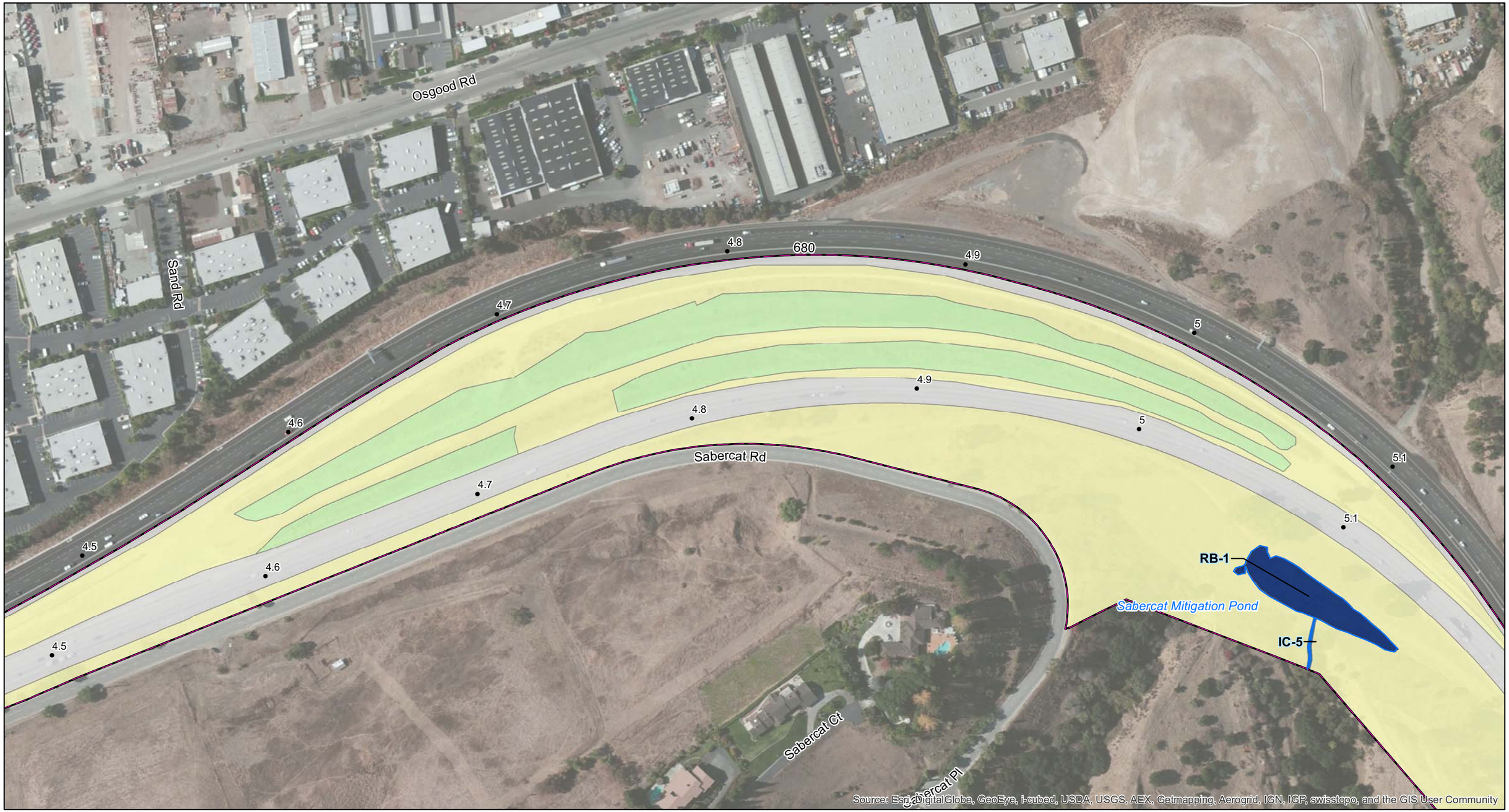


Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 14 of 27
0 100 200 Feet
Scale 1:2,400



Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
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- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

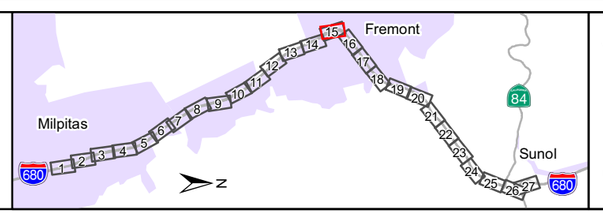


Figure 3:
Vegetation and Landcover Types
I-680 Northbound HOV/Express Lane Project
Map 15 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

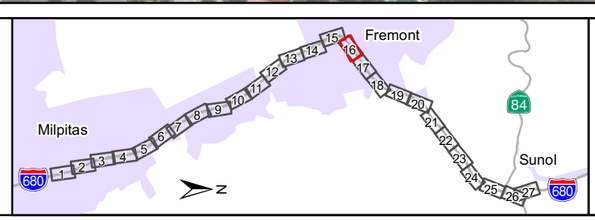


Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 16 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

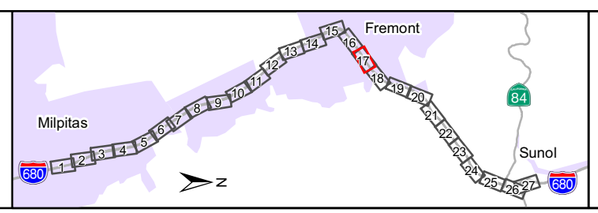


Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 17 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

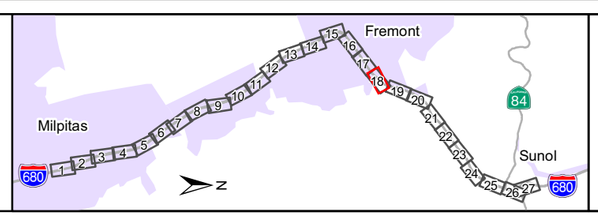


Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 18 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

