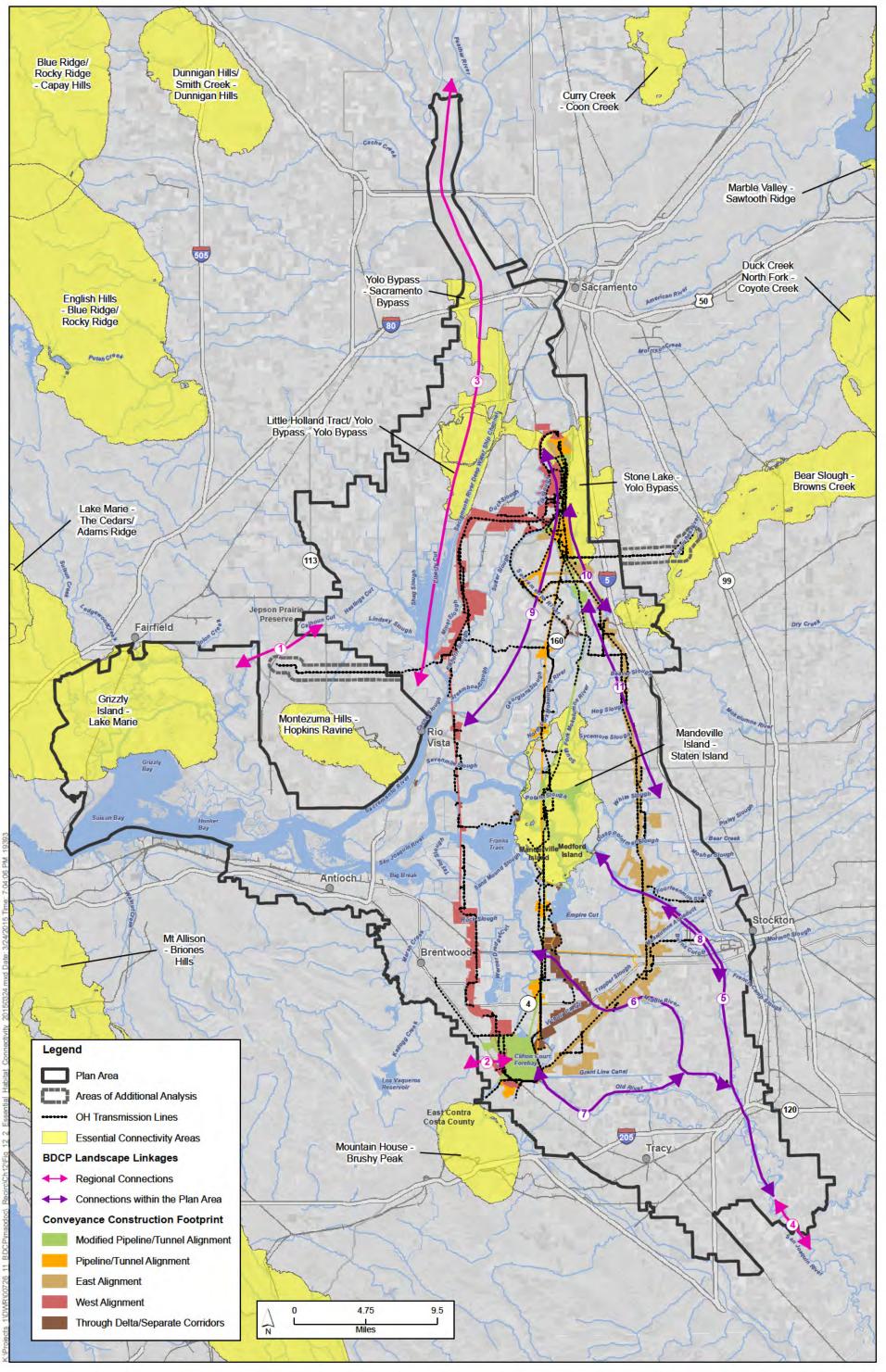
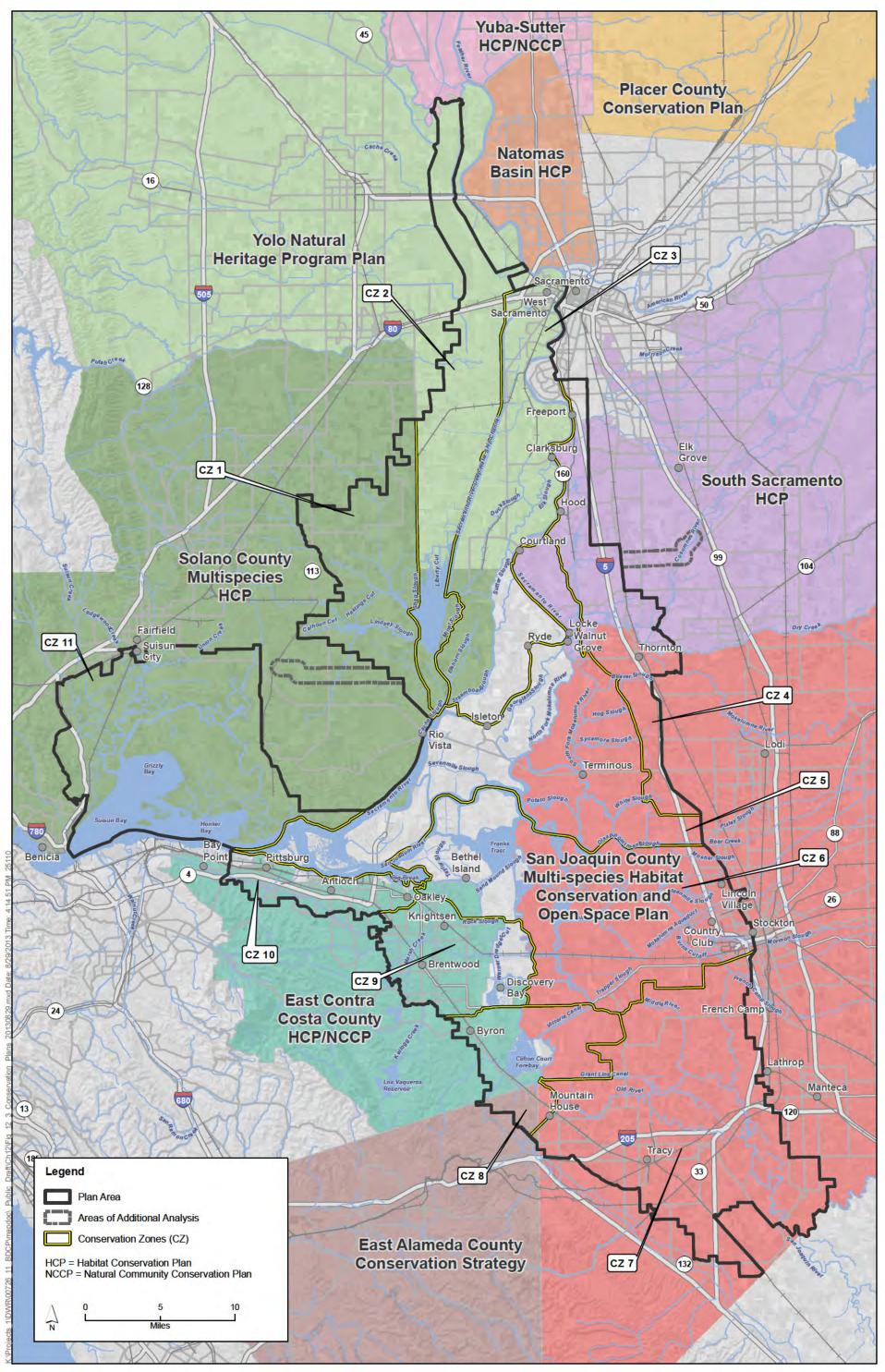


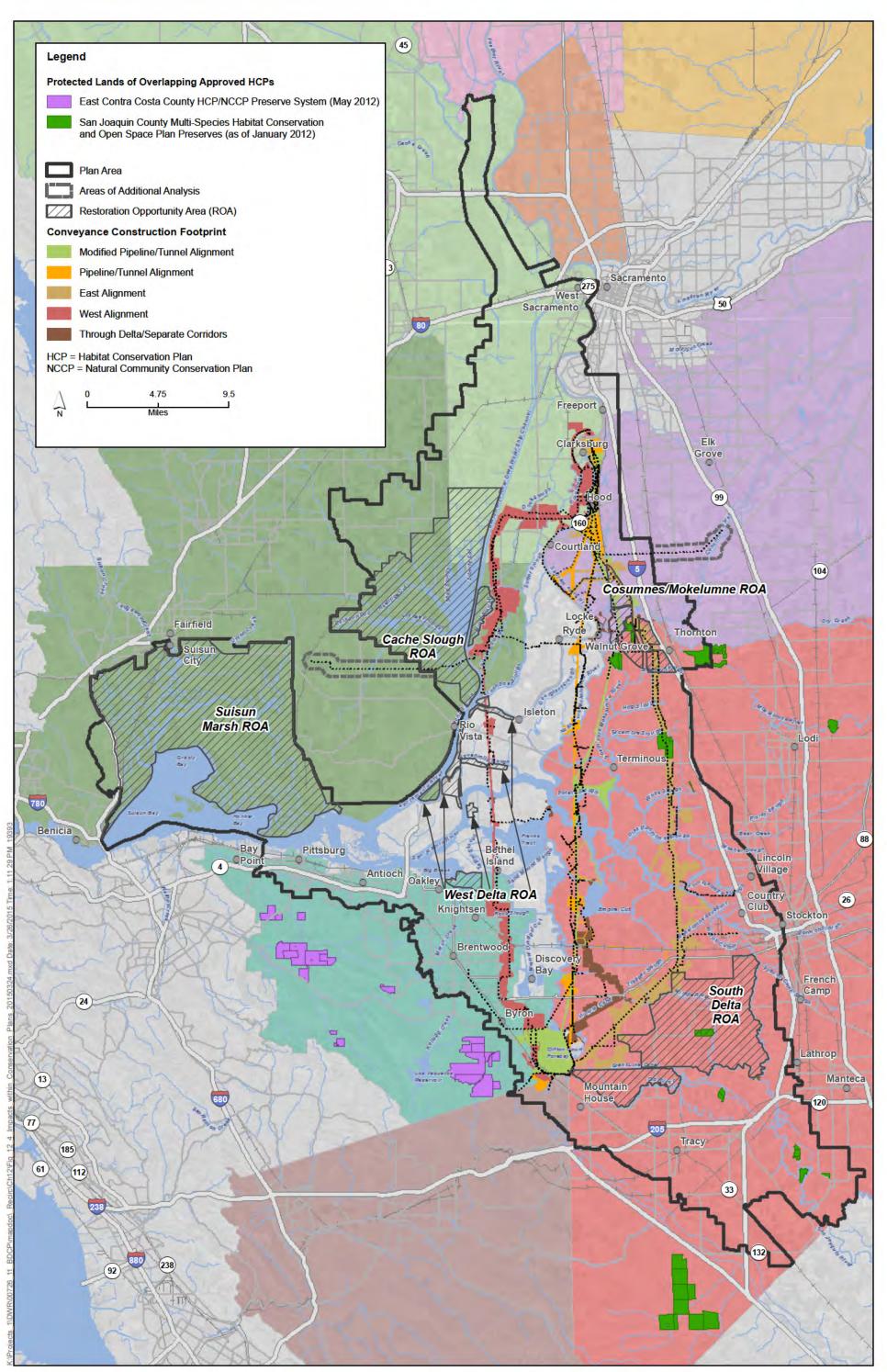
Sources: Plan Area, ICF 2012; Areas of Additional Analysis, ICF 2012; Restoration Opportunity Areas, SAIC 2011; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 2b), DHCCP DWR 2013, Constructability (Rev 5a), DHCCP DWR 2015; Conservation Zones, SAIC 2012; Natural Communites, ICF 2013.

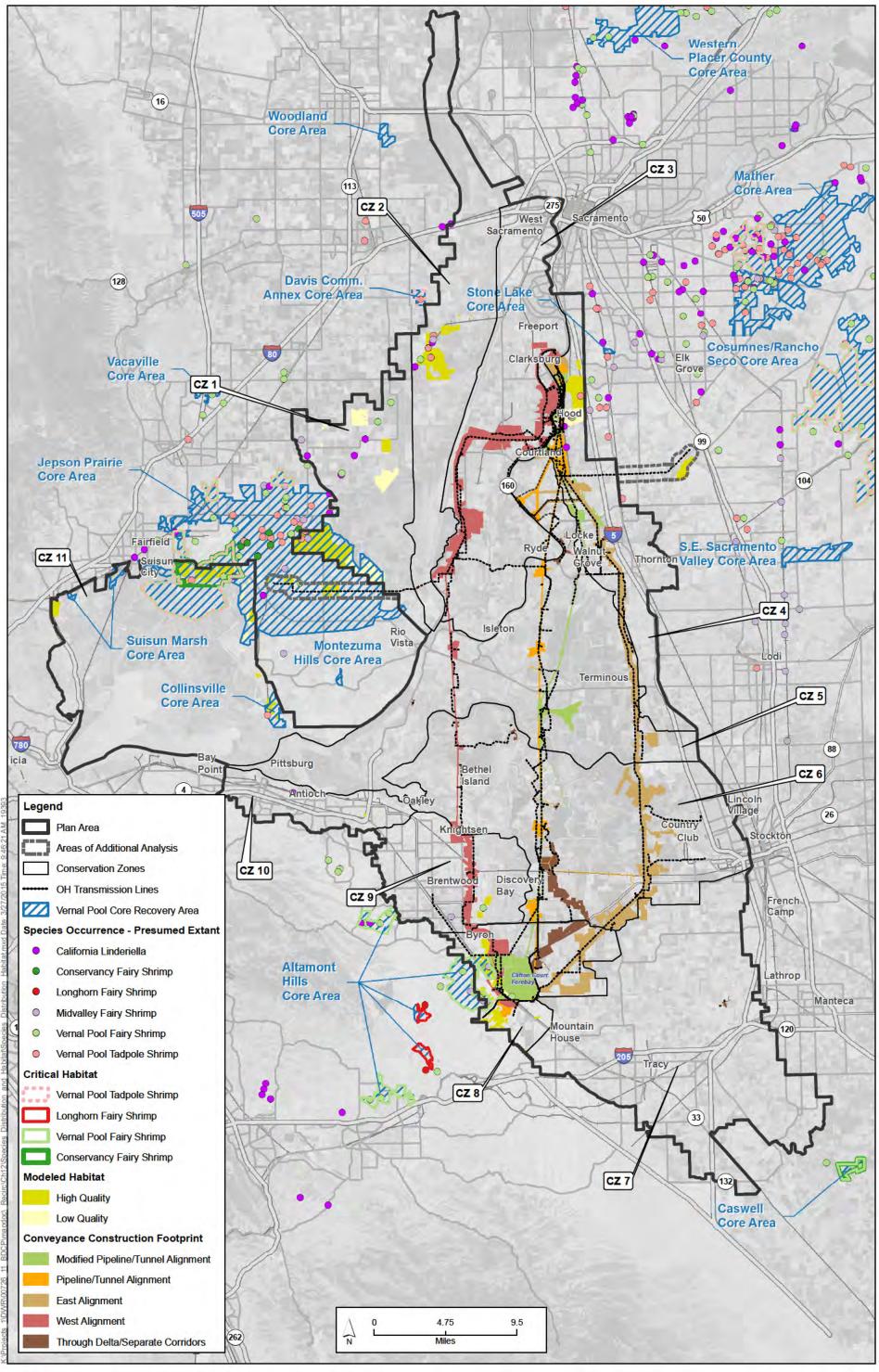
Figure 12-1 Distribution of Natural Communities in the Study Area

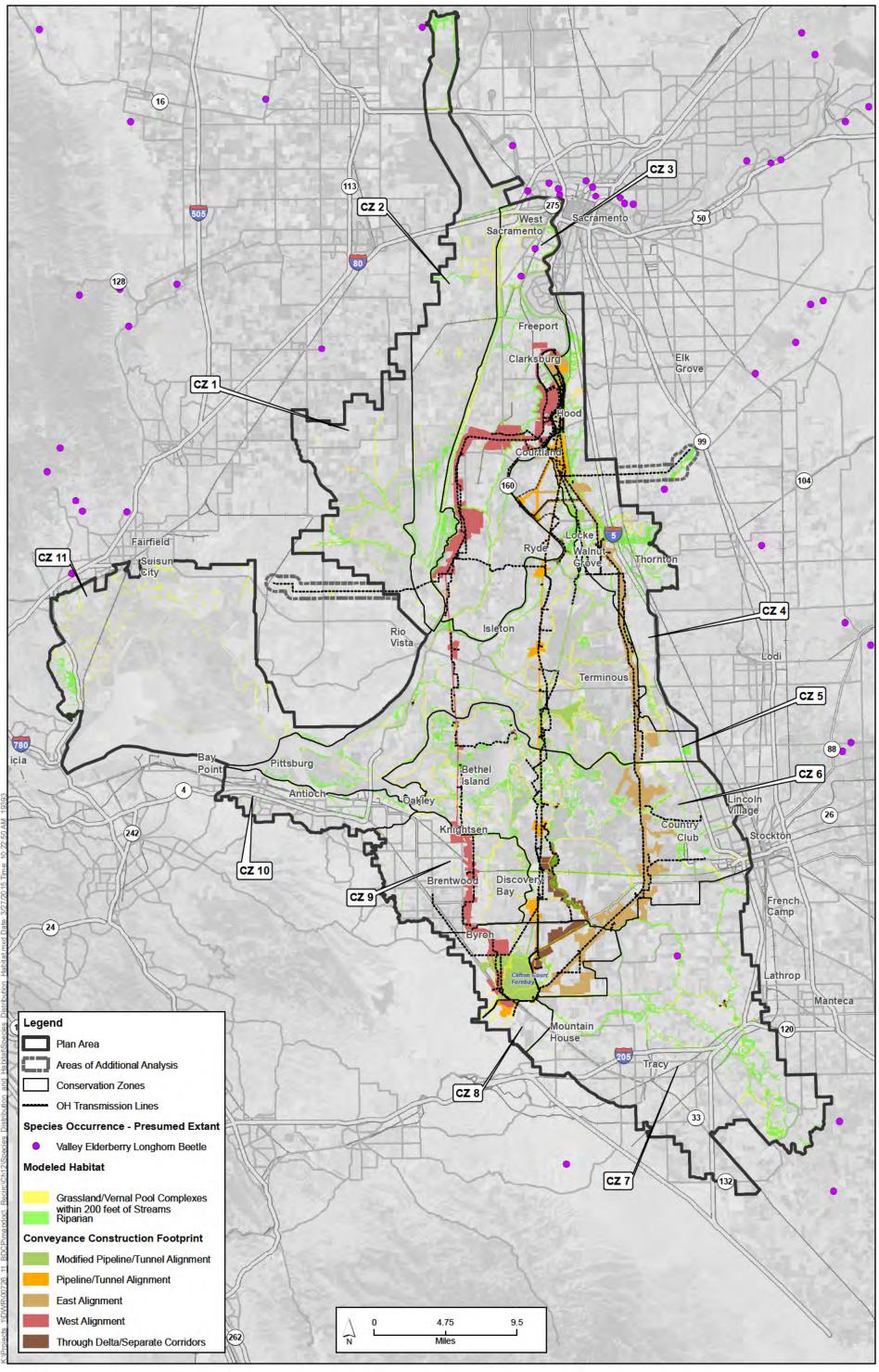


Sources: Plan Area, ICF 2012; Areas of Additional Analysis, ICF 2012; Constructability (Rev 2b), DHCCP DWR 2013, Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Conservation Zones, SAIC 2012; Essential Connectivity Areas, Caltrans and CDFG 2010.









Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, ICF 2013; Modeled Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-6 Valley Elderberry Longhorn Beetle Distribution and Habitat in Study Area Vicinity

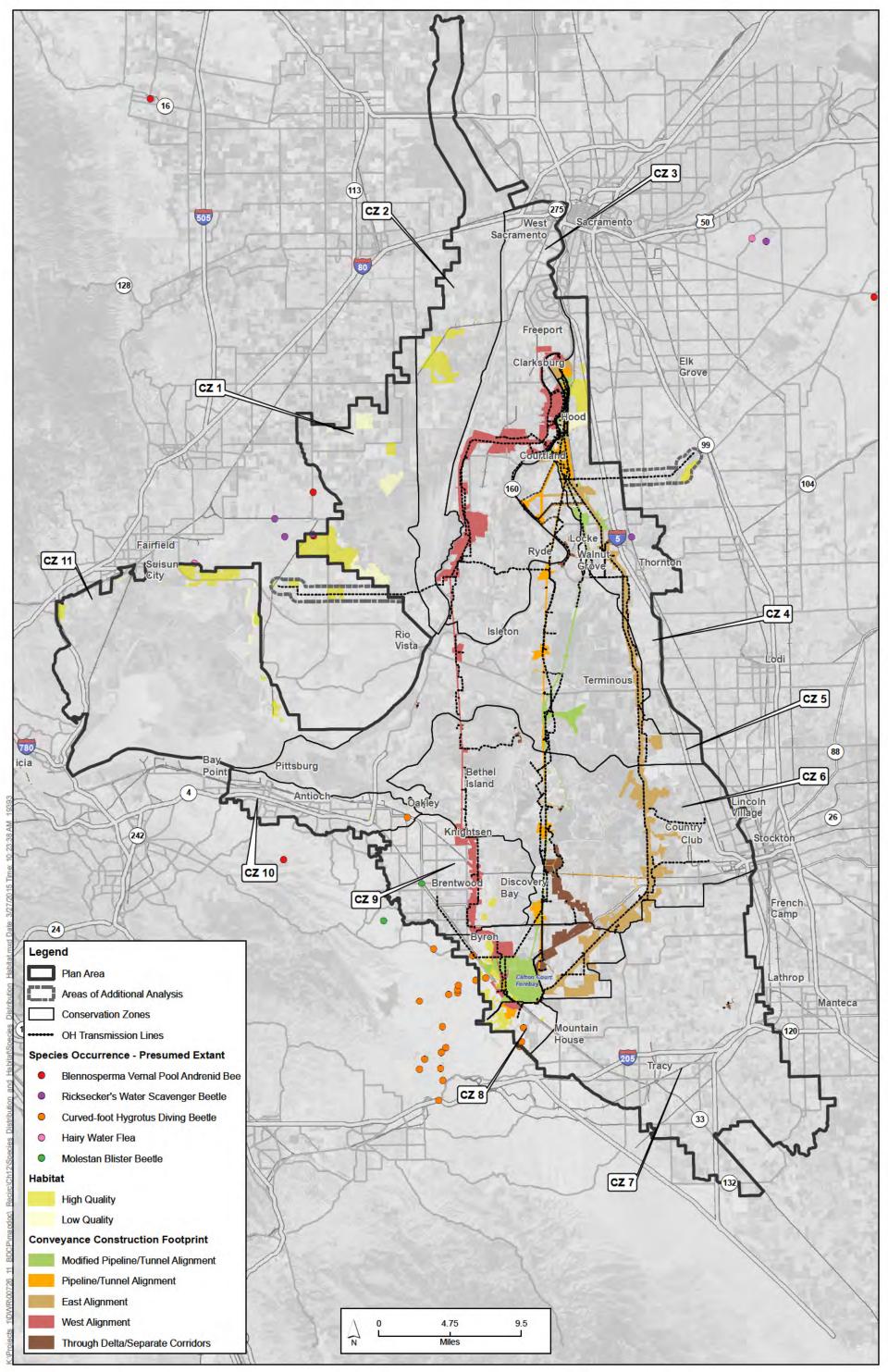


Figure 12-7
Other Vernal Pool Invertebrates Distribution and Habitat in Study Area Vicinity