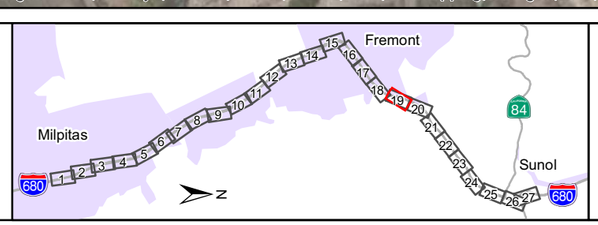
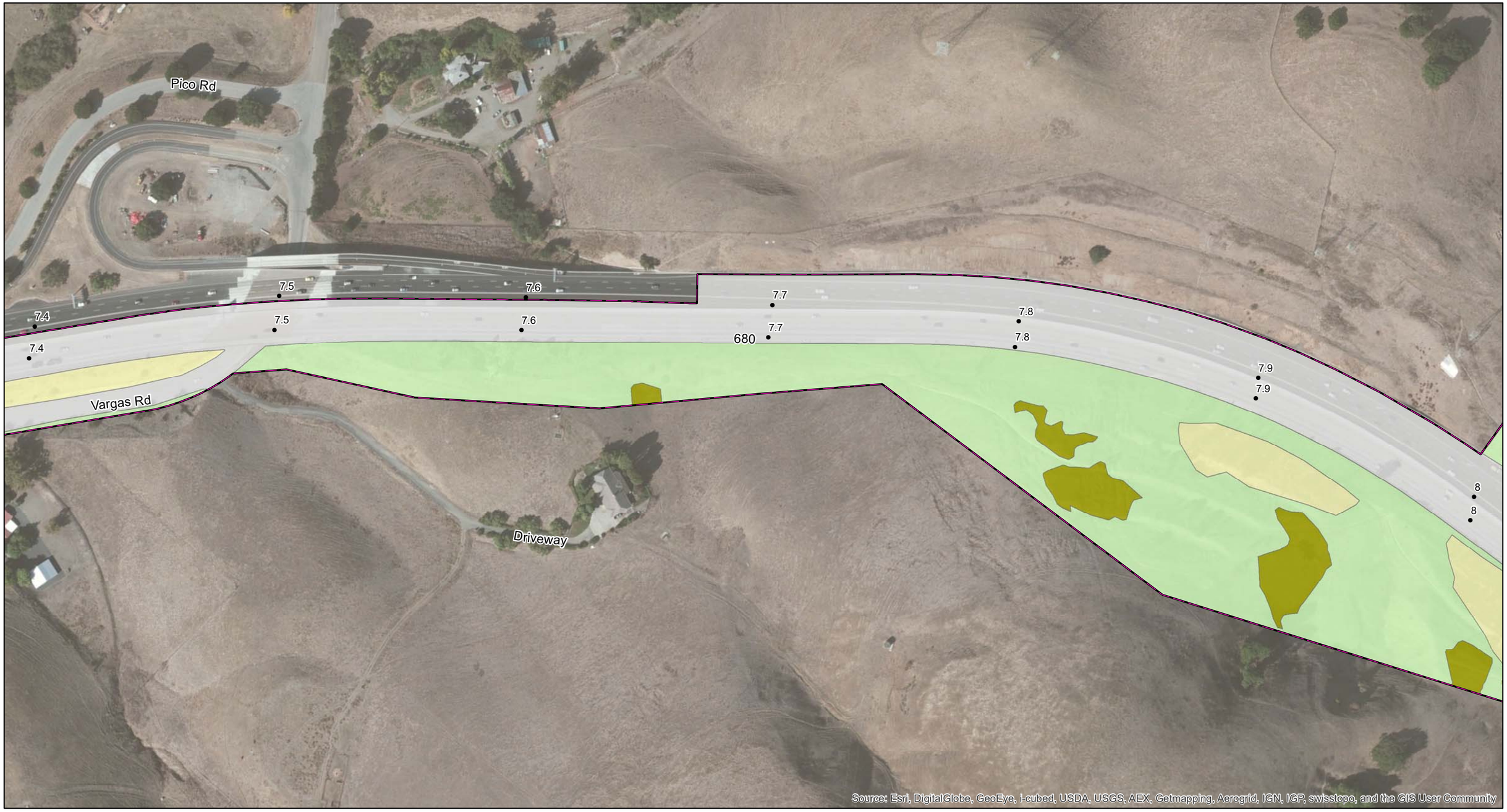


Figure 3:
Vegetation and Landcover Types
I-680 Northbound HOV/Express Lane Project
Map 19 of 27
0 100 200 Feet
Scale 1:2,400



Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

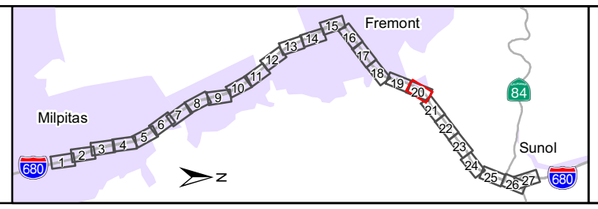


Figure 3:
Vegetation and Landcover Types
I-680 Northbound HOV/Express Lane Project
Map 20 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

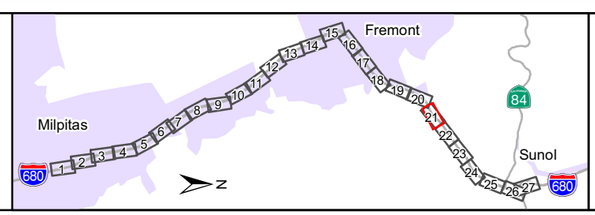


Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 21 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