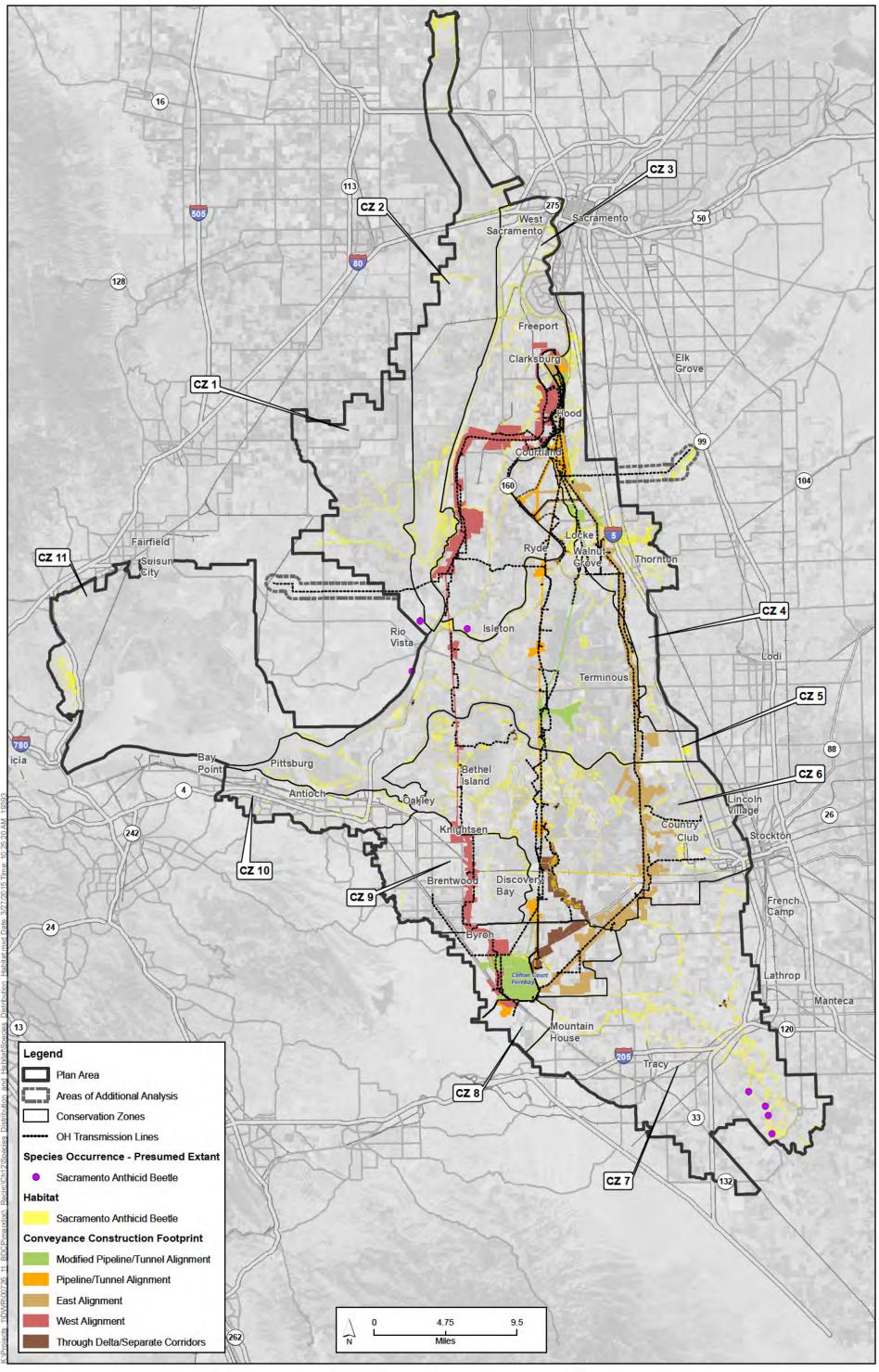
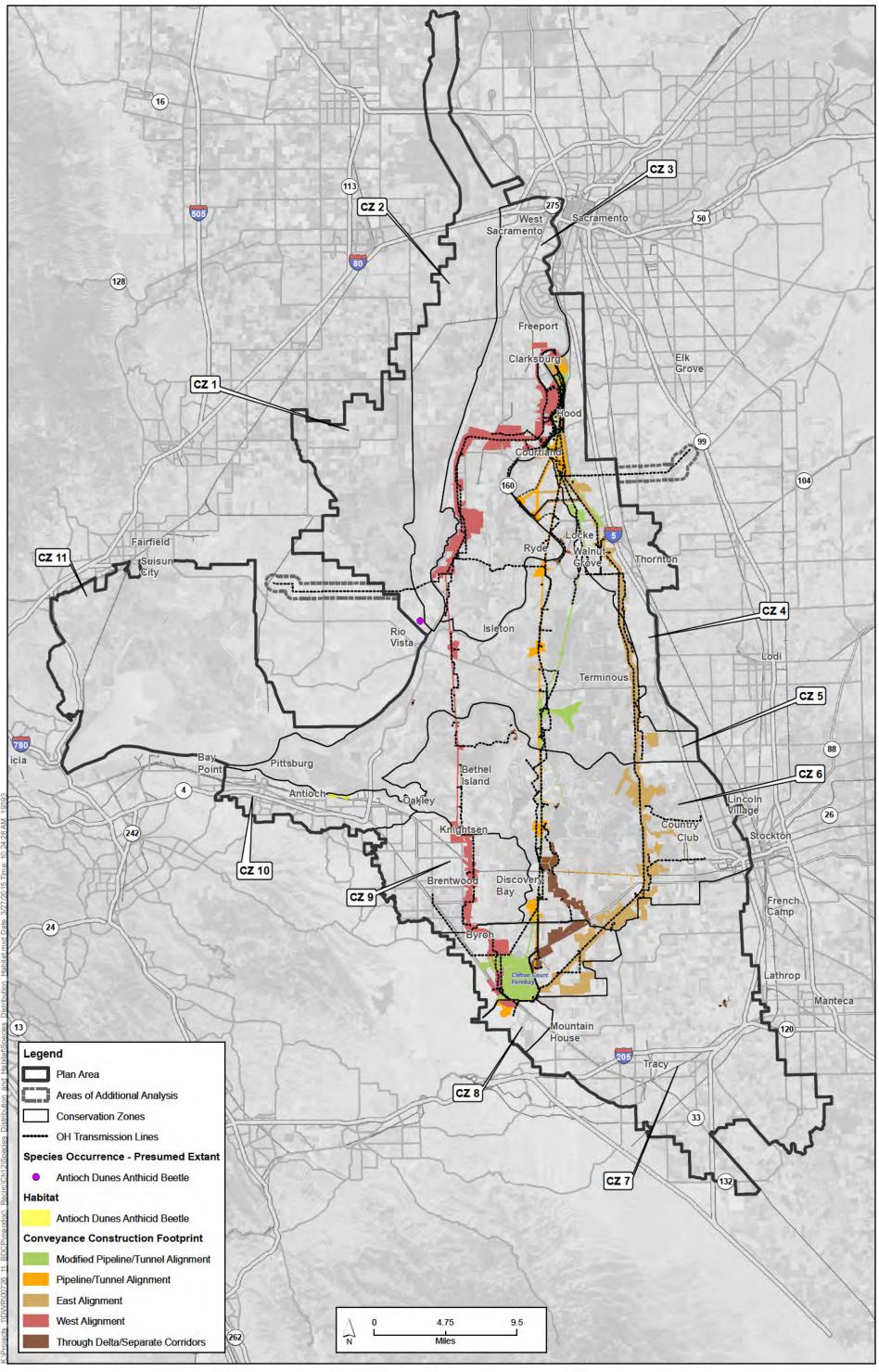
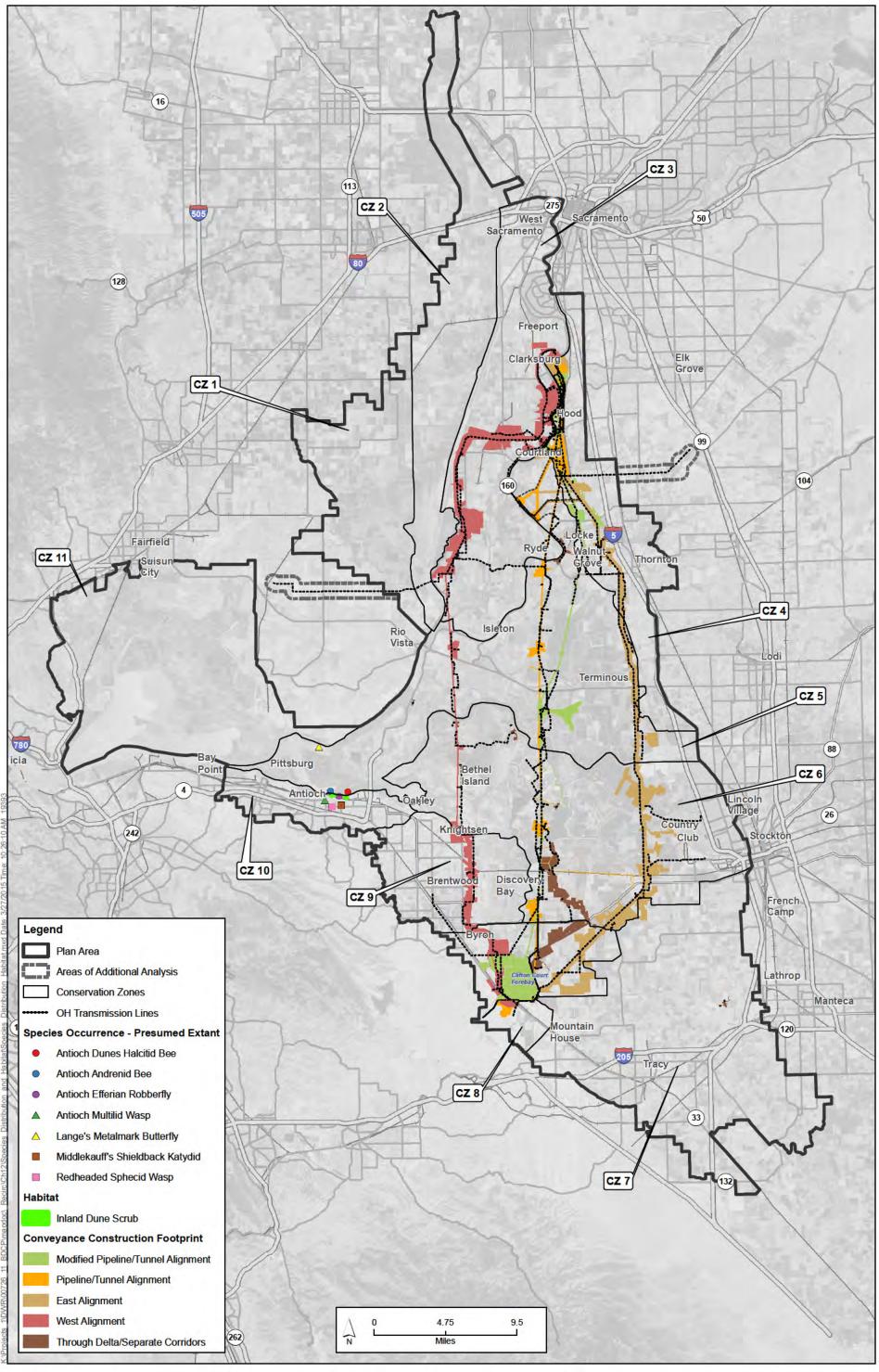


Figure 12-8 Sacramento Anthicid Beetle Distribution and Habitat in Study Area Vicinity



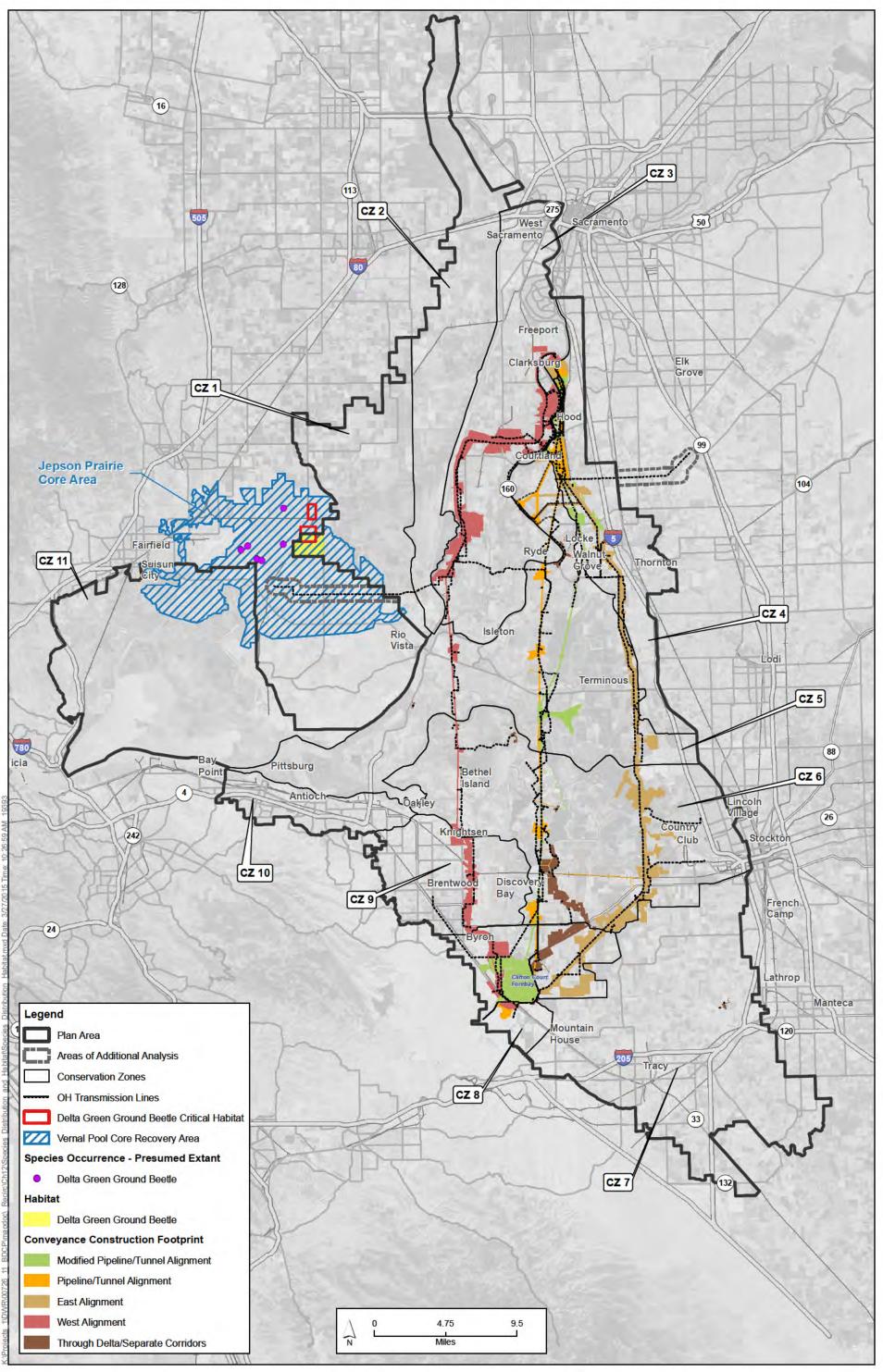
Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, CNDDB 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-9 Antioch Dunes Anthicid Beetle Distribution and Habitat in Study Area Vicinity



Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, CNDDB 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-10 Inland Dune Scrub Invertebrate Species Distribution and Habitat in Study Area Vicinity



Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Critical Habitat, U.S. Fish and Wildlife Service 2002; Species Occurrences, CNDDB 2013; Vernal Pool Core Recovery Area, SAIC 2011; Modeled Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-11
Delta Green Ground Beetle Distribution and Habitat in Study Area Vicinity

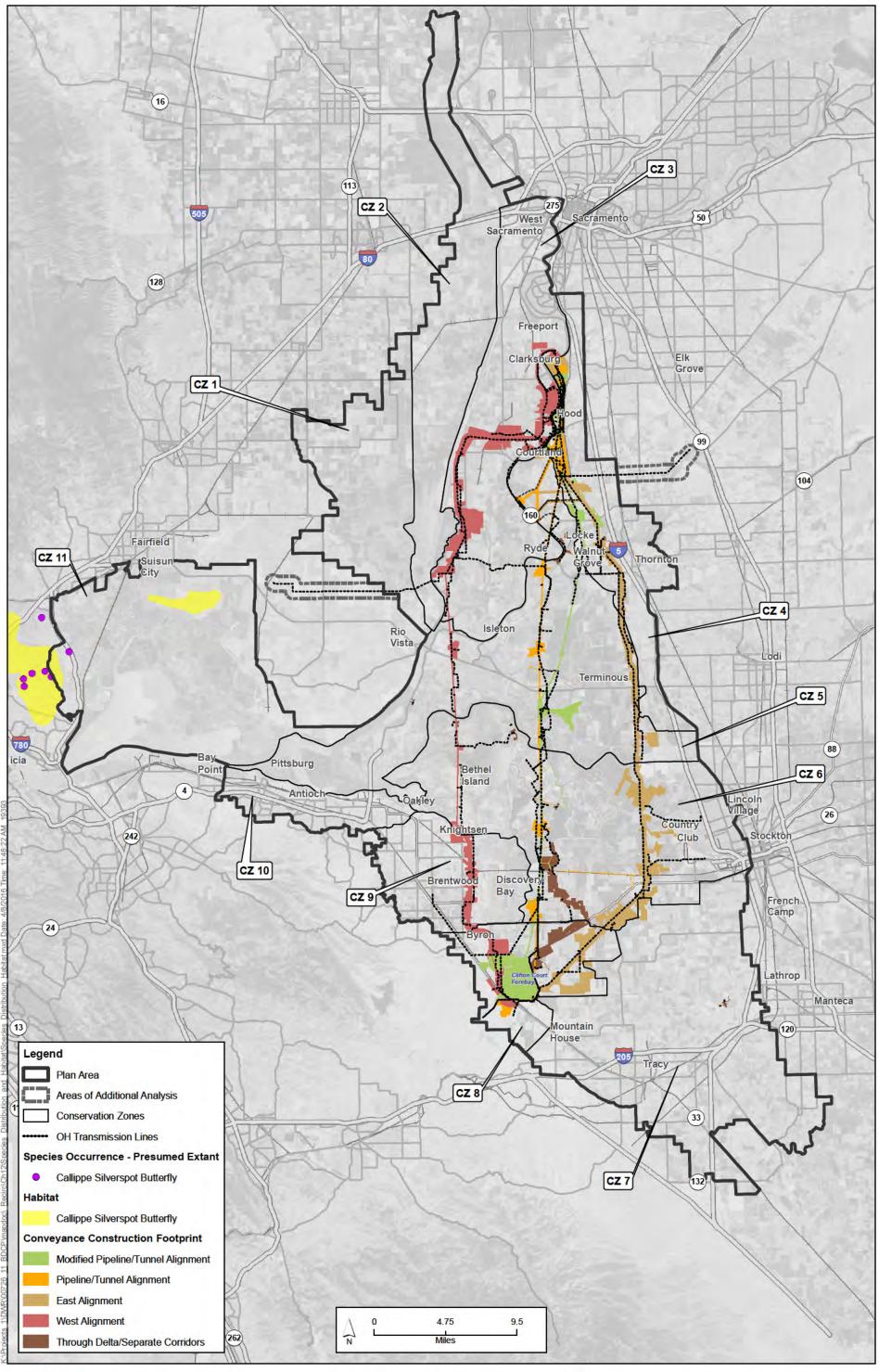
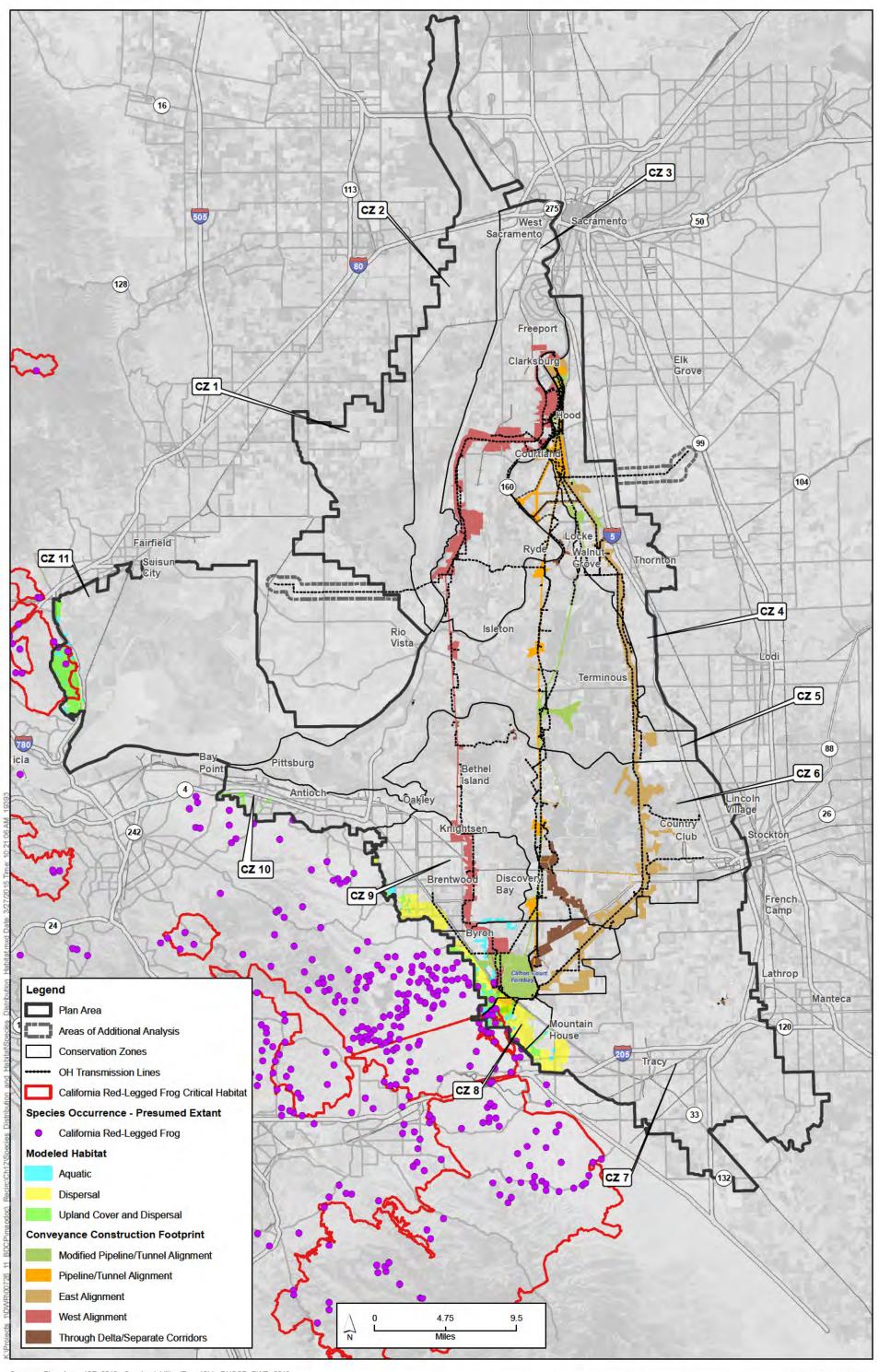
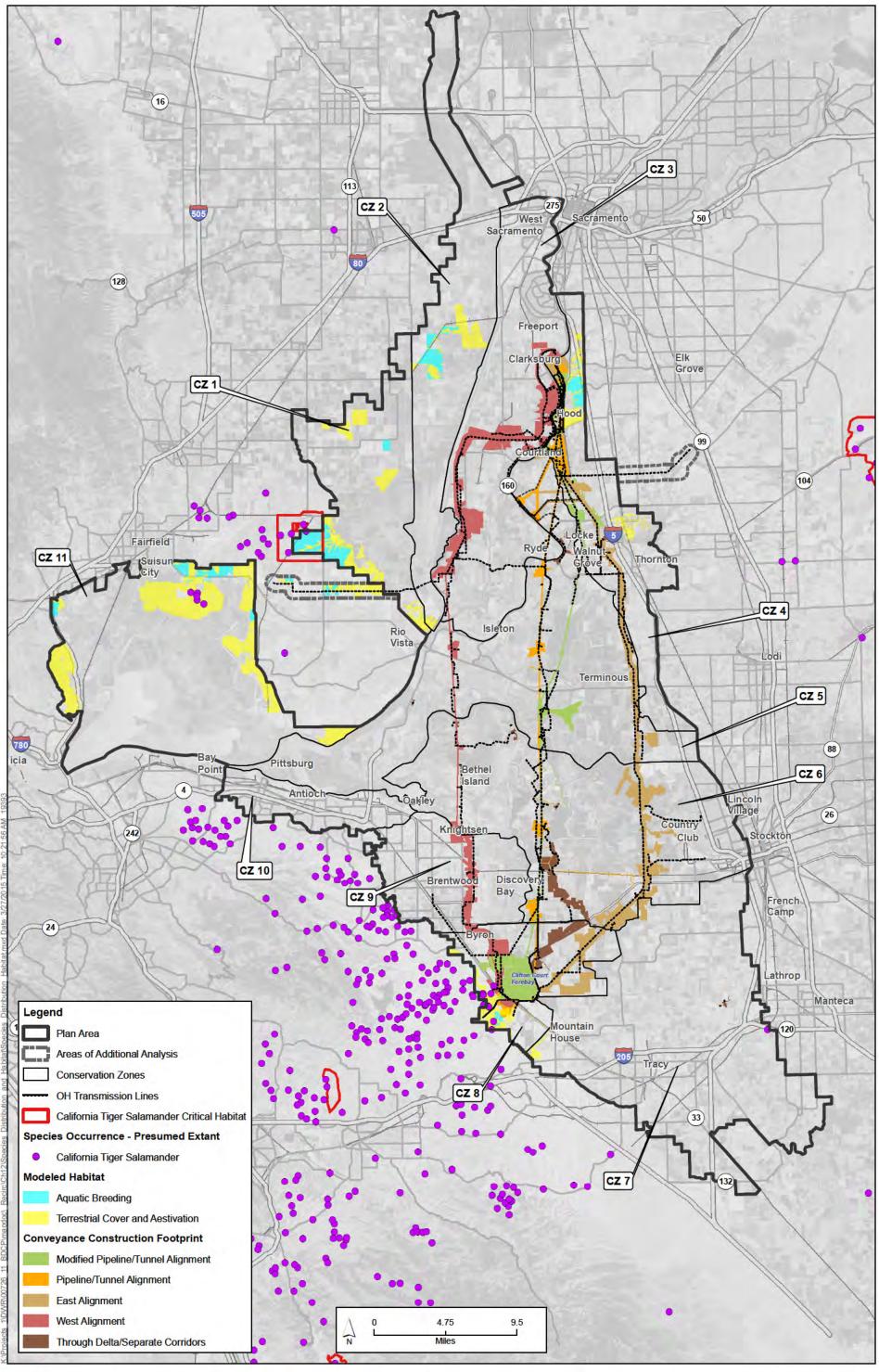
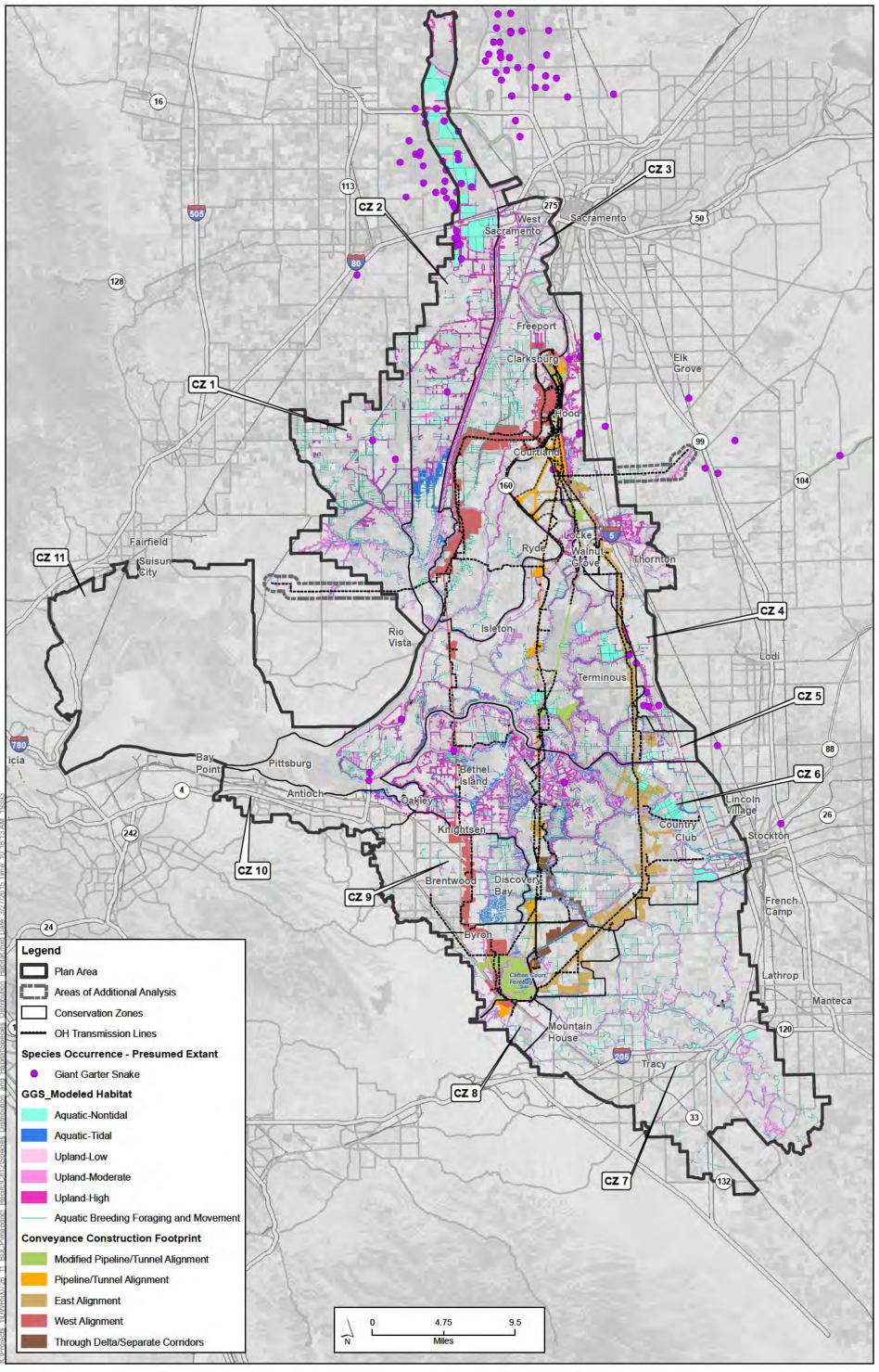