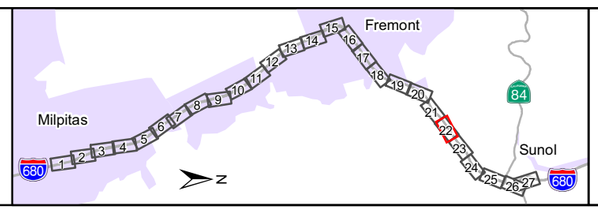


Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 22 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

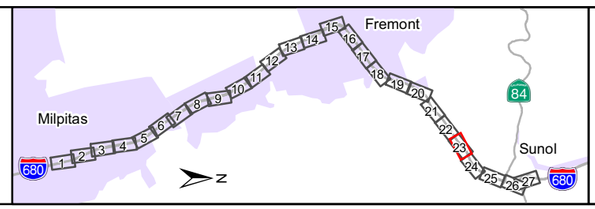


Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 23 of 27
0 100 200 Feet
Scale 1:2,400

Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

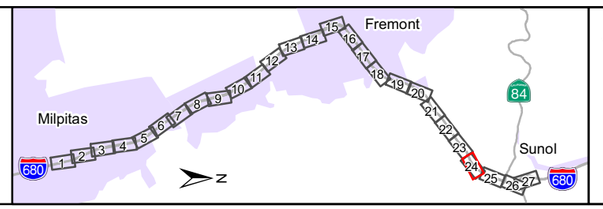
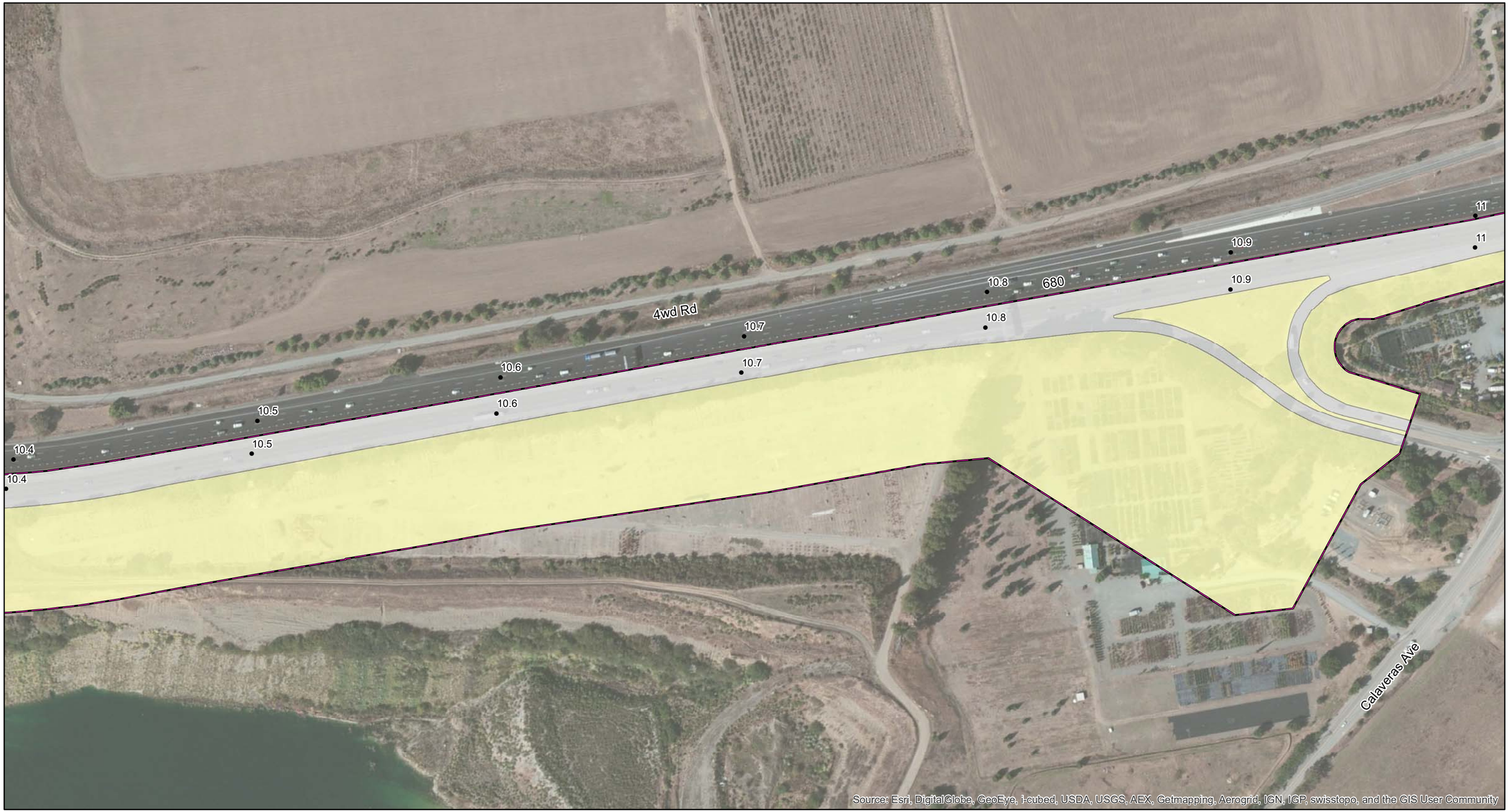


Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 24 of 27
0 100 200 Feet
Scale 1:2,400



Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

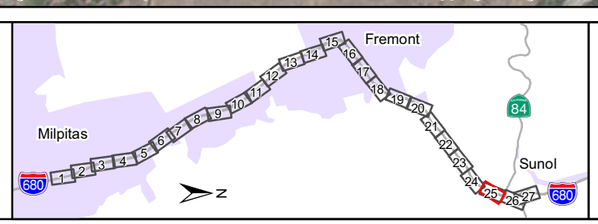
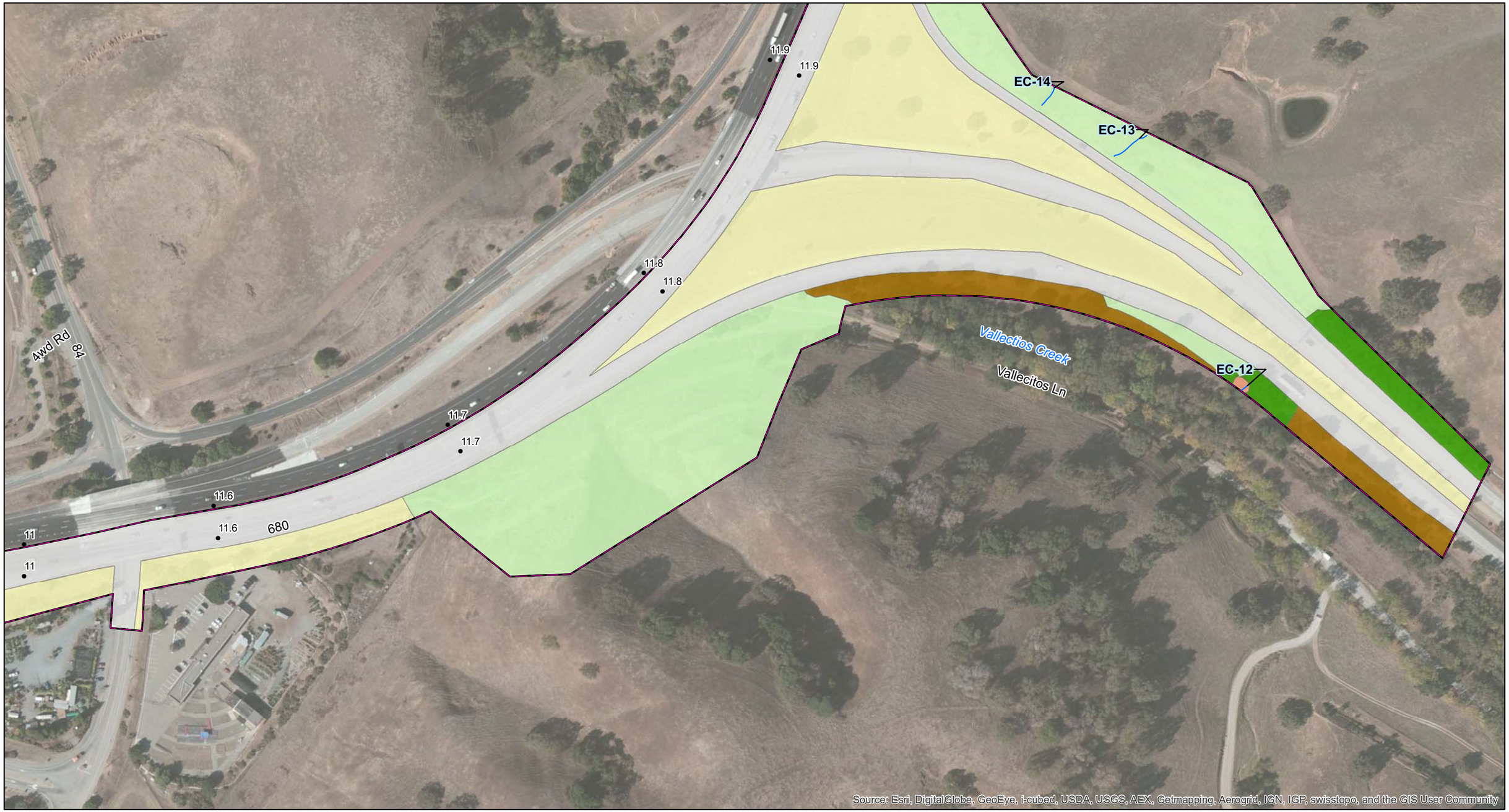