Figure 12-12 Callippe Silverspot Butterfly Distribution and Habitat in Study Area Vicinity







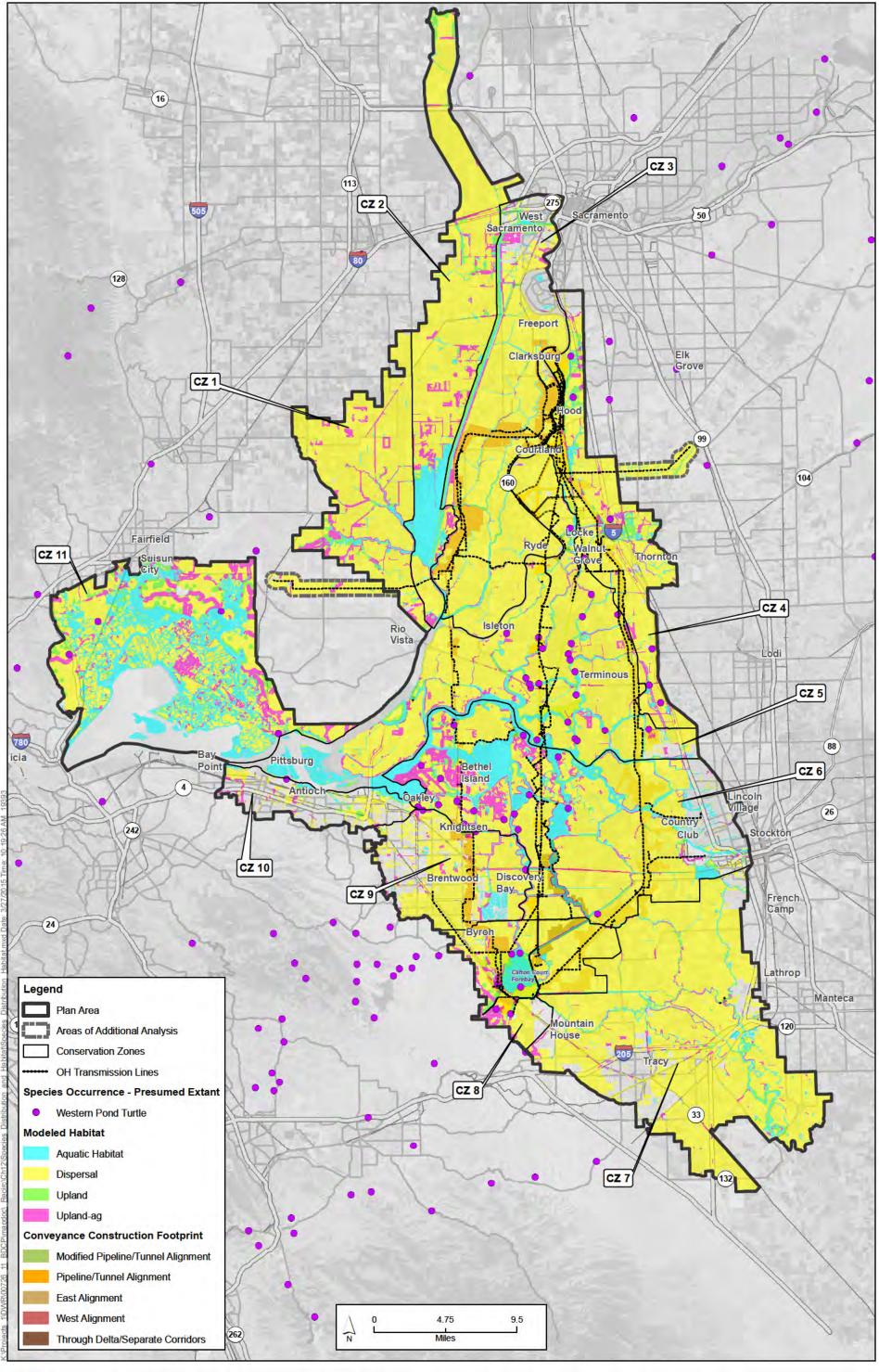
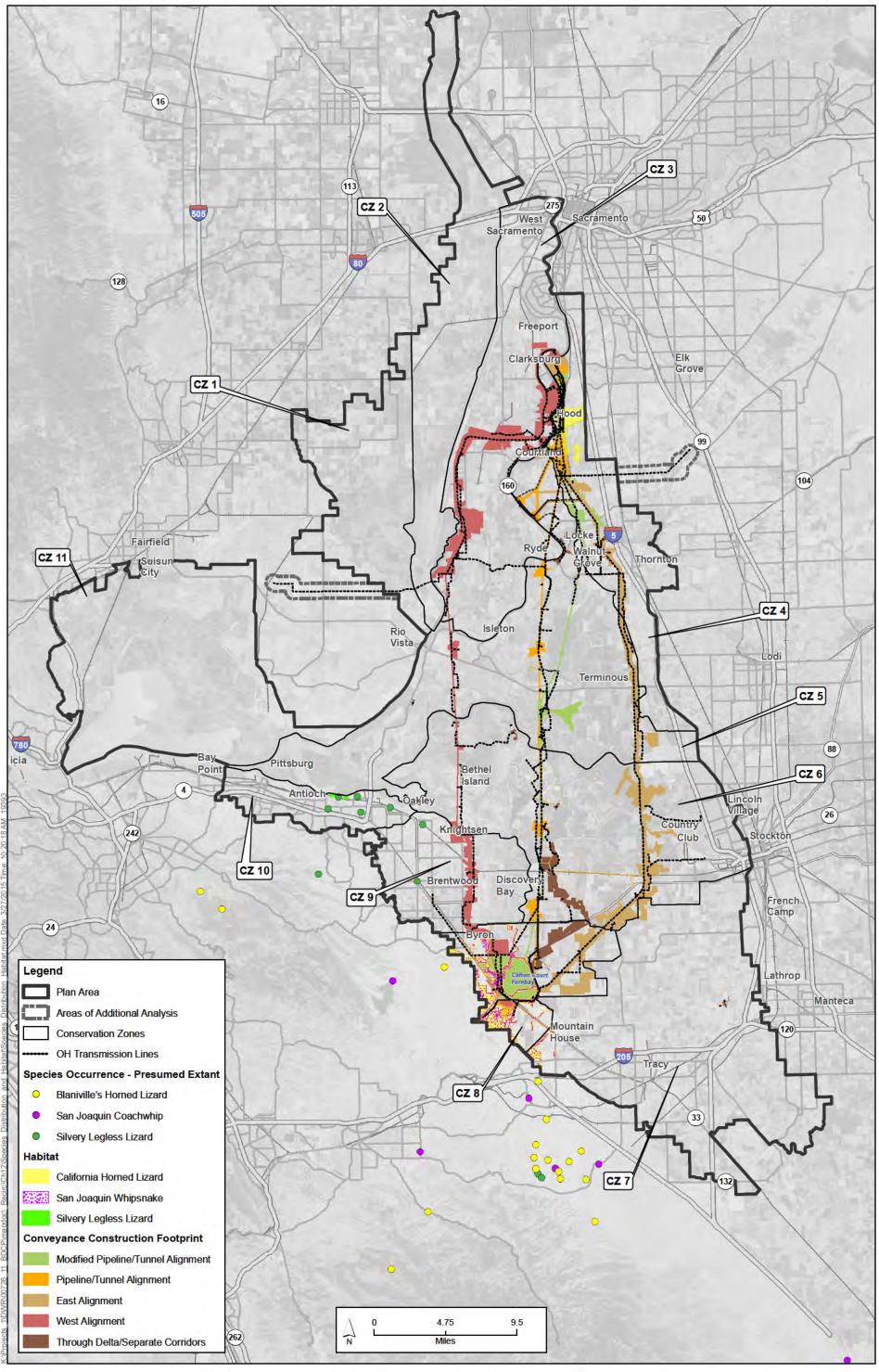


Figure 12-16
Western Pond Turtle Distribution and Habitat in Study Area Vicinity



Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, ICF 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-17 California Horned Lizard, San Joaquin Whipsnake, and Silvery Legless Lizard Distribution and Habitat in Study Area Vicinity

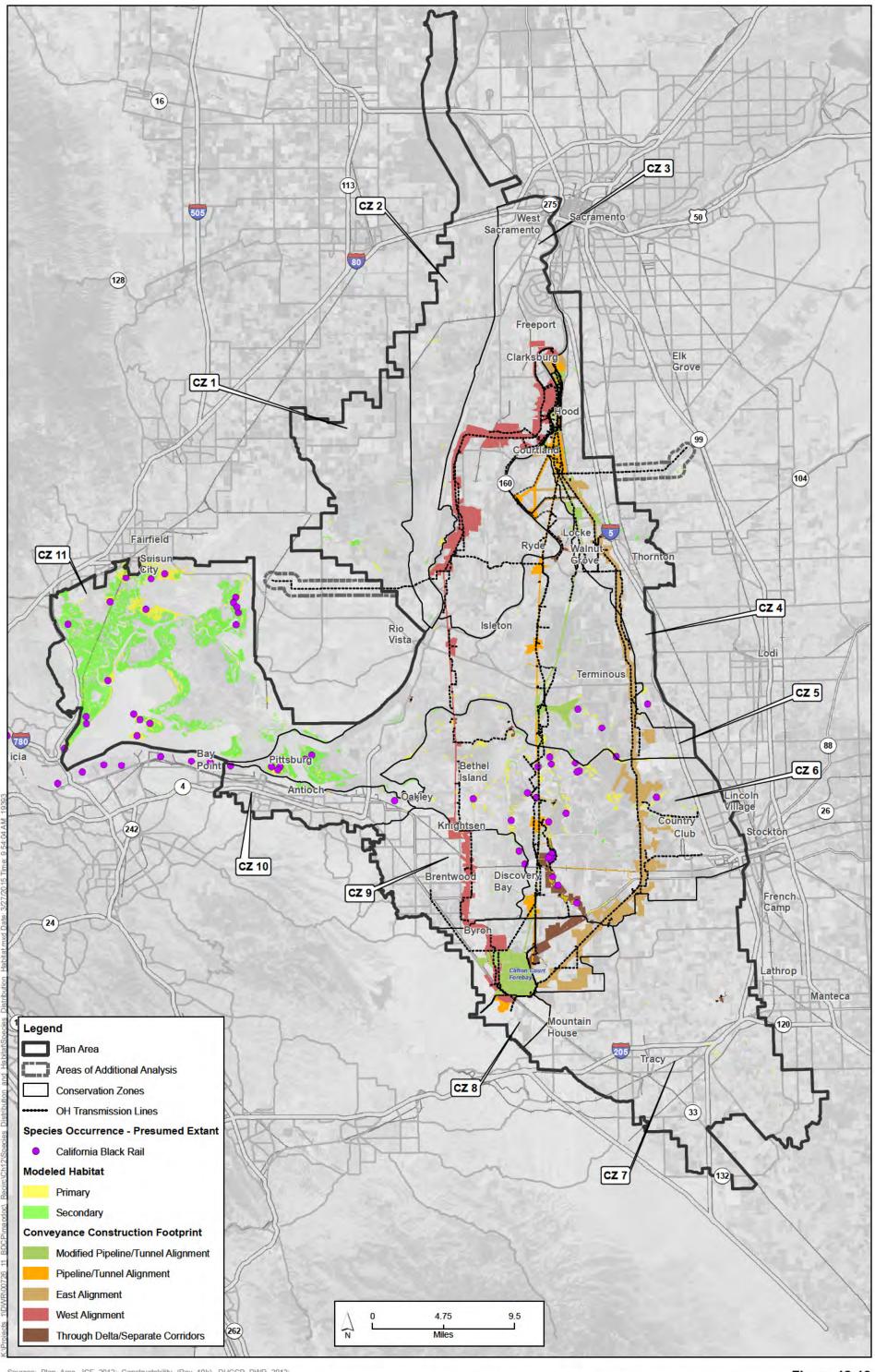


Figure 12-18 California Black Rail Distribution and Habitat in Study Area Vicinity