Figure 3:
Vegetation and Landcover Types
I-680 Northbound HOV/Express Lane Project
Map 25 of 27
0 100 200 Feet
Scale 1:2,400



Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

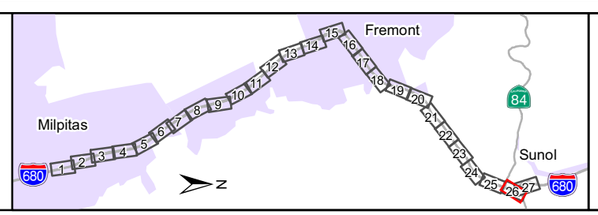
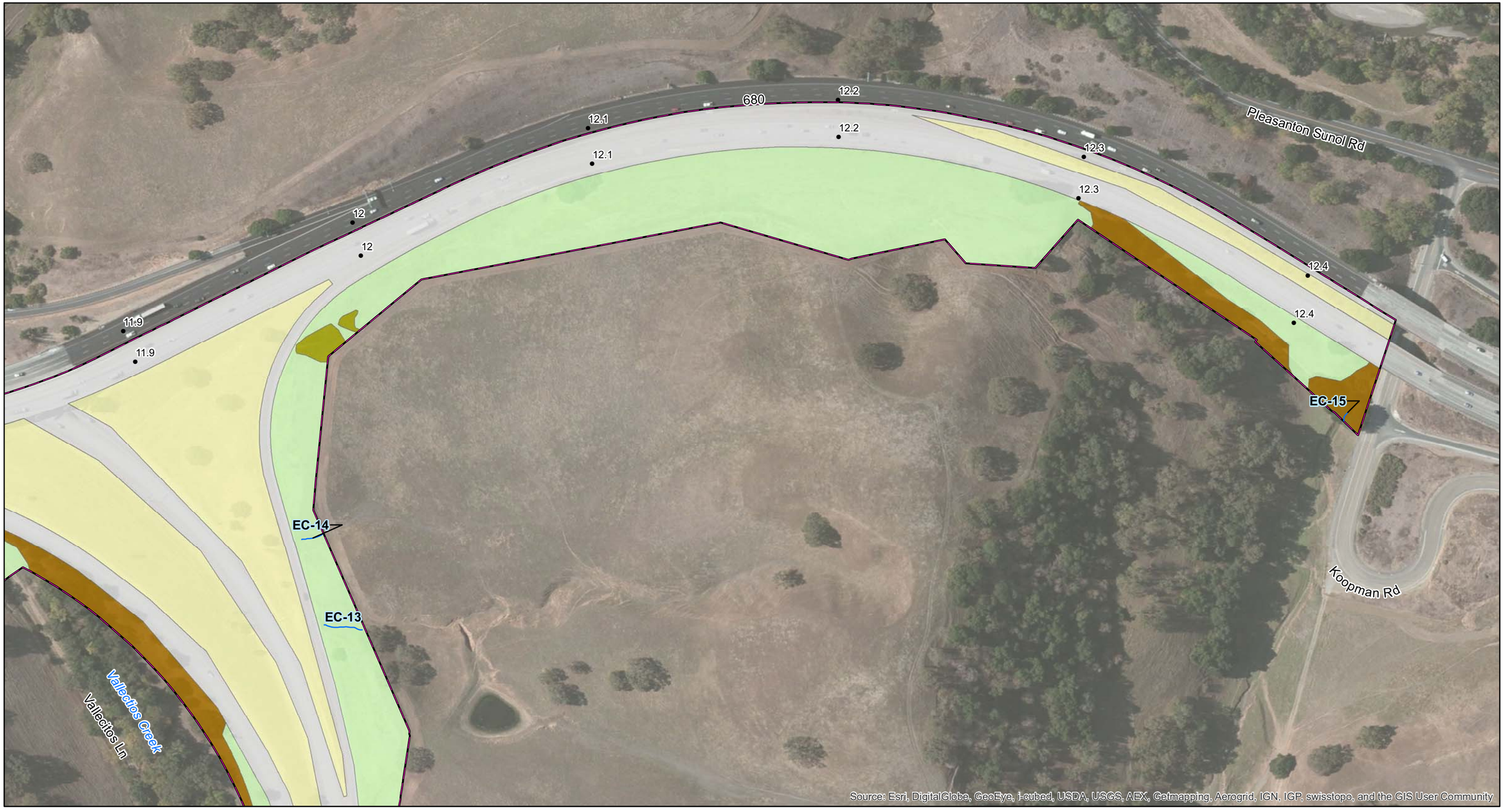


Figure 3:
Vegetation and Landcover Types
I-680 Northbound HOV/Express Lane Project
Map 26 of 27
0 100 200 Feet
Scale 1:2,400



Vegetation and Landcover Types

- Mediterranean California naturalized annual and perennial grassland
- Creeping rye grass turfs
- Coyote brush scrub
- Arroyo willow thickets
- Sandbar willow thickets
- Coast live oak woodland
- California sycamore woodlands
- Valley oak woodland
- Eucalyptus groves
- Creek
- Retention basin
- Cattail marshes
- Iris-leaf rush seeps
- Urban/Landscaped
- Road
- Biological Study Area (Build Alternative)
- Phase 1
- Wetland or Water Feature

Vegetation Typed as: (Sawyer, Keeler-Wolf, and Evens 2009)

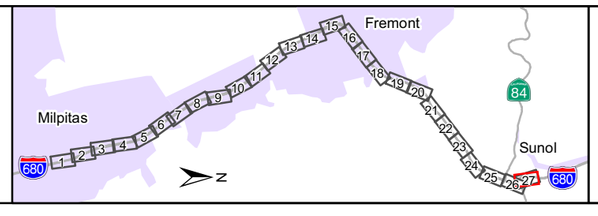


Figure 3:
Vegetation and Landcover Types
I-680 Northbound
HOV/Express Lane Project
Map 27 of 27
0 100 200 Feet
Scale 1:2,400

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