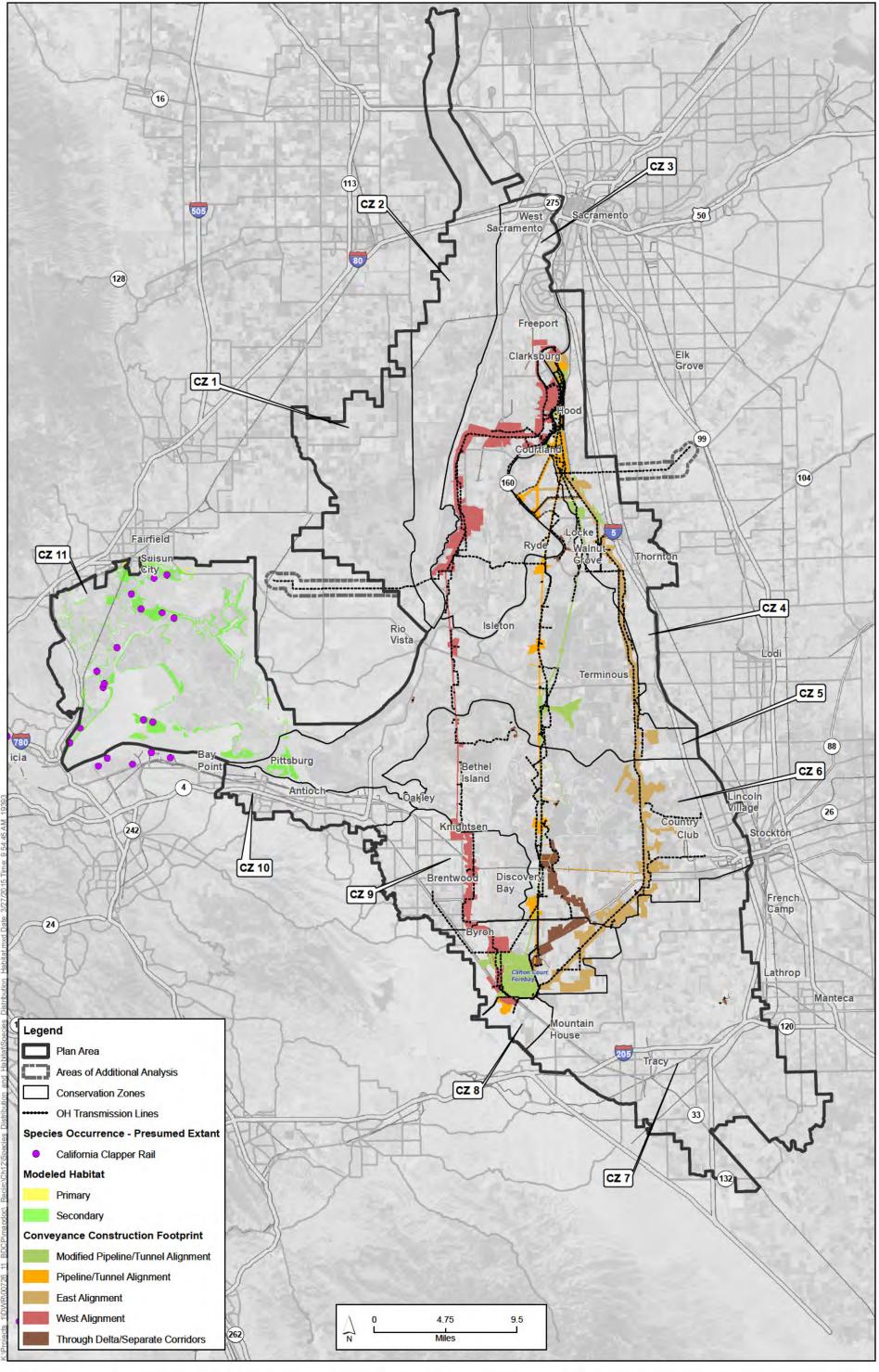
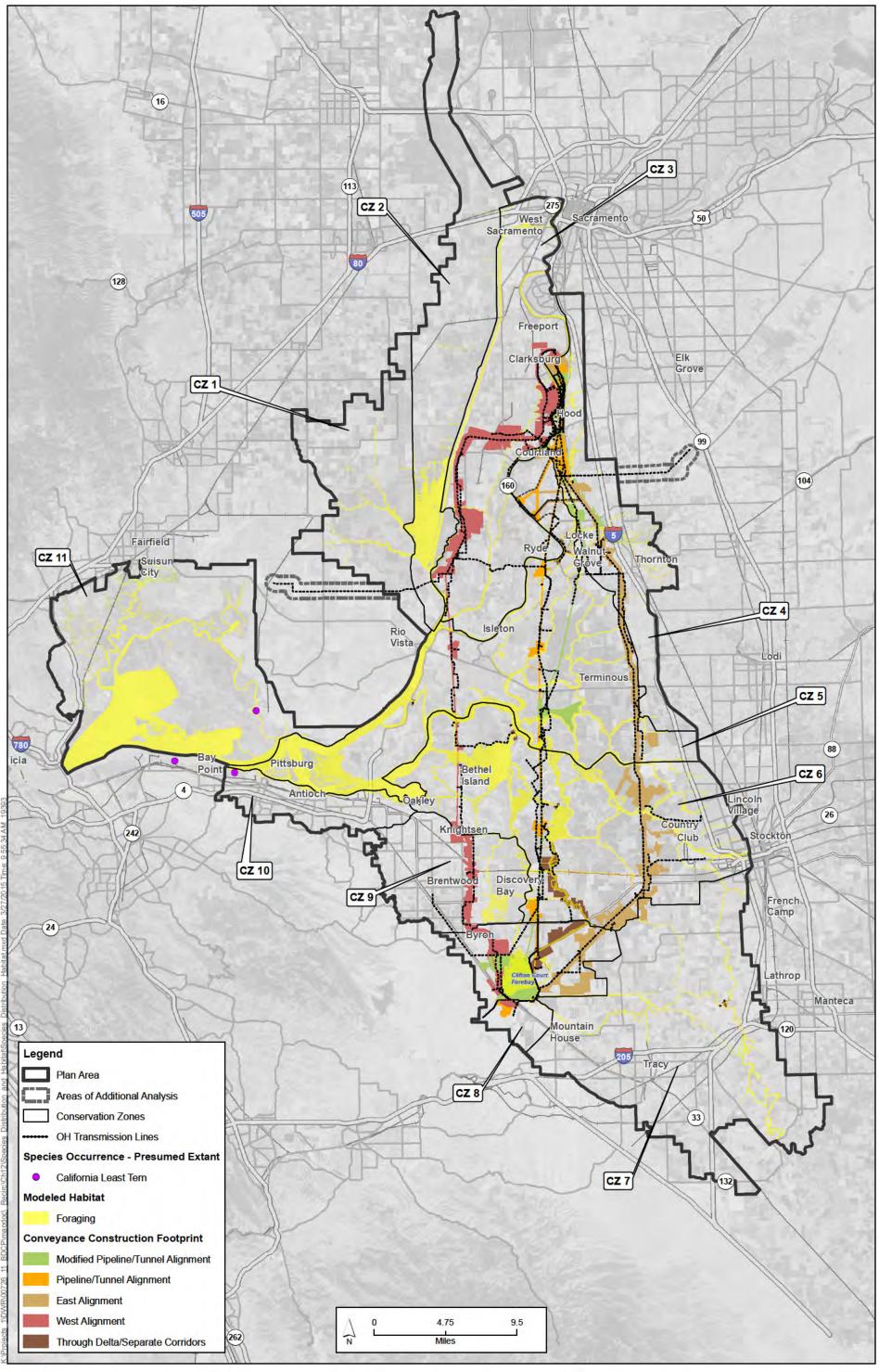
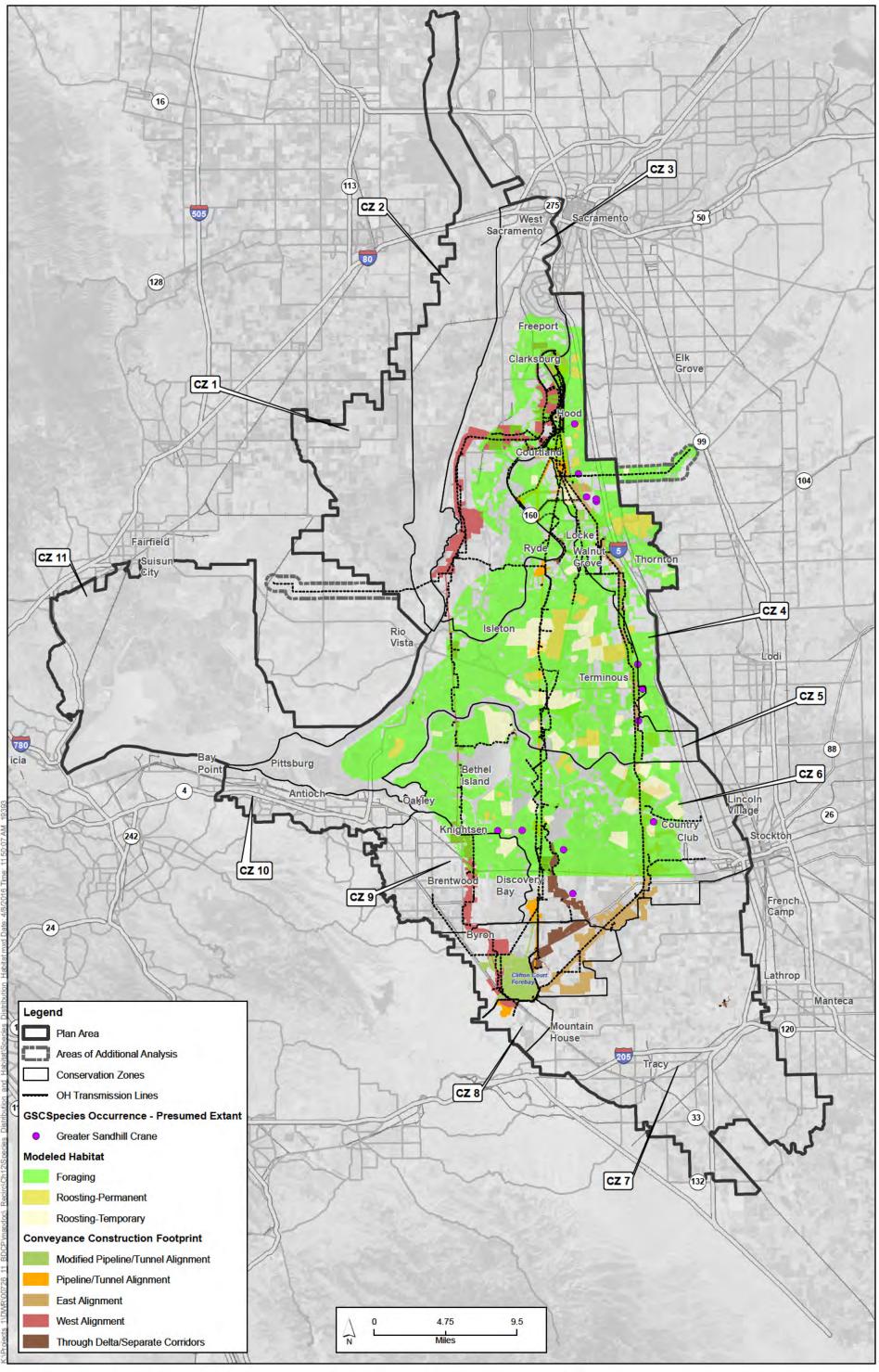
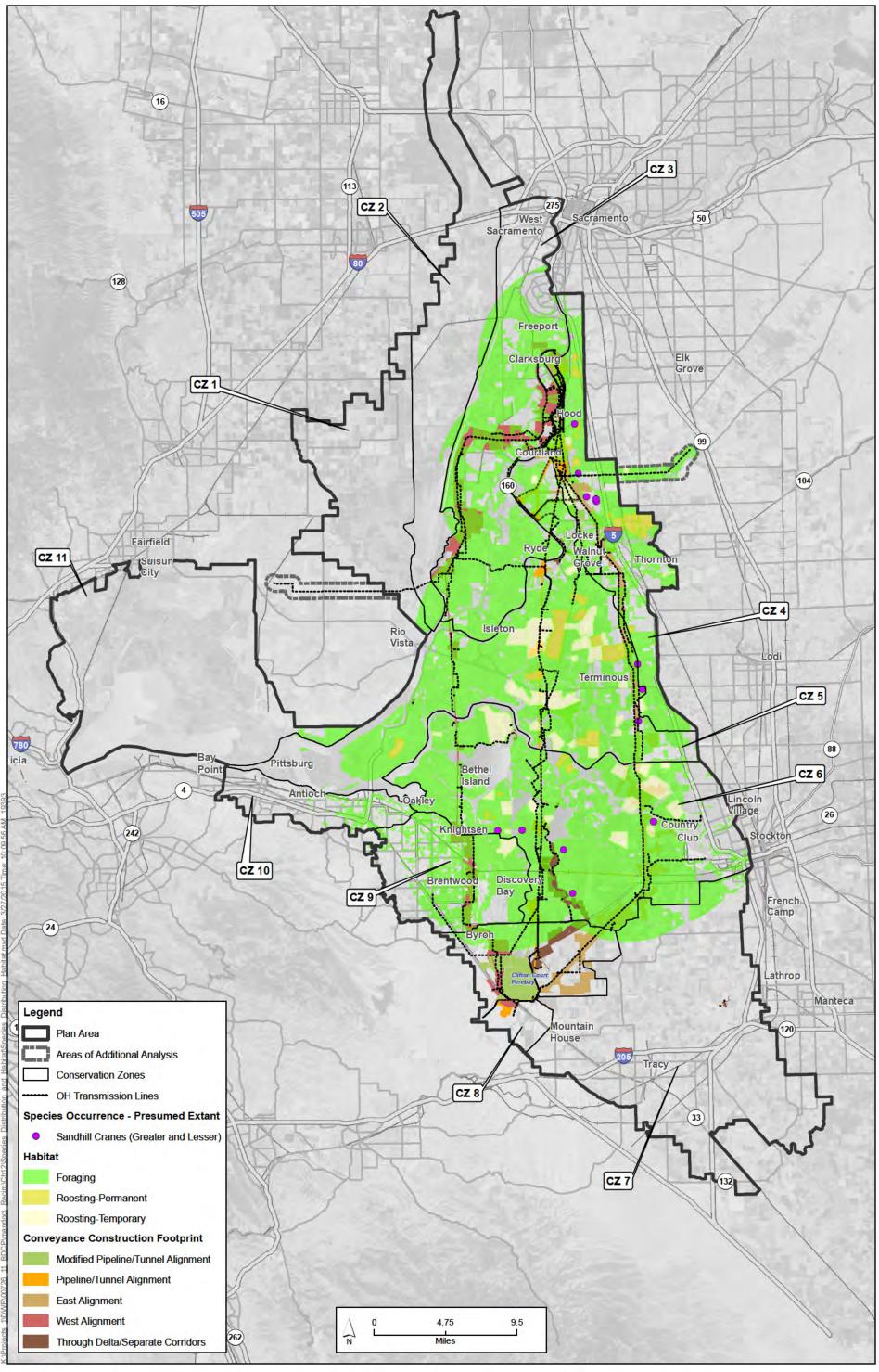
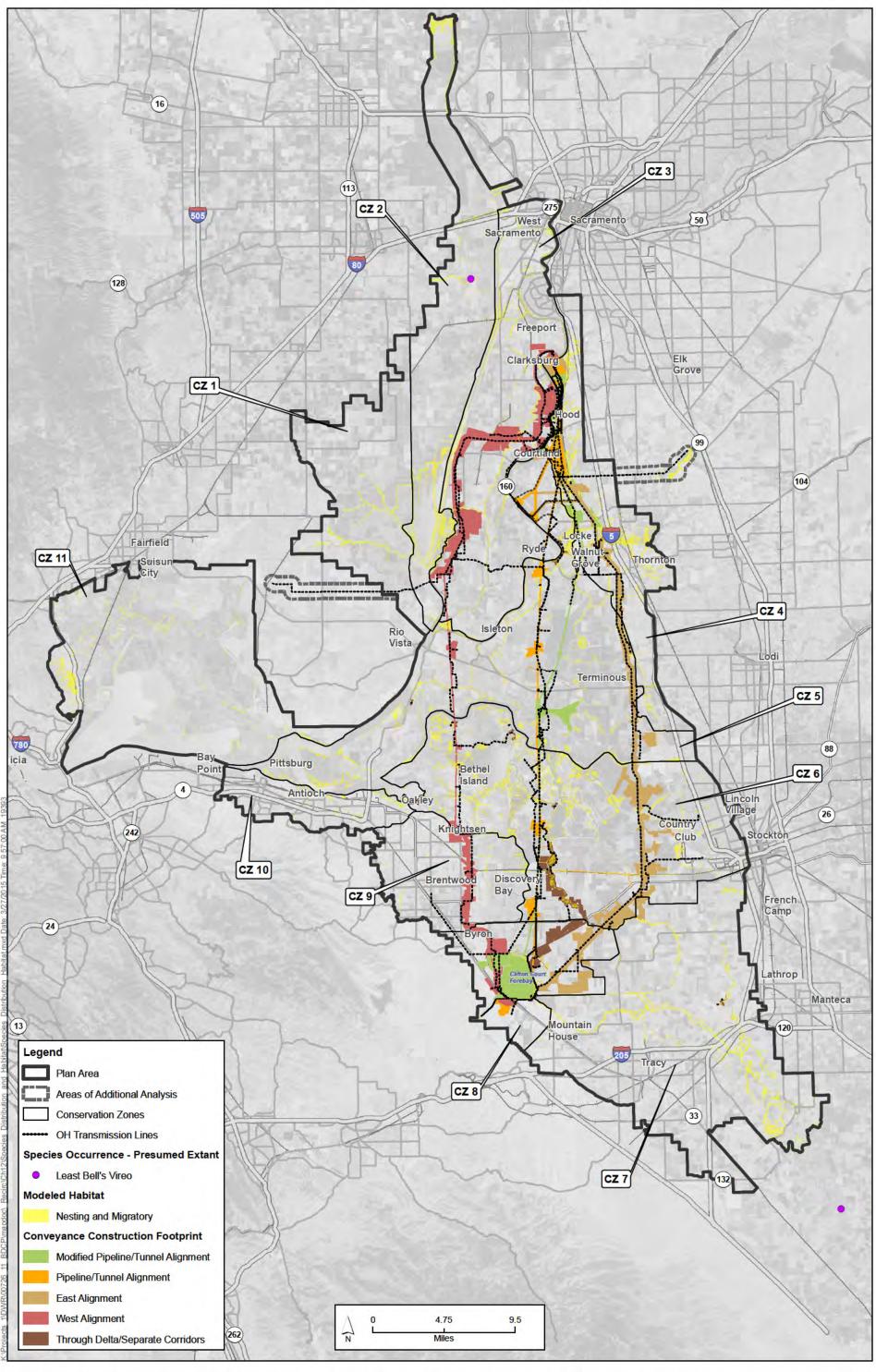


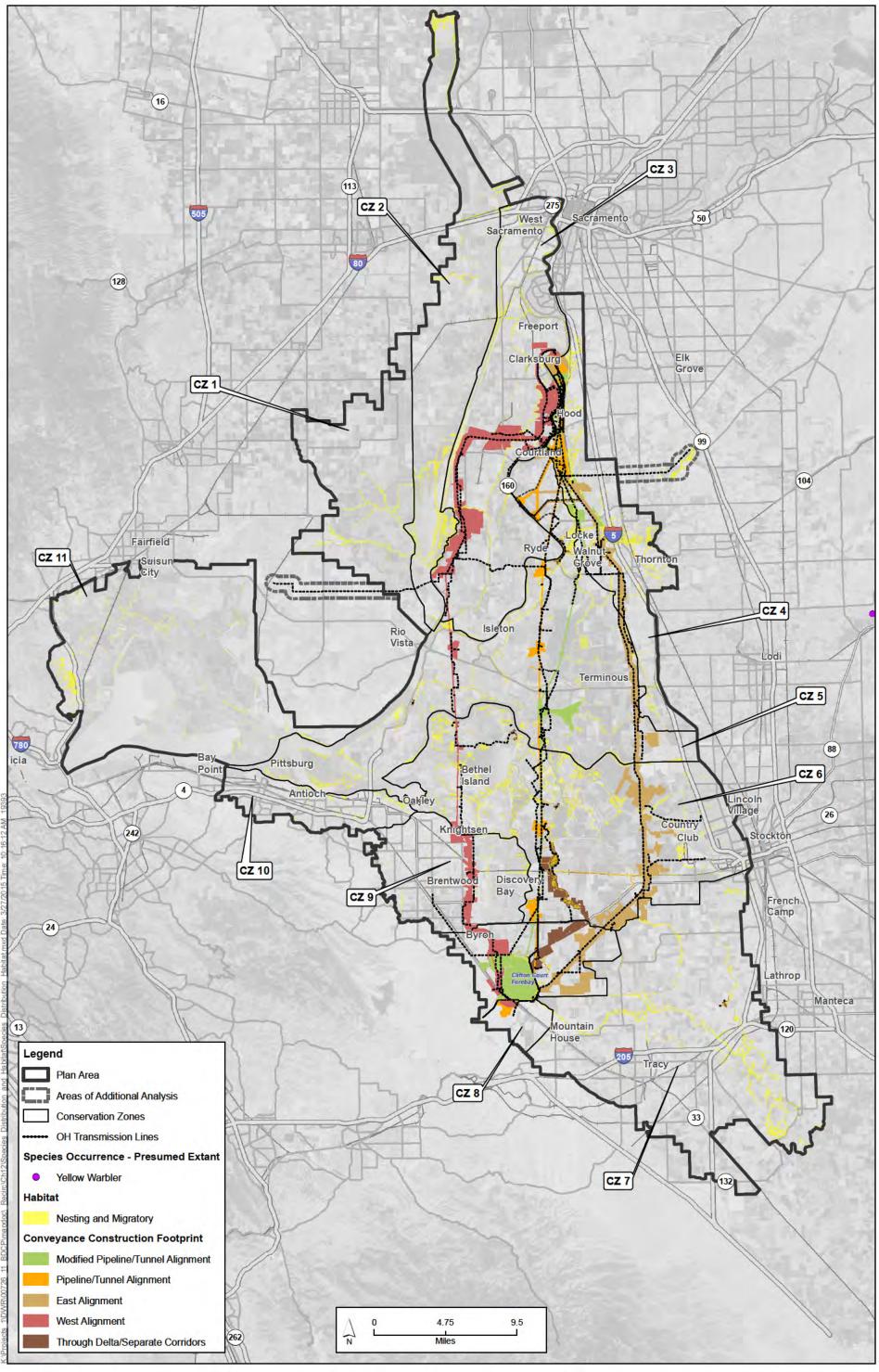
Figure 12-19 California Clapper Rail Distribution and Habitat in Study Area Vicinity











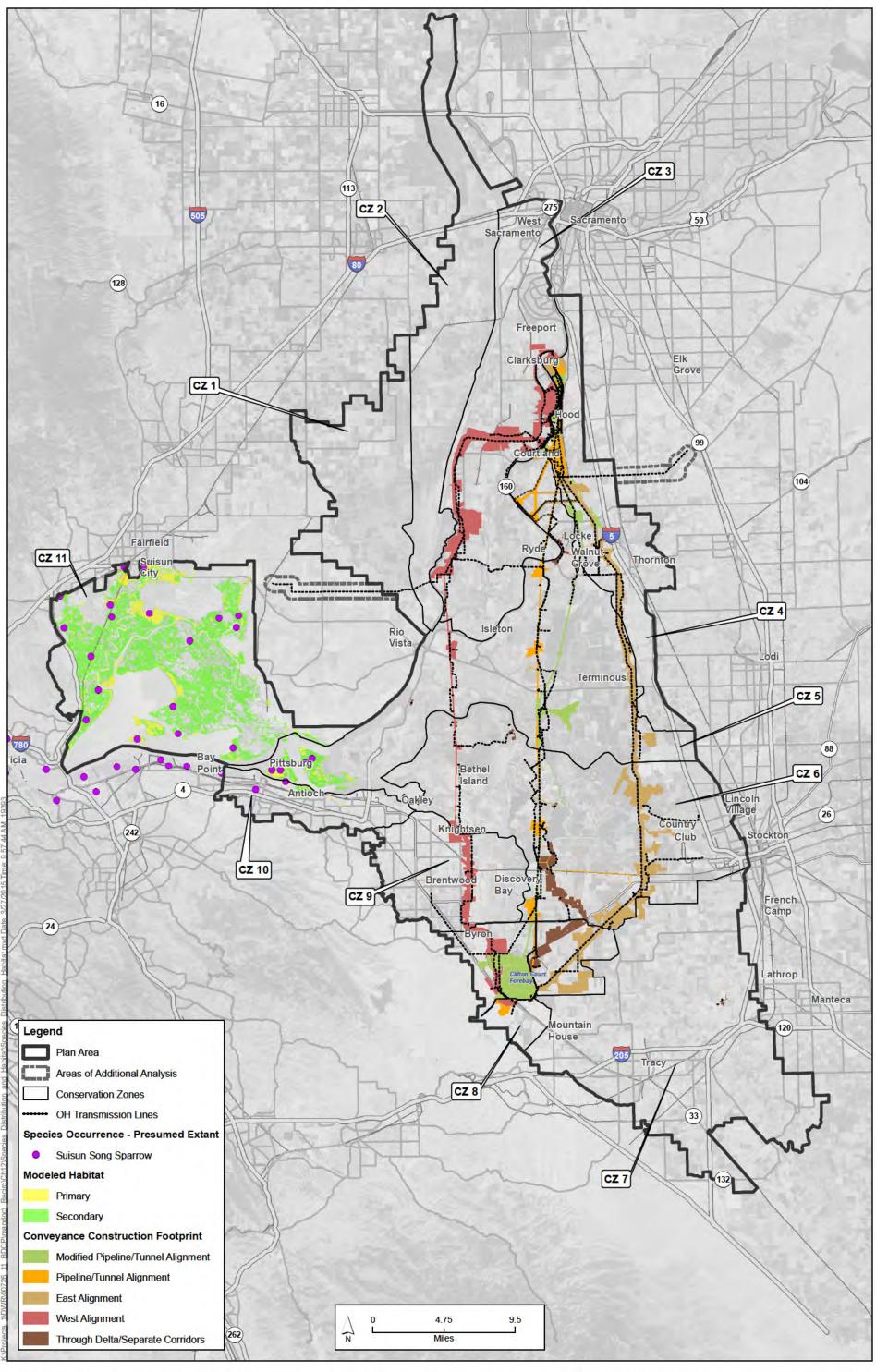
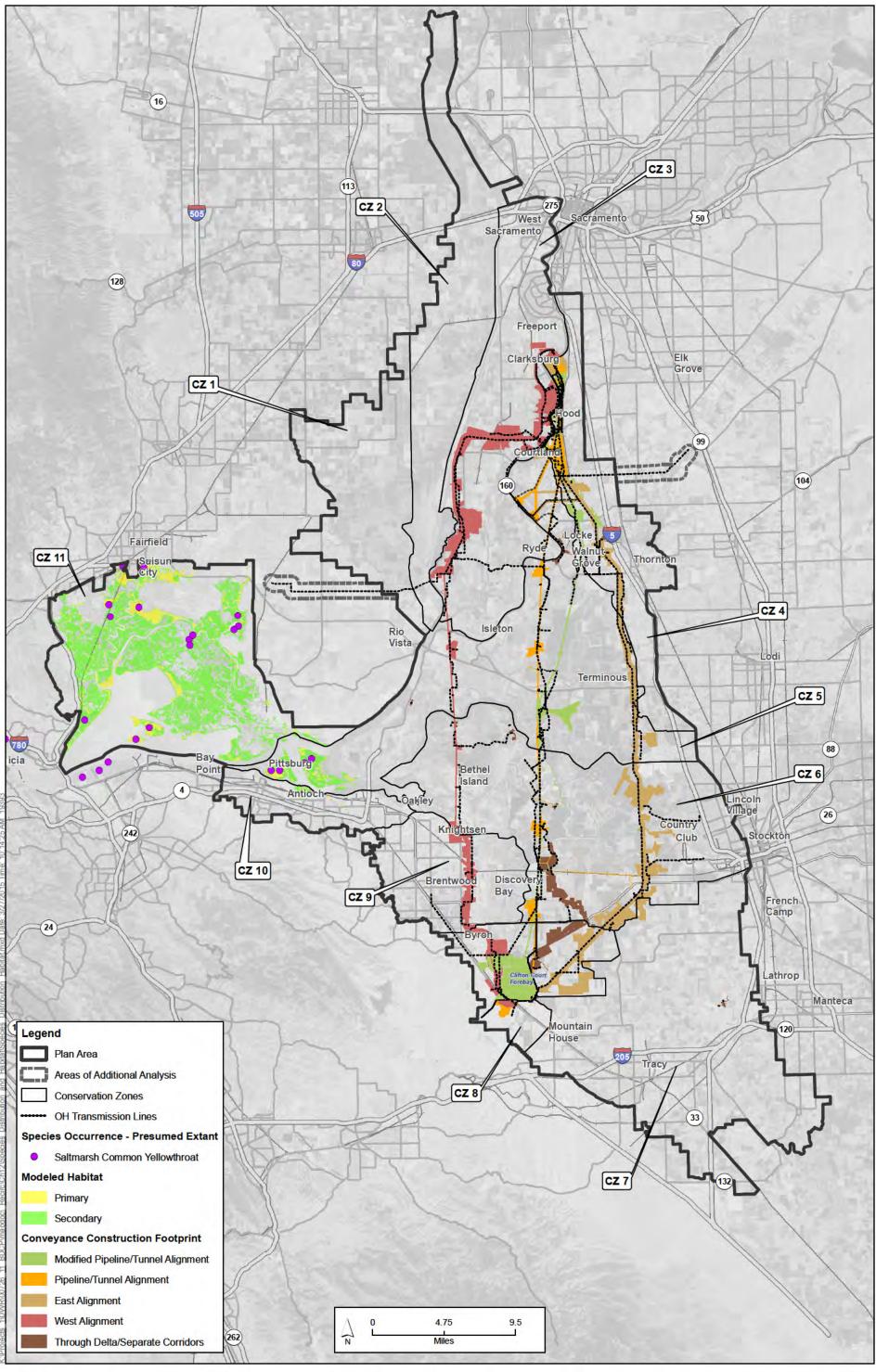
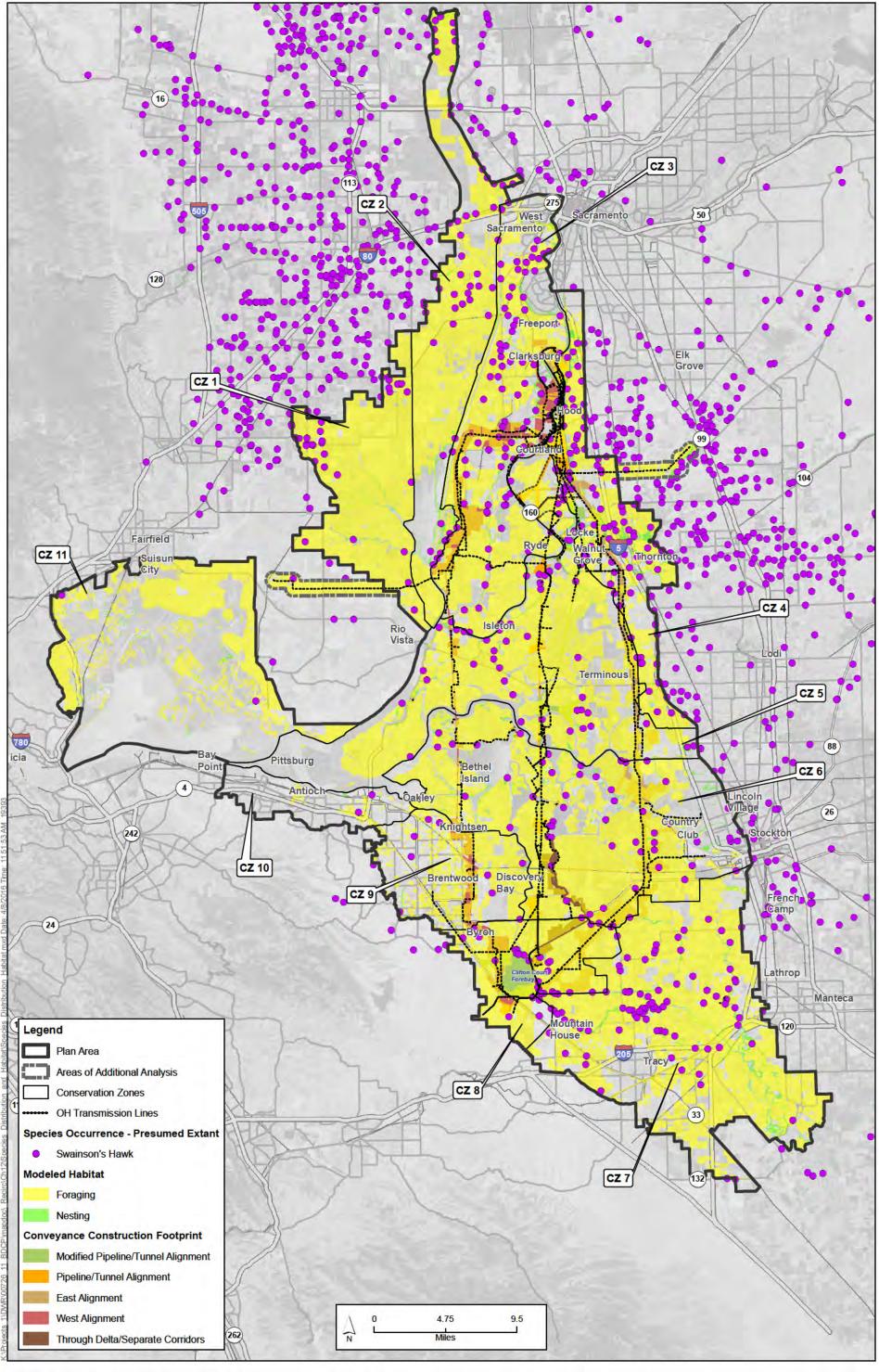


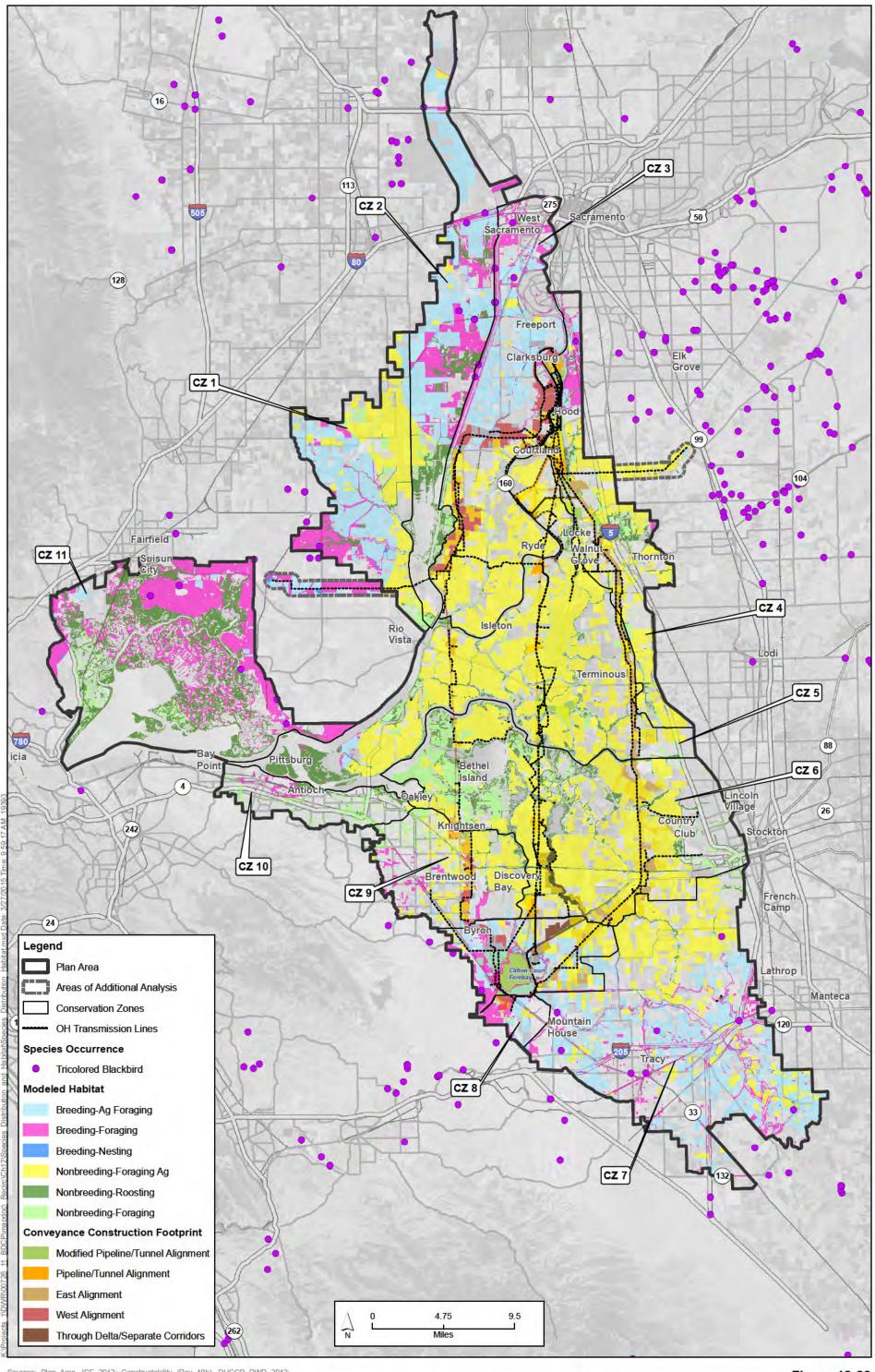
Figure 12-25
Suisun Song Sparrow Distribution and Habitat in Study Area Vicinity

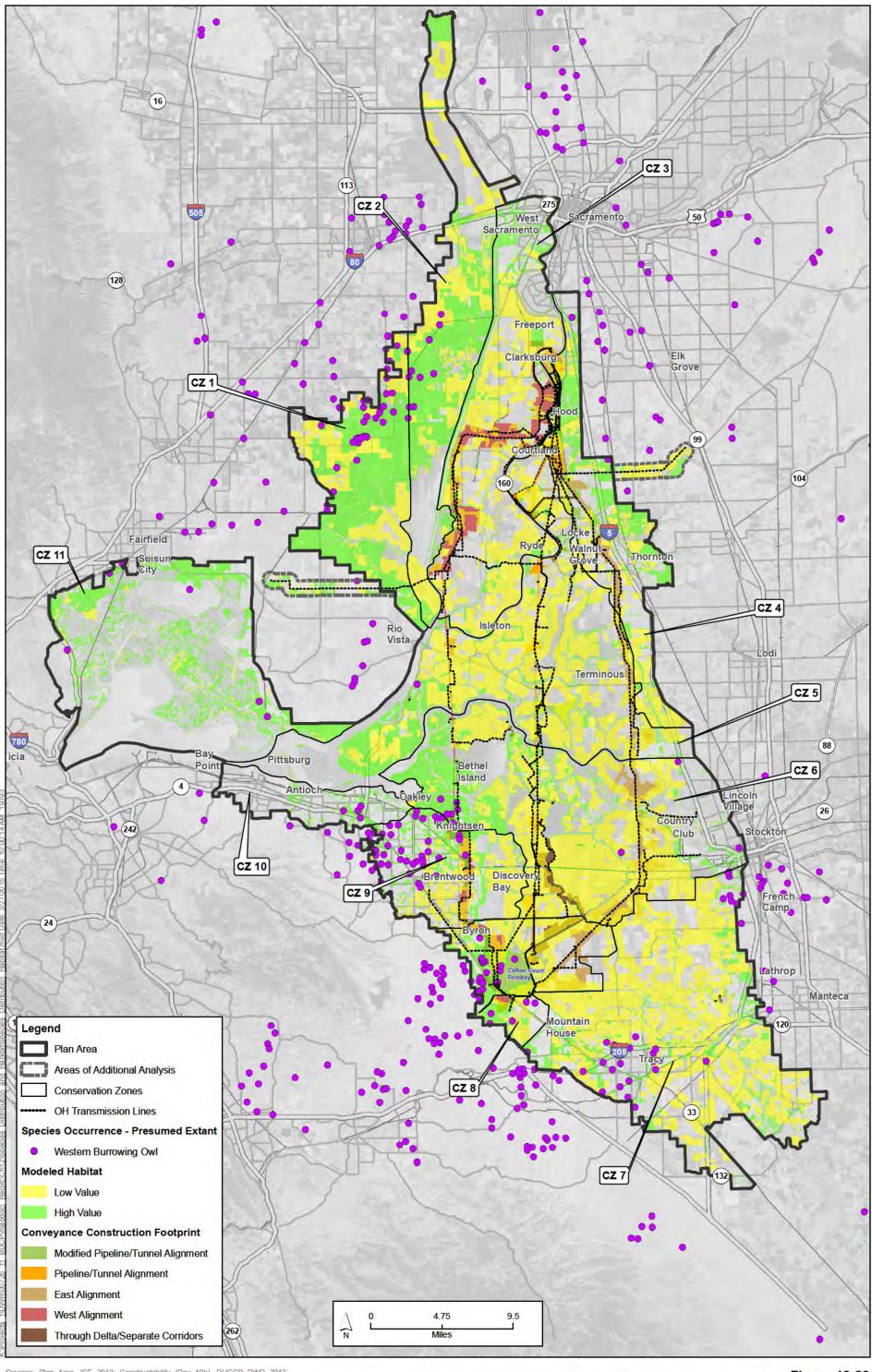


Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, CNDDB 2013; Modeled Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-26 Saltmarsh Common Yellowthroat Distribution and Habitat in Study Area Vicinity

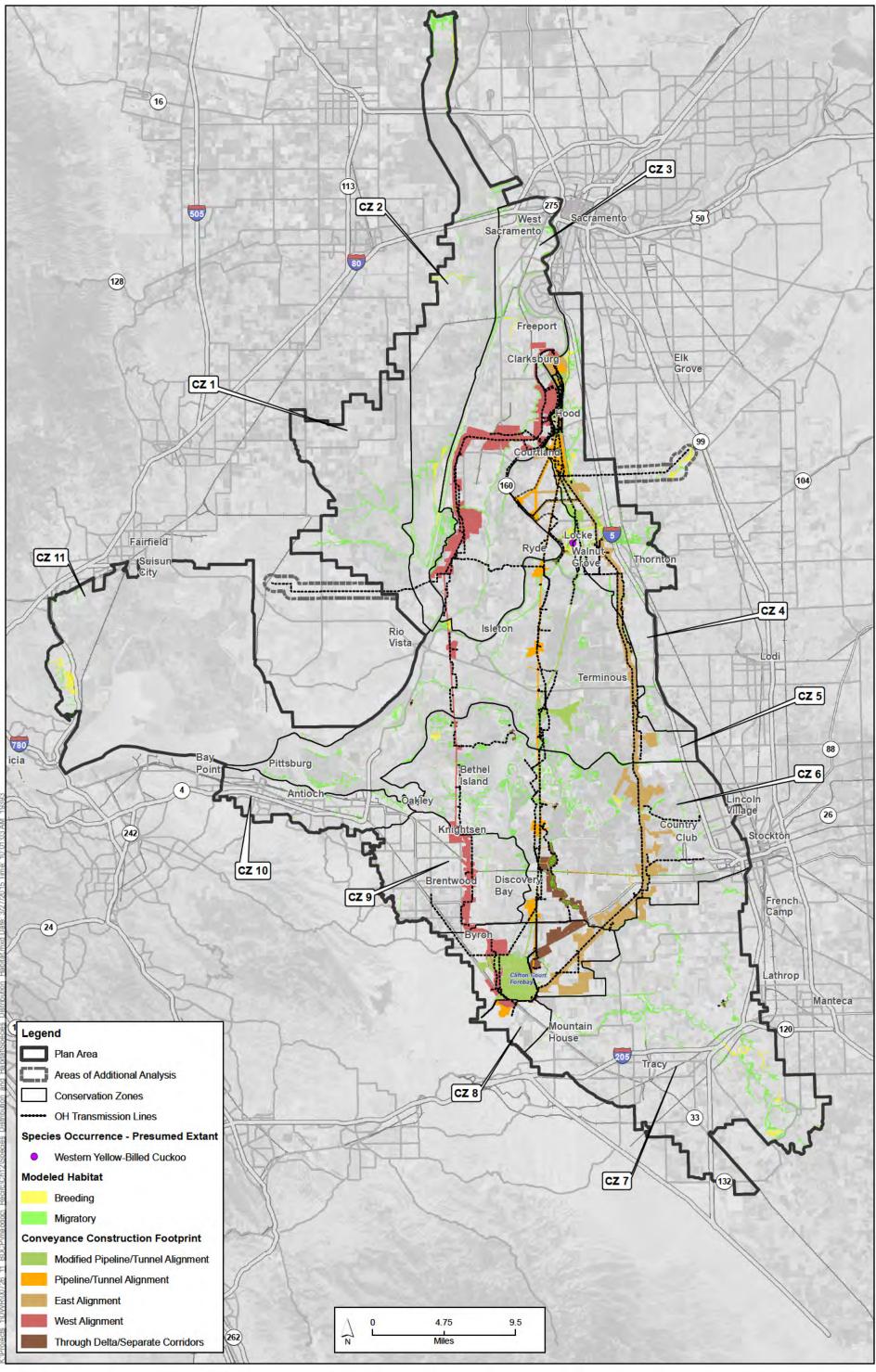






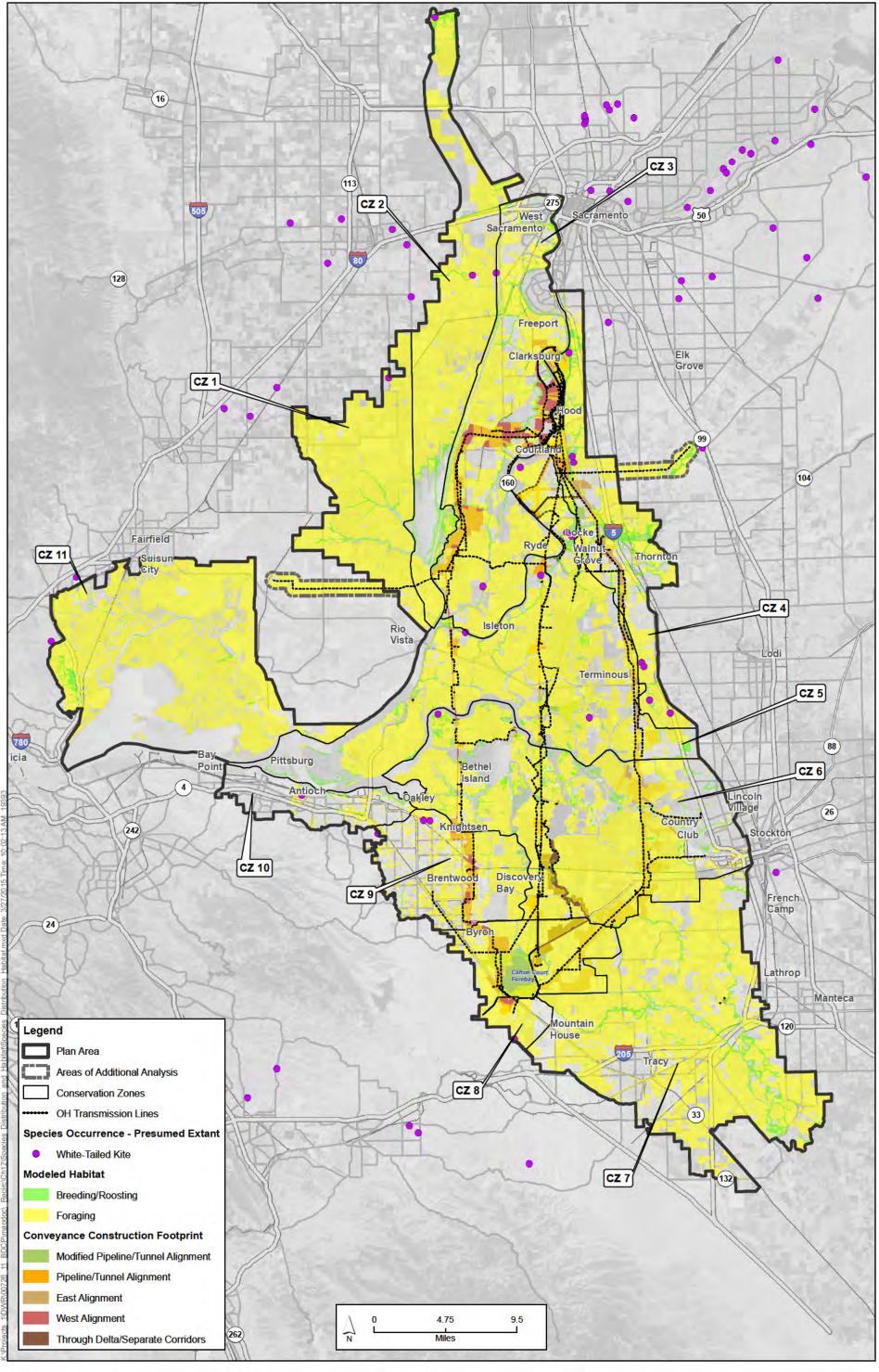
Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, ICF 2013; Modeled Habitat, ICF 2013; Conservation Zones, SAIC 2012.

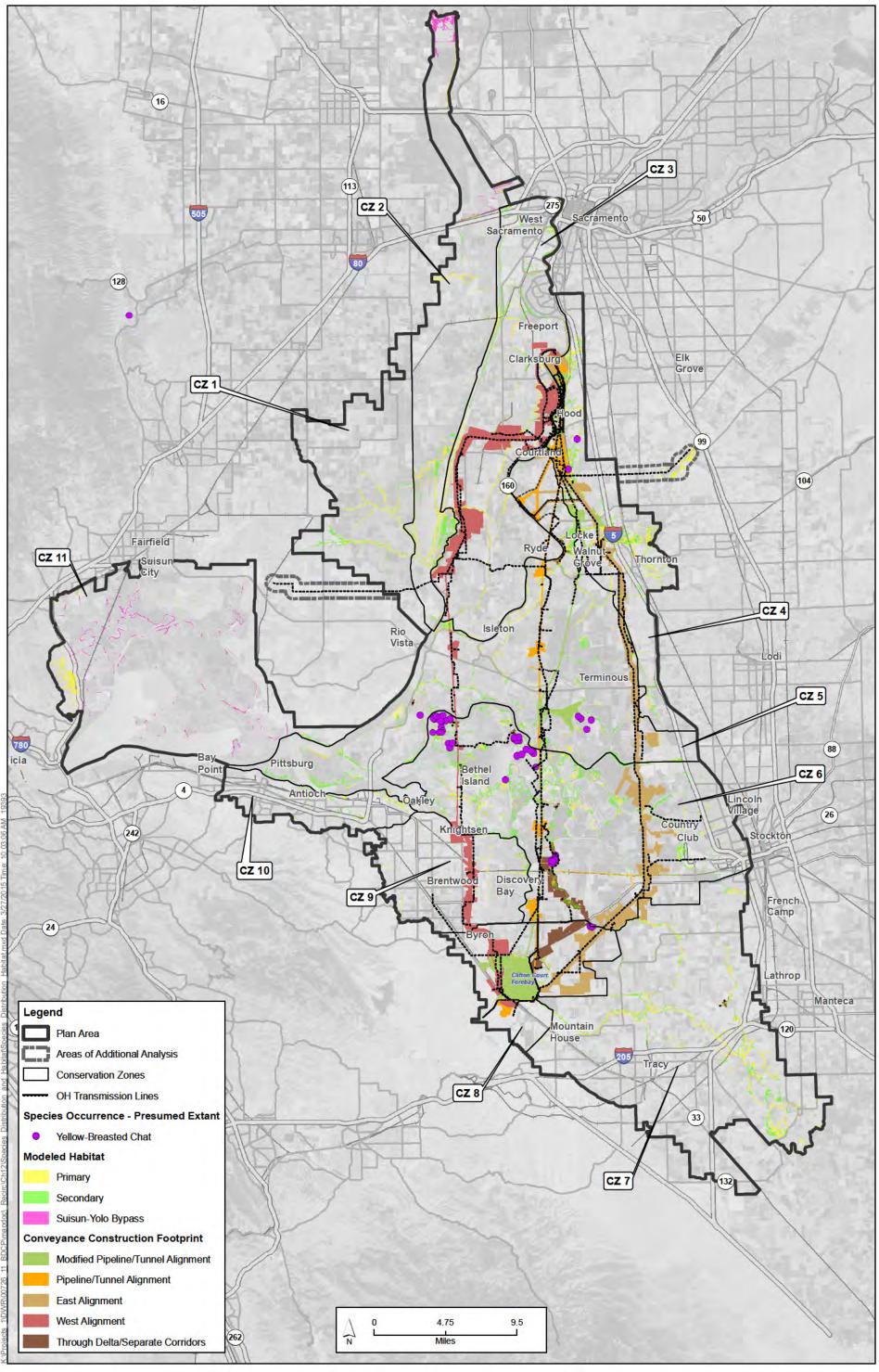
Figure 12-29
Western Burrowing Owl Distribution and Habitat in Study Area Vicinity

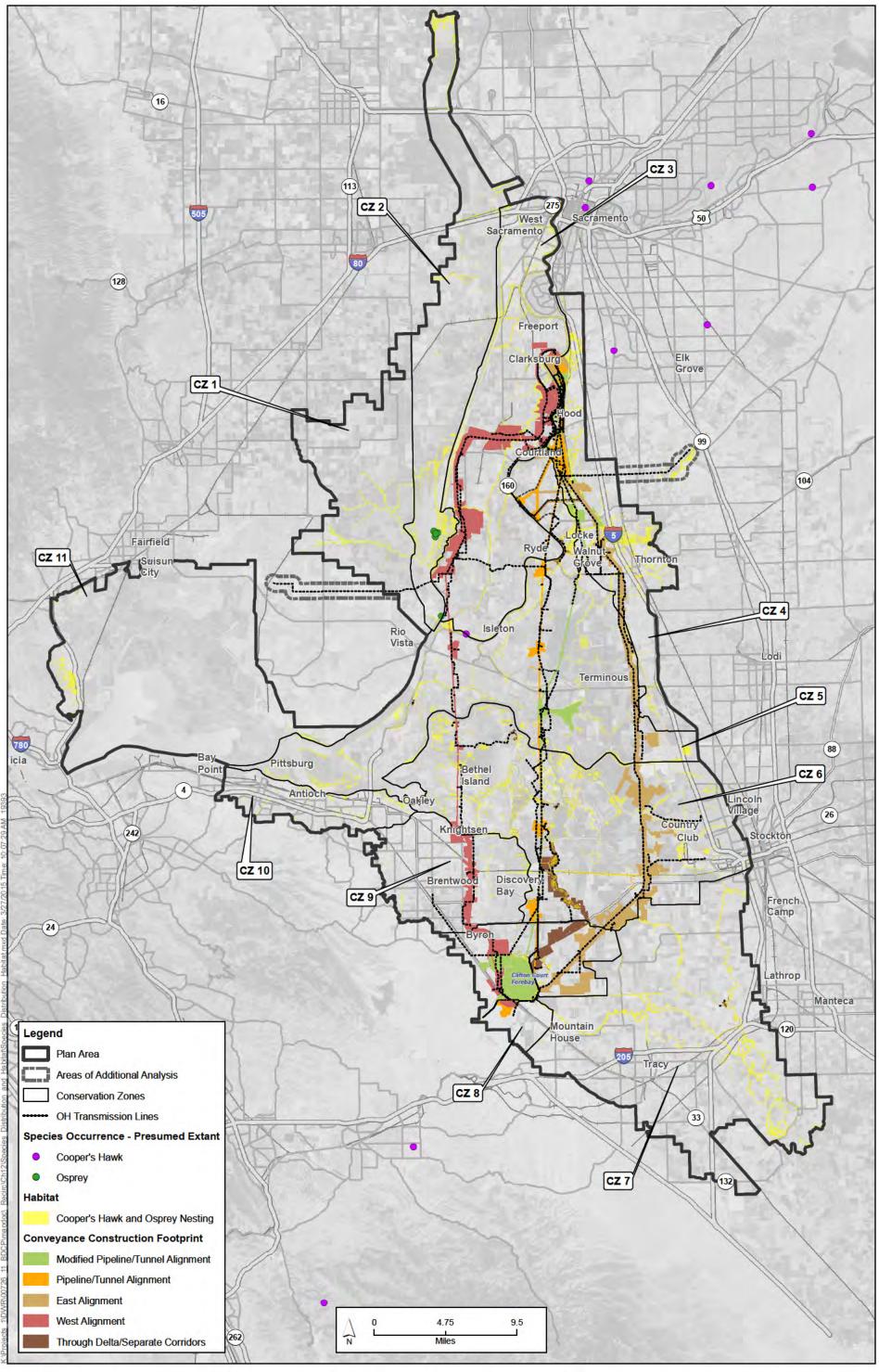


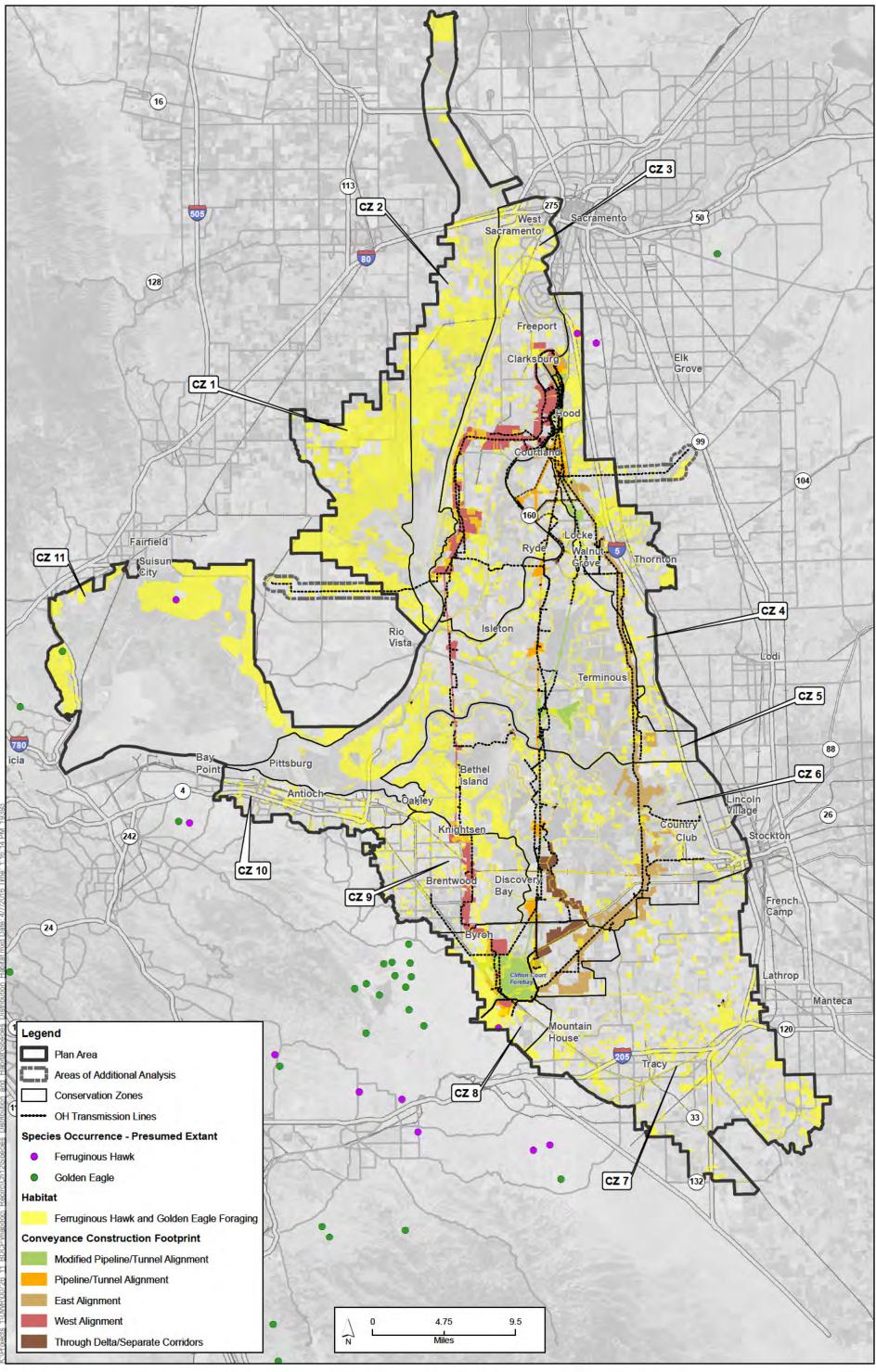
Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, ICF 2013; Modeled Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-30 Western Yellow-Billed Cuckoo Distribution and Habitat in Study Area Vicinity









Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, CNDDB 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-34 Ferruginous Hawk and Golden Eagle Distribution and Habitat in Study Area Vicinity

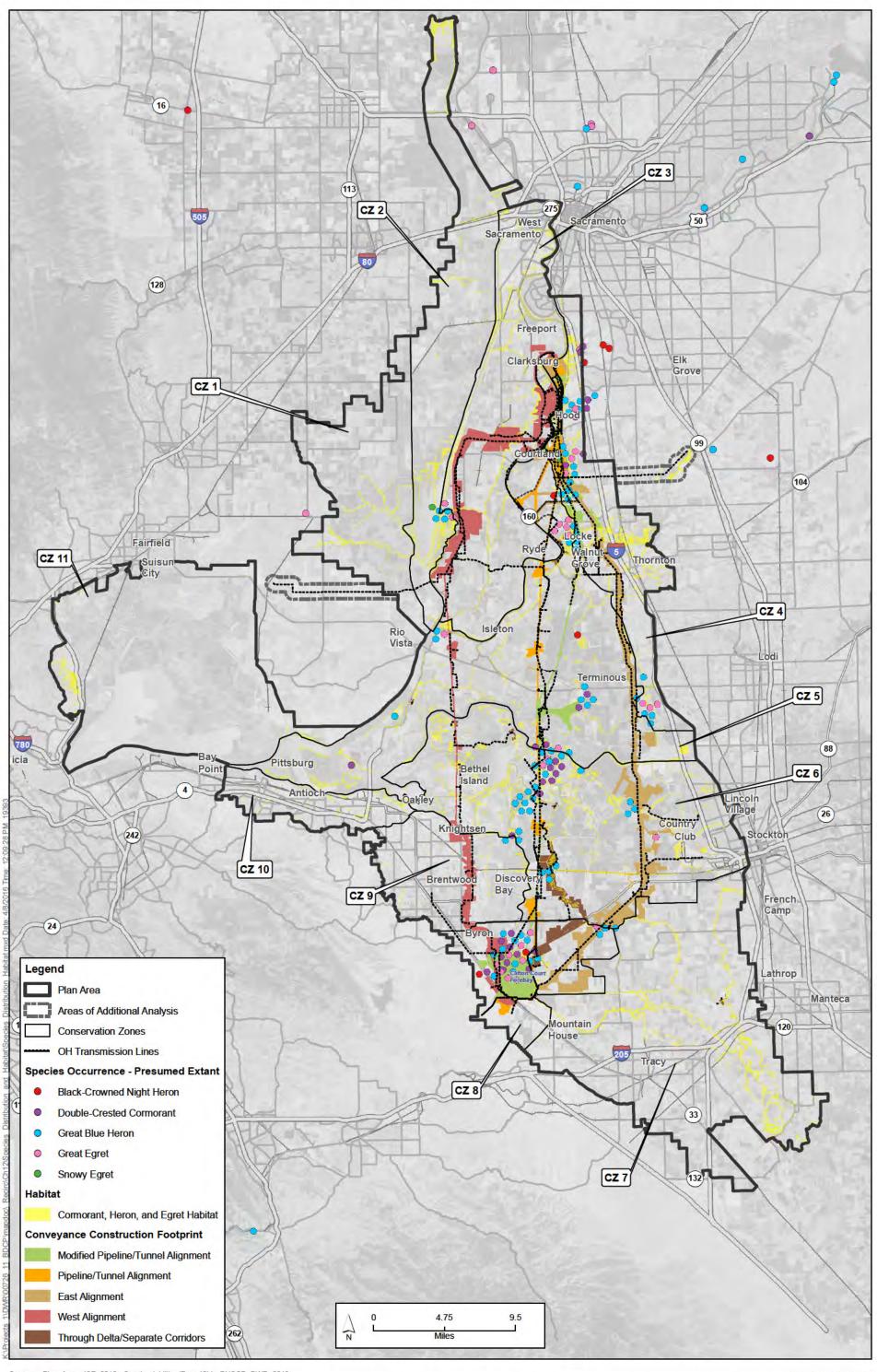
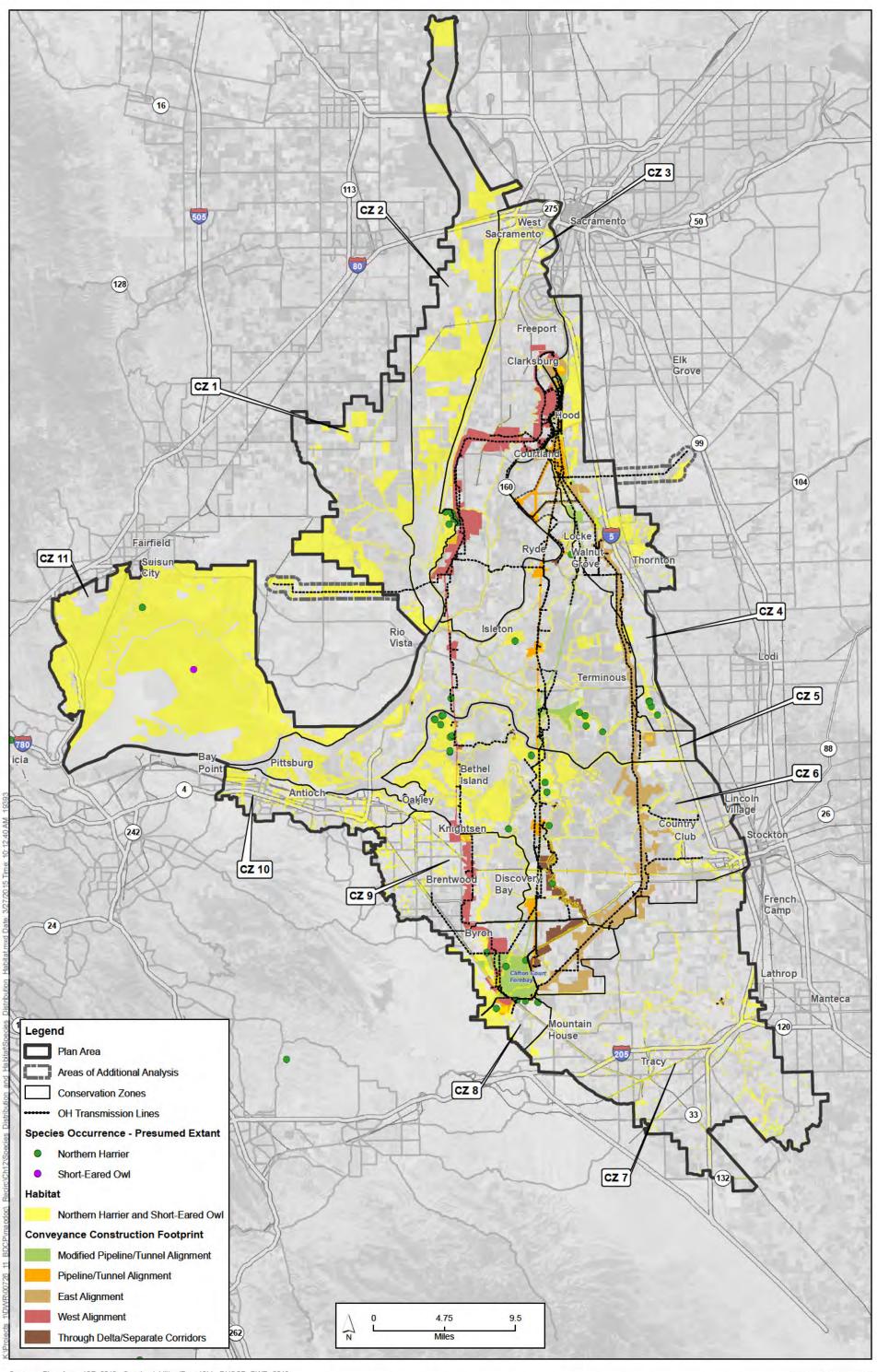
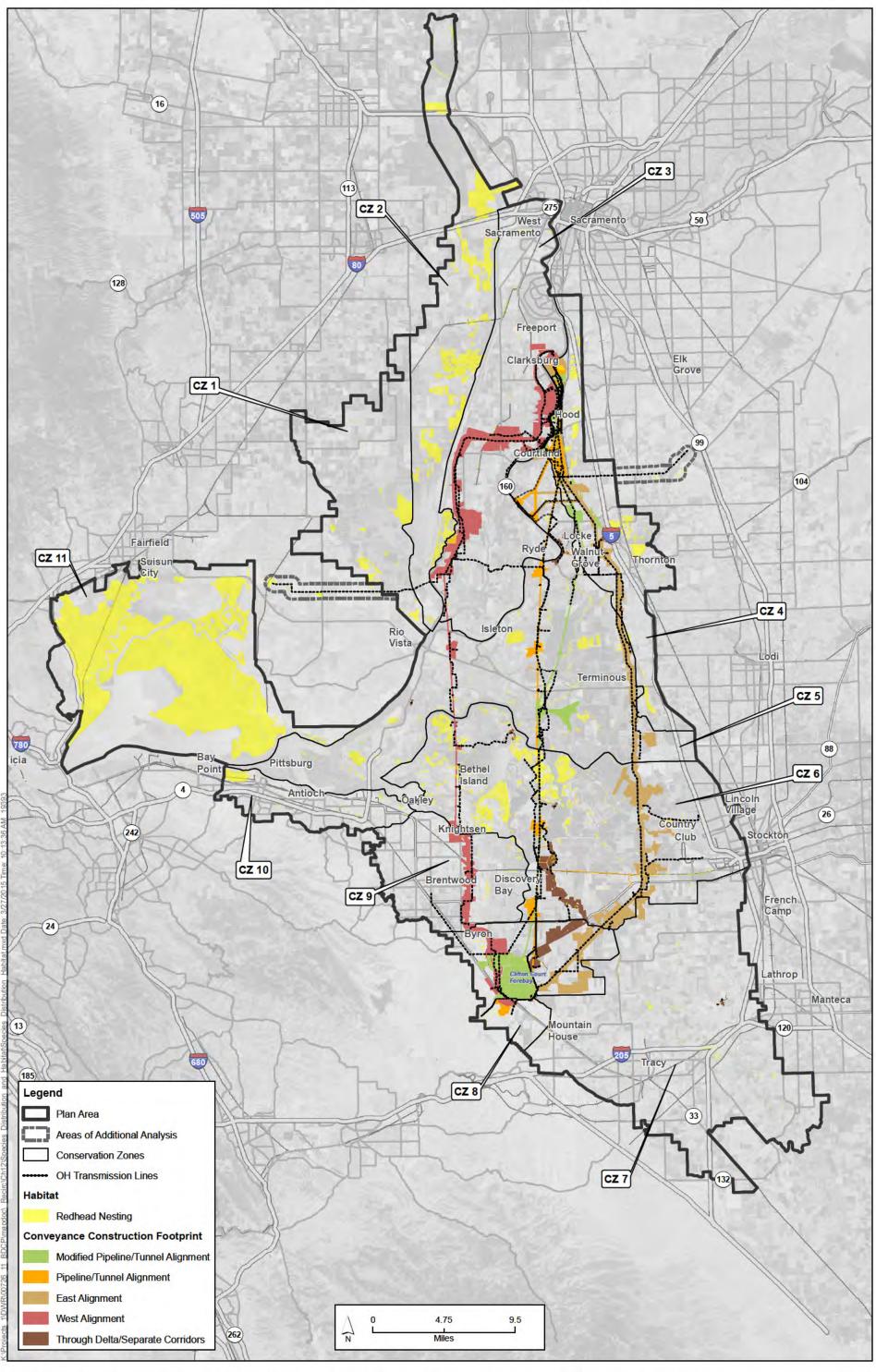


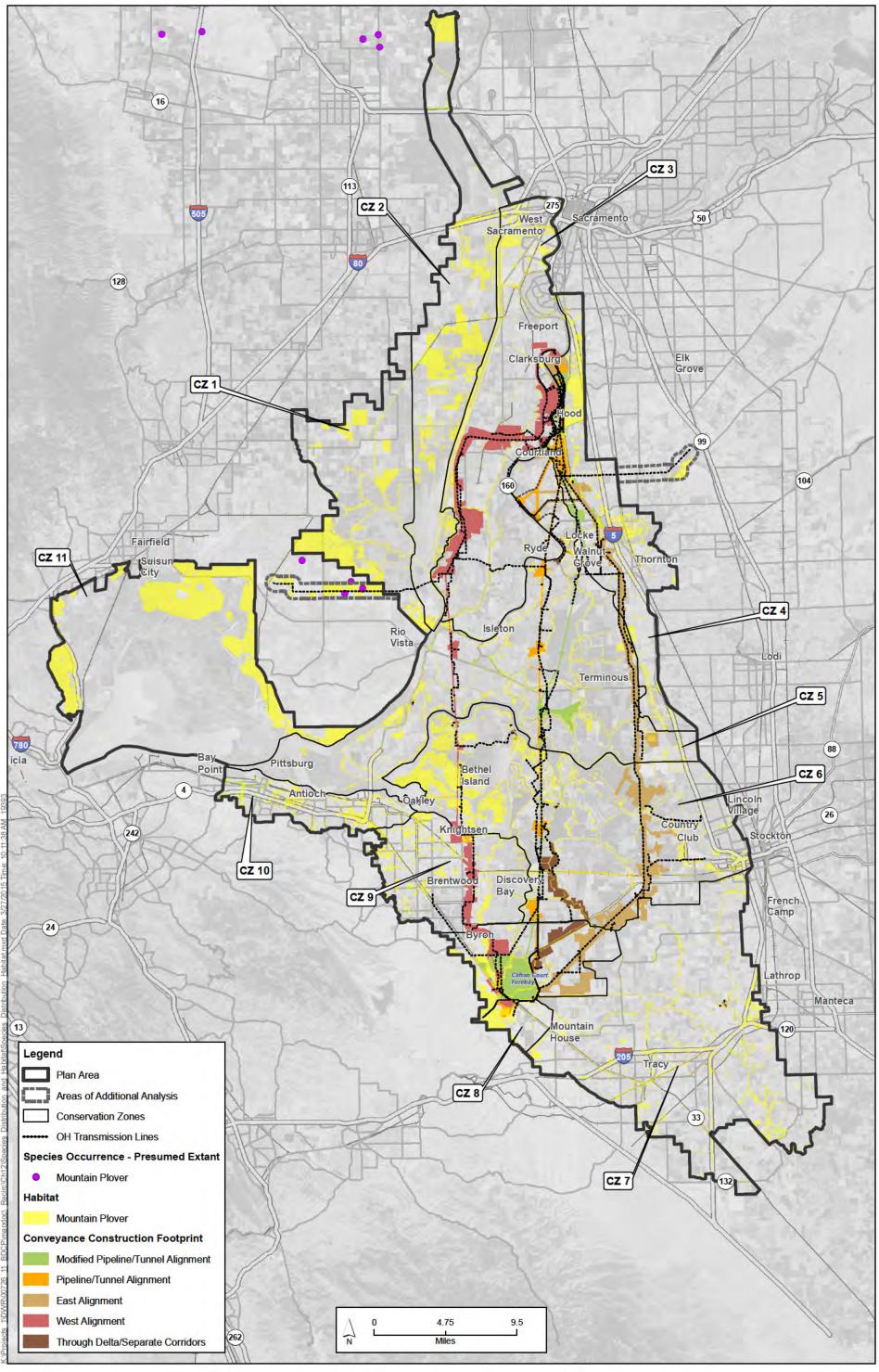
Figure 12-35 Cormorant, Heron and Egret Distribution and Habitat in Study Area Vicinity



Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, DHCCP DWR 2011 and CNDDB 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-36 Northern Harrier and Short-Eared Owl Distribution and Habitat in Study Area Vicinity





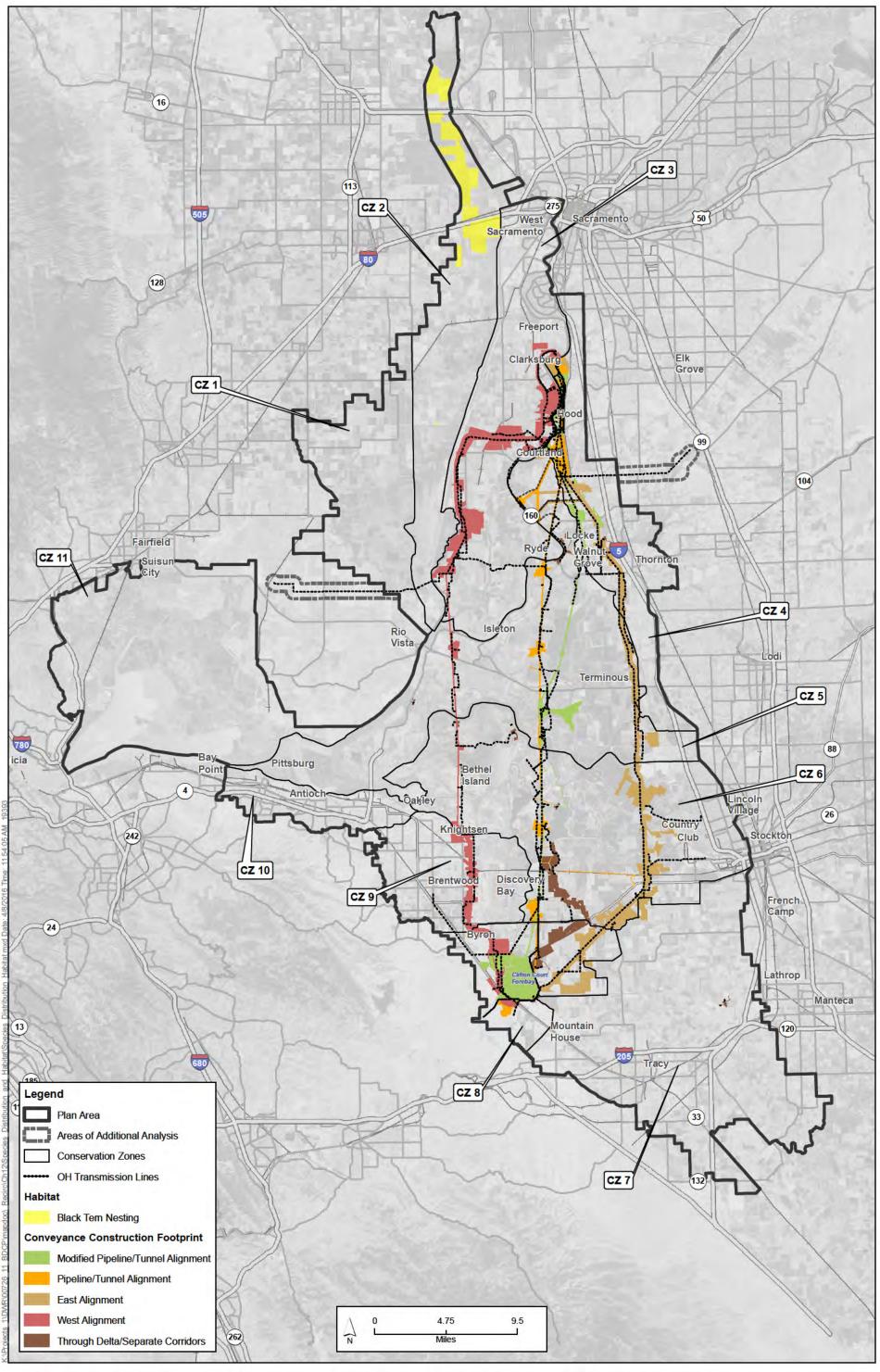
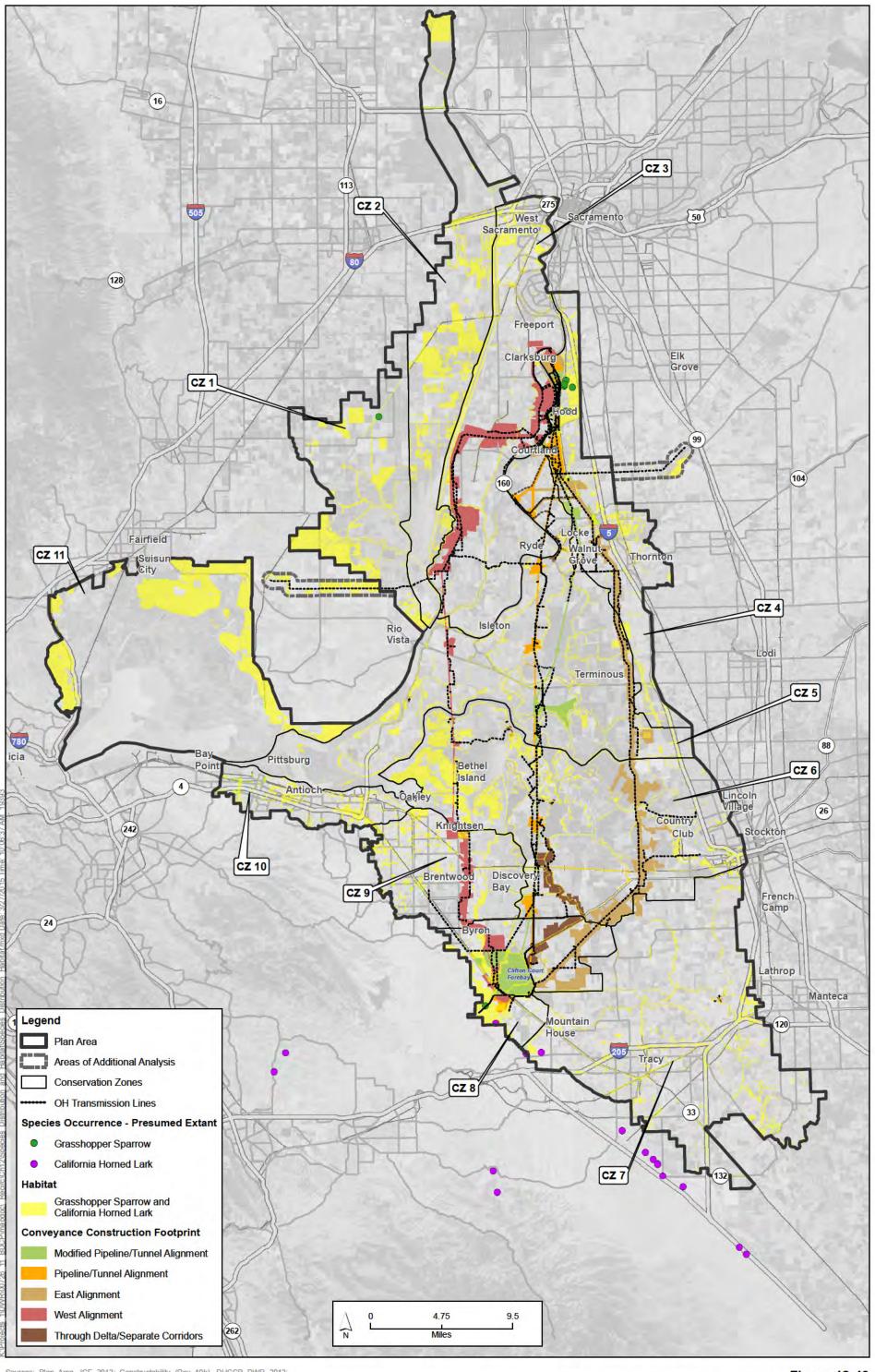
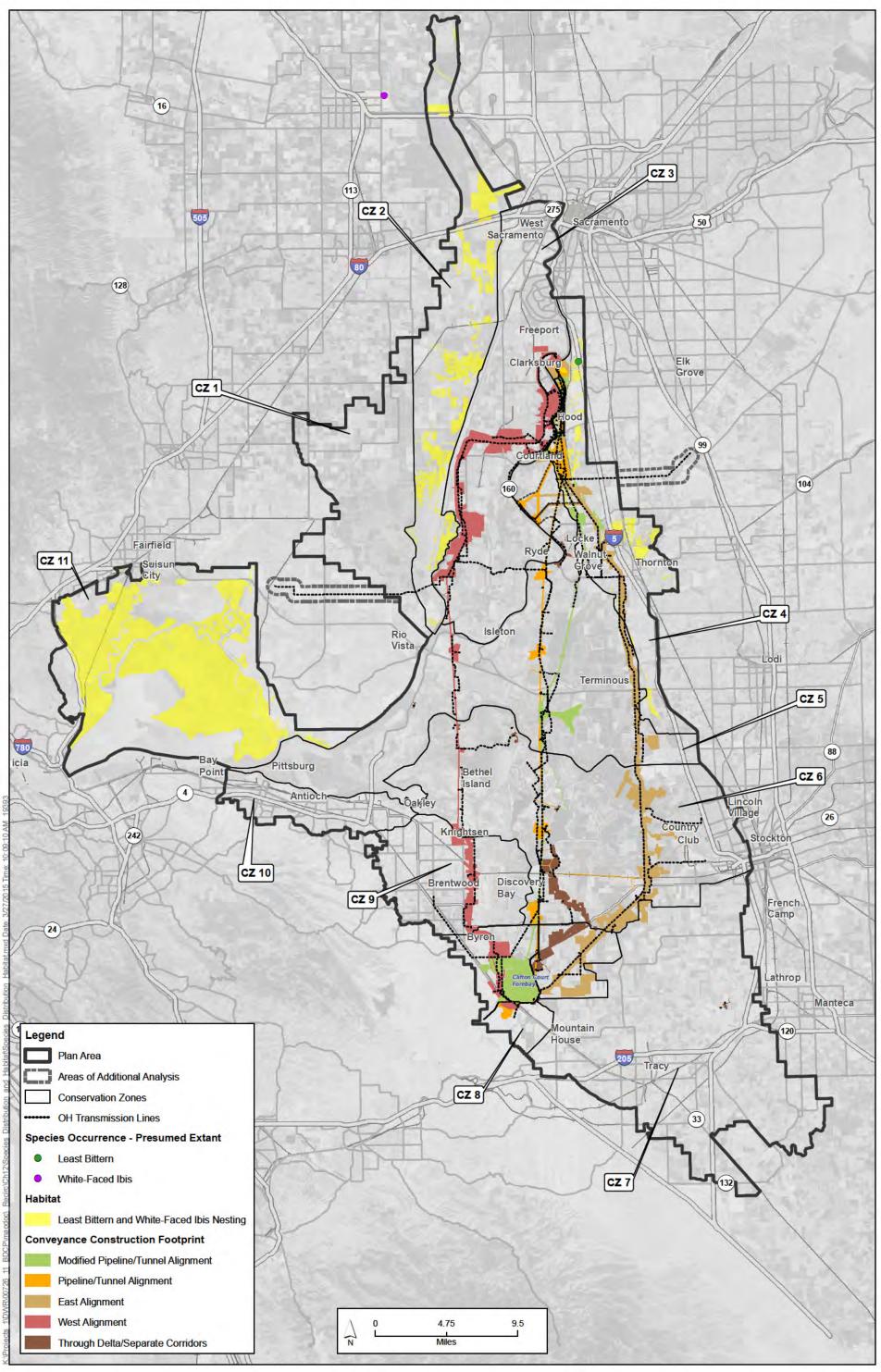


Figure 12-39 Black Tern Distribution and Habitat in Study Area Vicinity



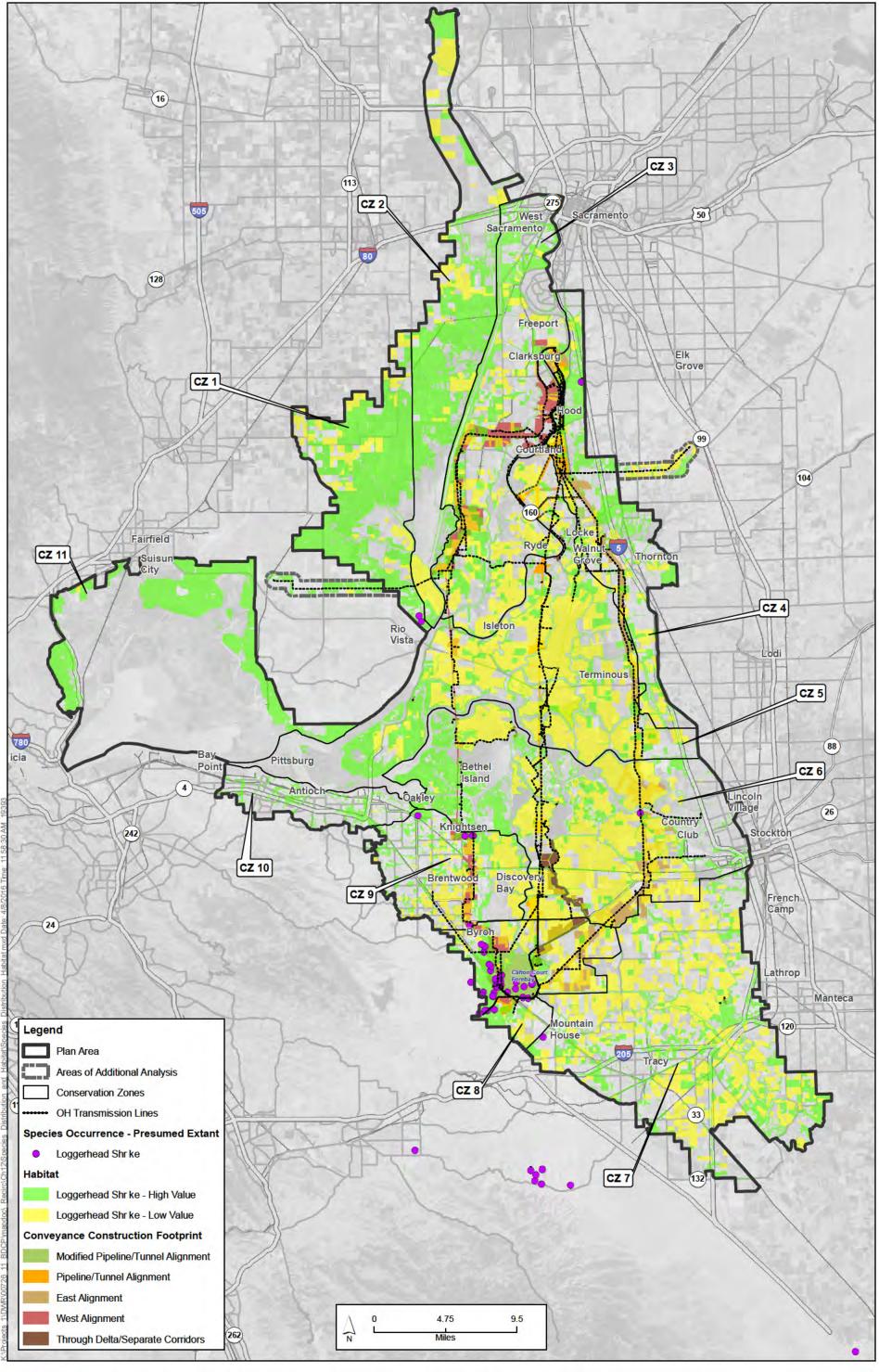
Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, DHCCP DWR 2011 and CNDDB 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-40 Grasshopper Sparrow and California Horned Lark Distribution and Habitat in Study Area Vicinity



Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, DHCCP DWR 2011 and CNDDB 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-41 Least Bittern and White-Faced Ibis Distribution and Habitat in Study Area Vicinity



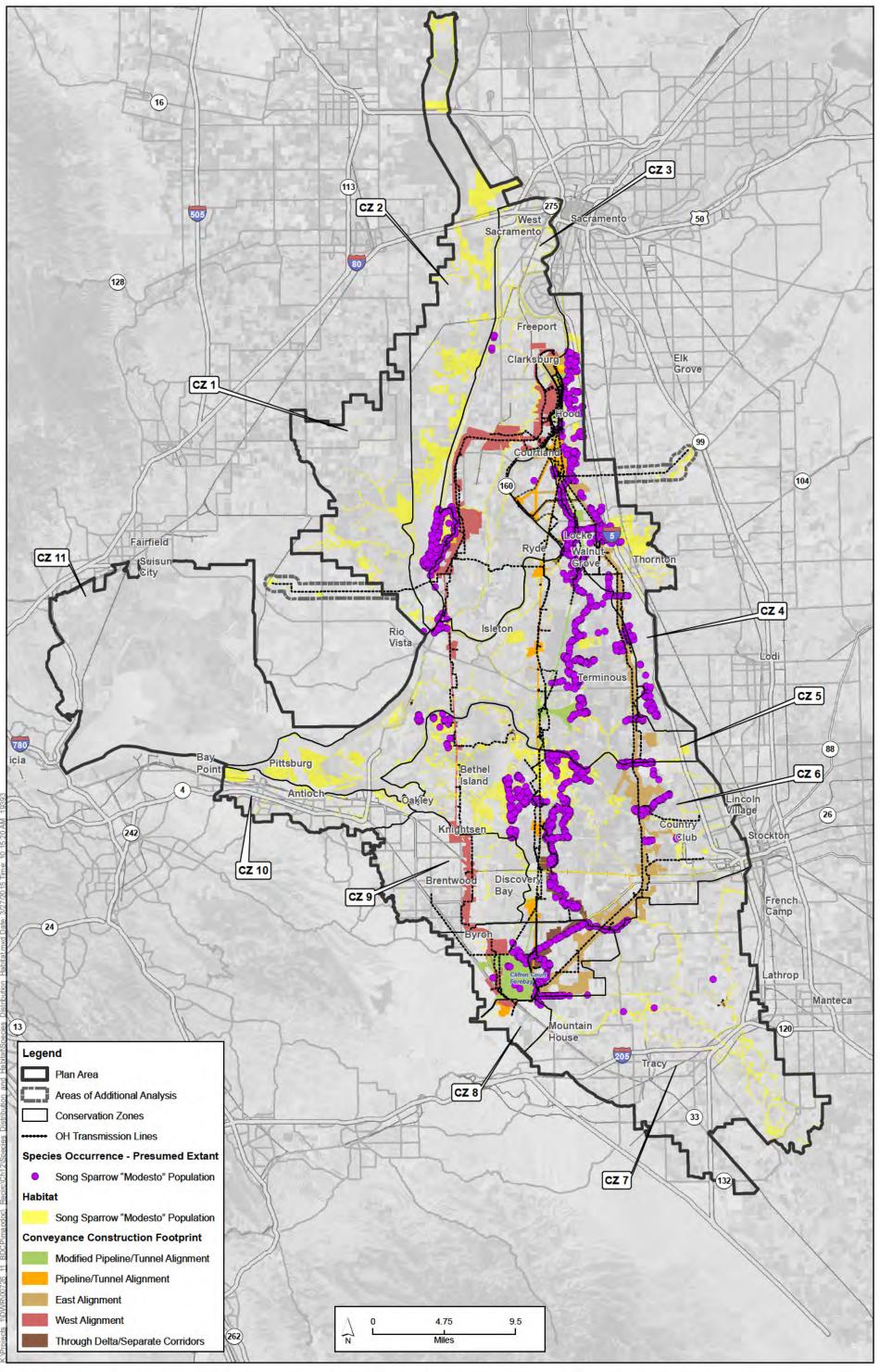


Figure 12-43 Song Sparrow "Modesto" Population Distribution and Habitat in Study Area Vicinity

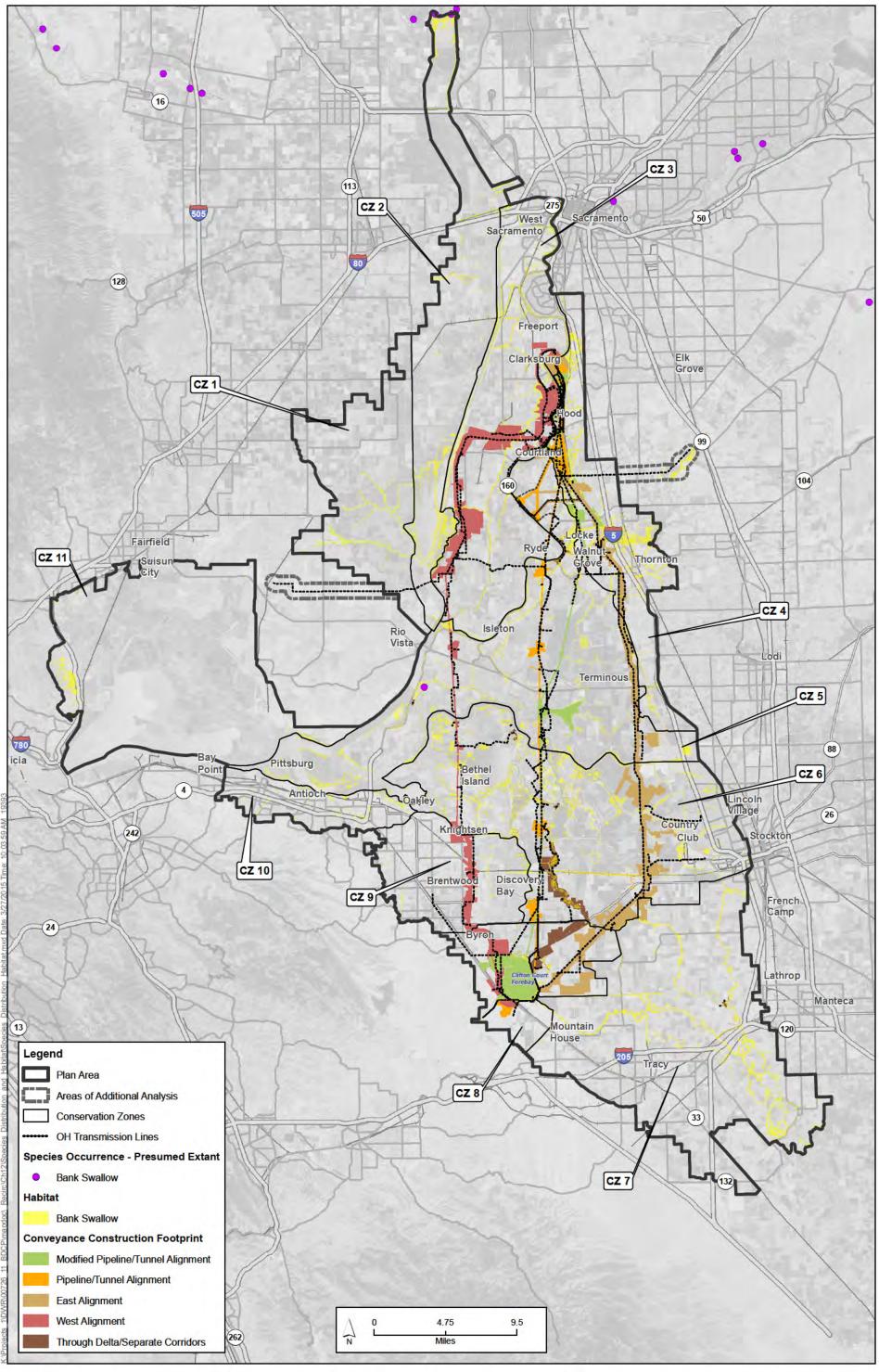
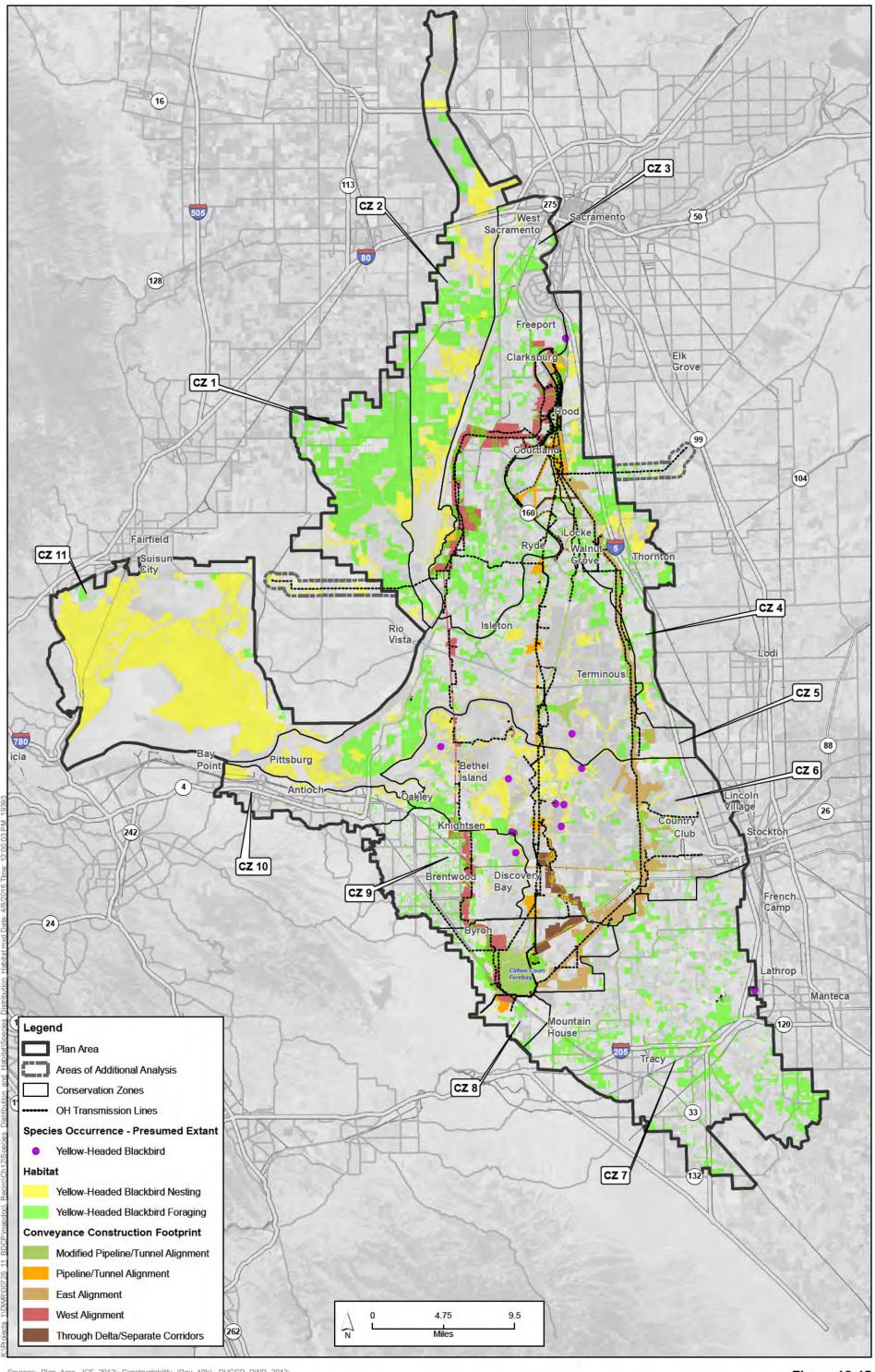


Figure 12-44
Bank Swallow Distribution and Habitat in Study Area Vicinity



Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, DHCCP DWR 2011 and CNDDB 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-45 Yellow-Headed Blackbird Distribution and Habitat in Study Area Vicinity

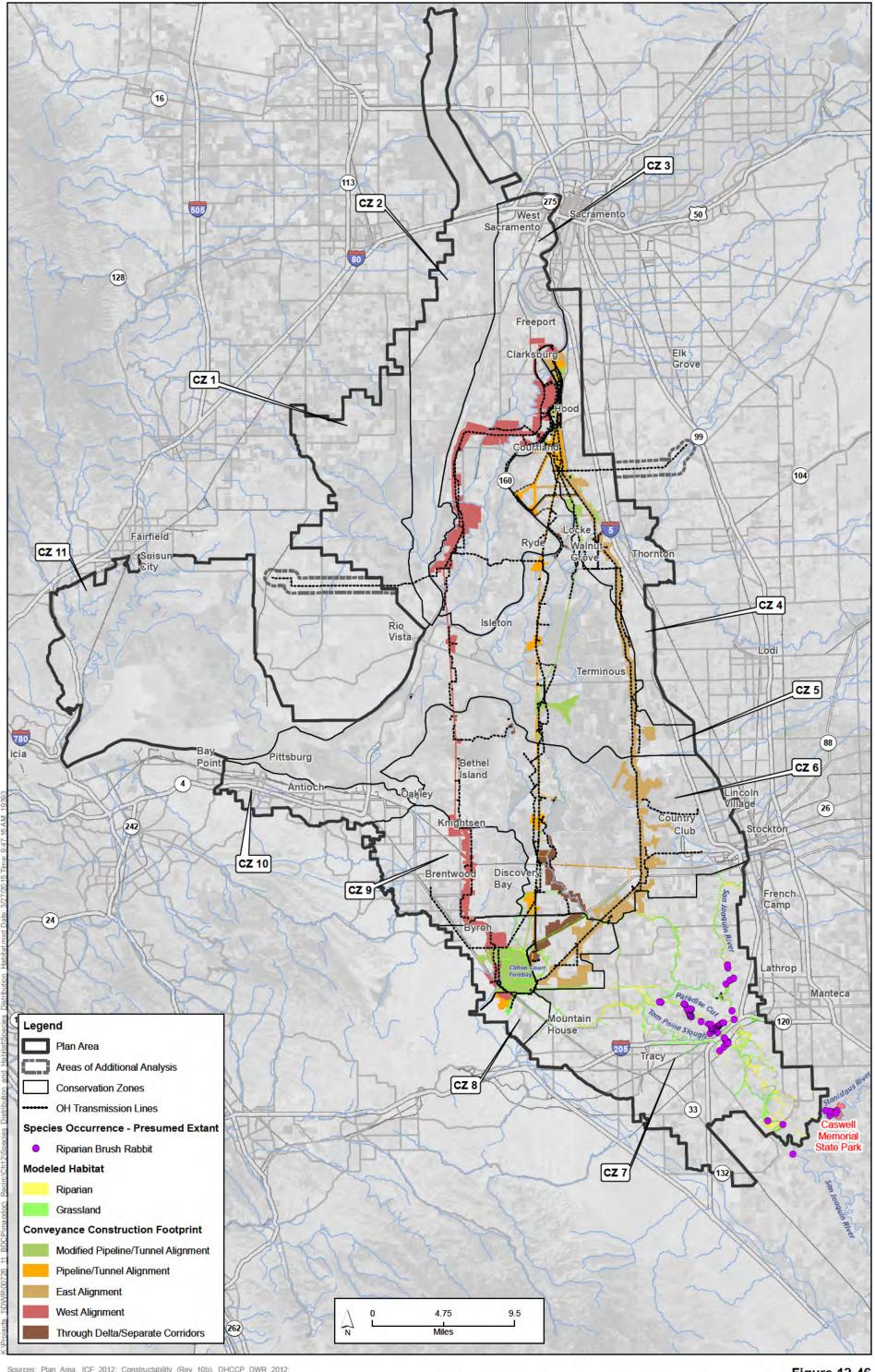


Figure 12-46 Riparian Brush Rabbit Distribution and Habitat in Study Area Vicinity

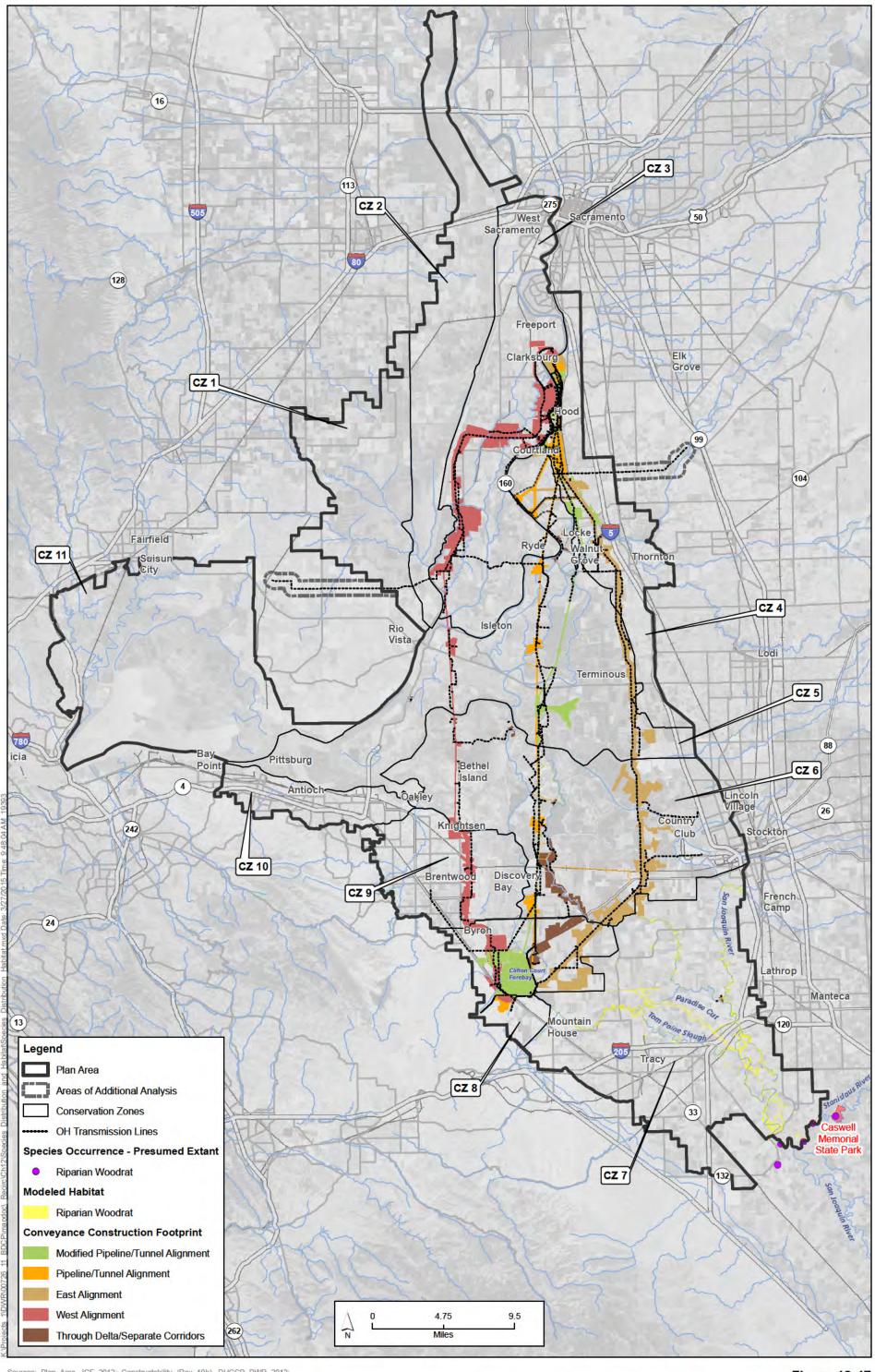
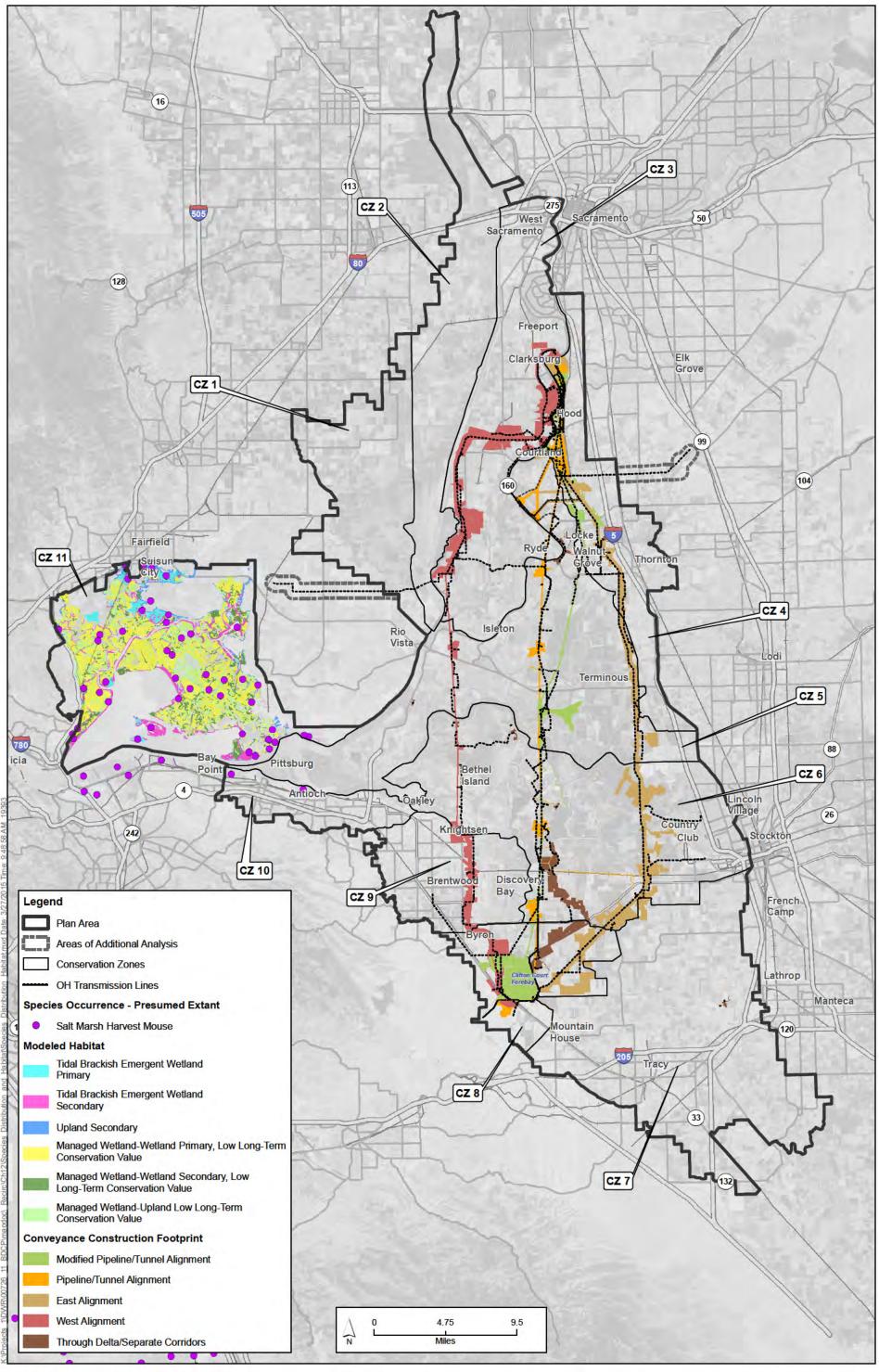


Figure 12-47 Riparian Woodrat Distribution and Habitat in Study Area Vicinity



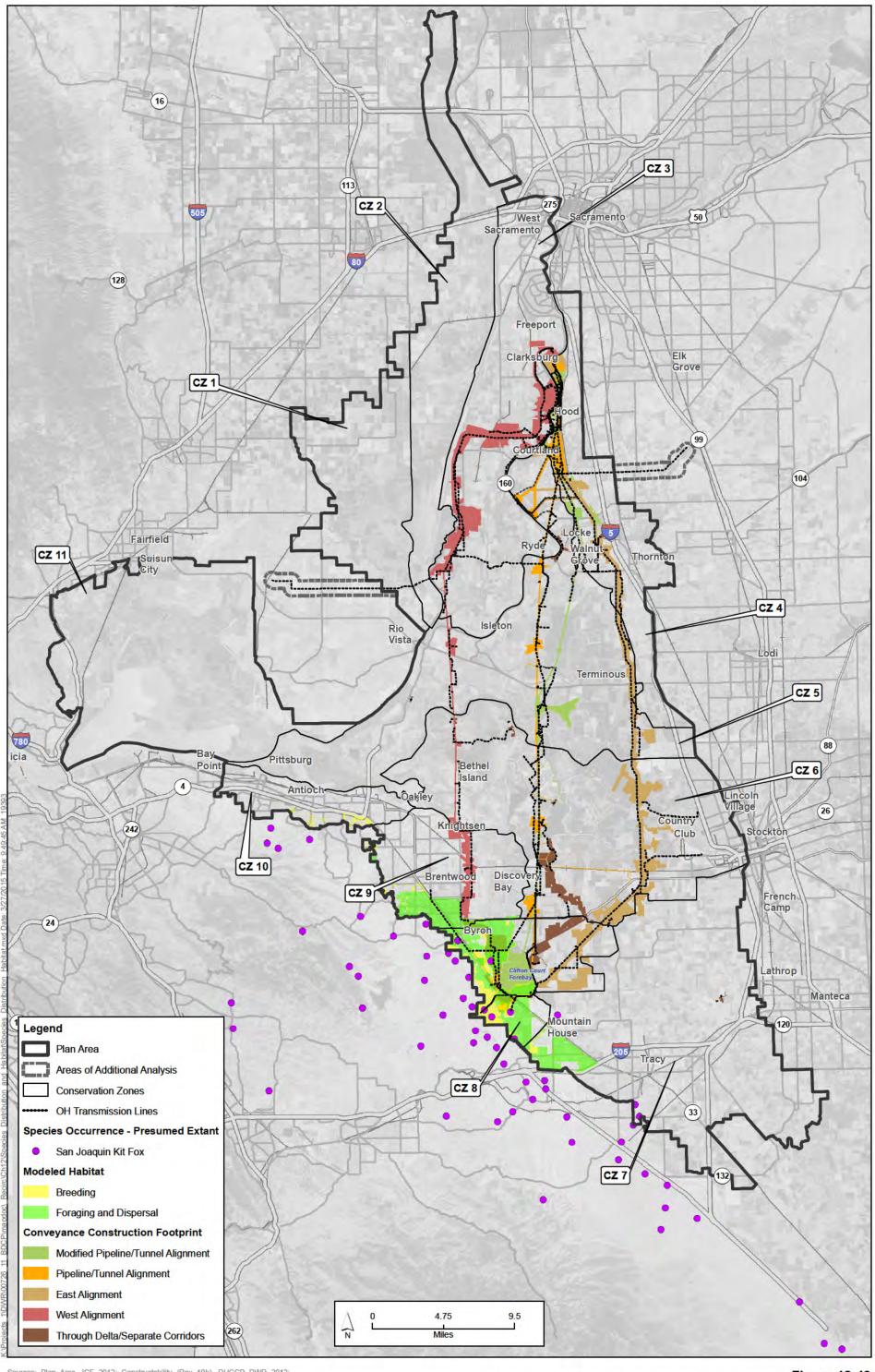
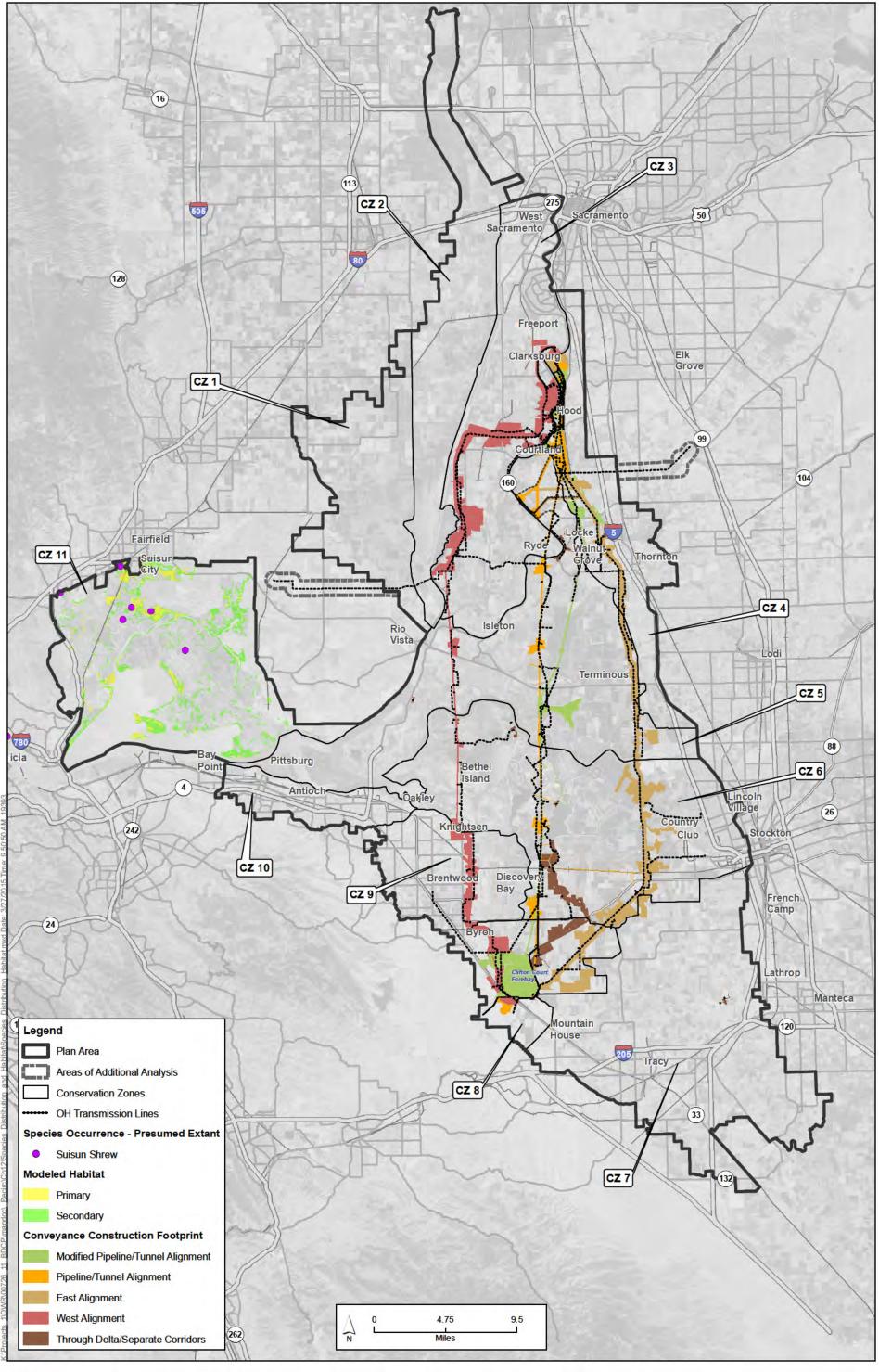
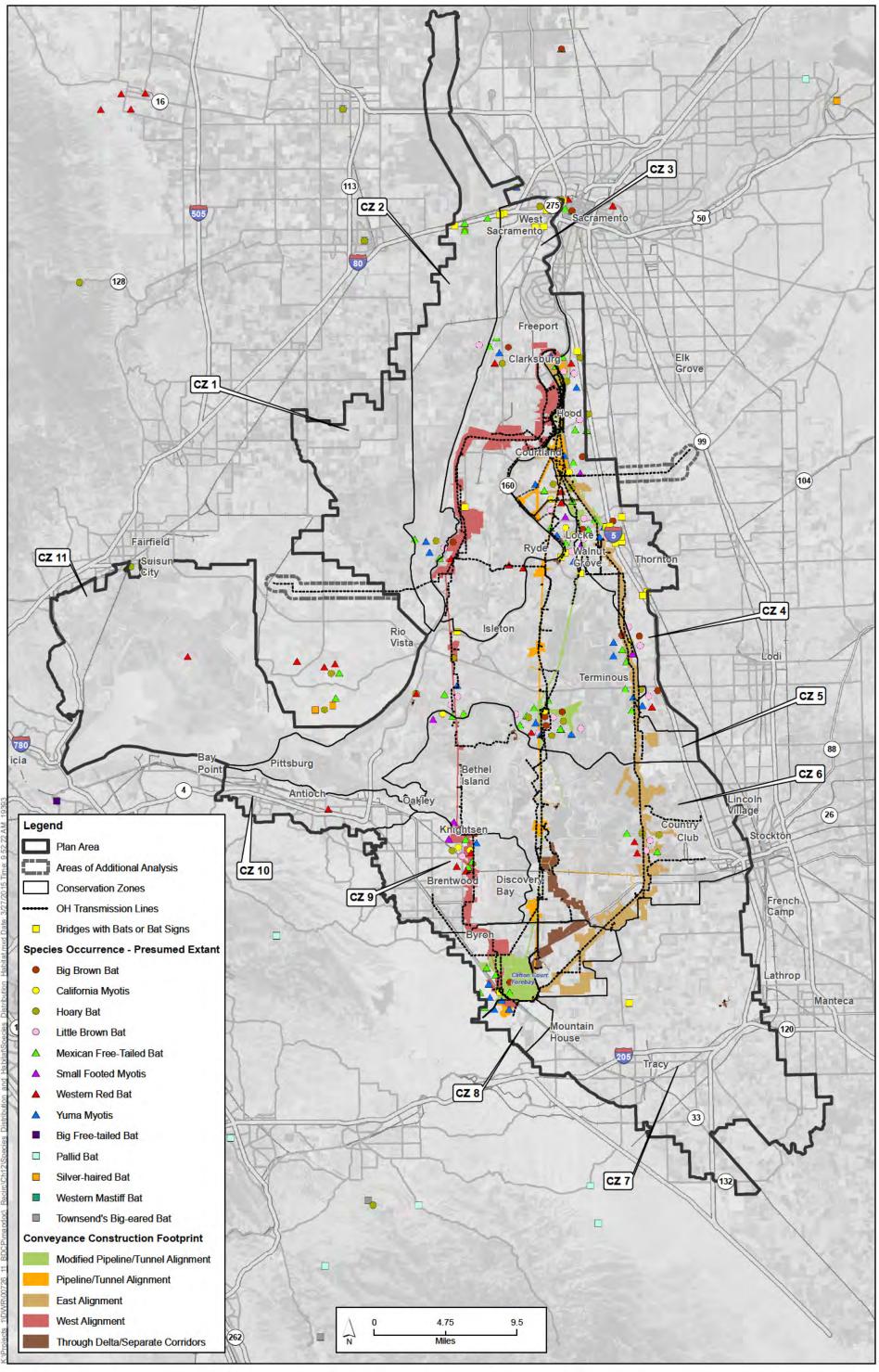
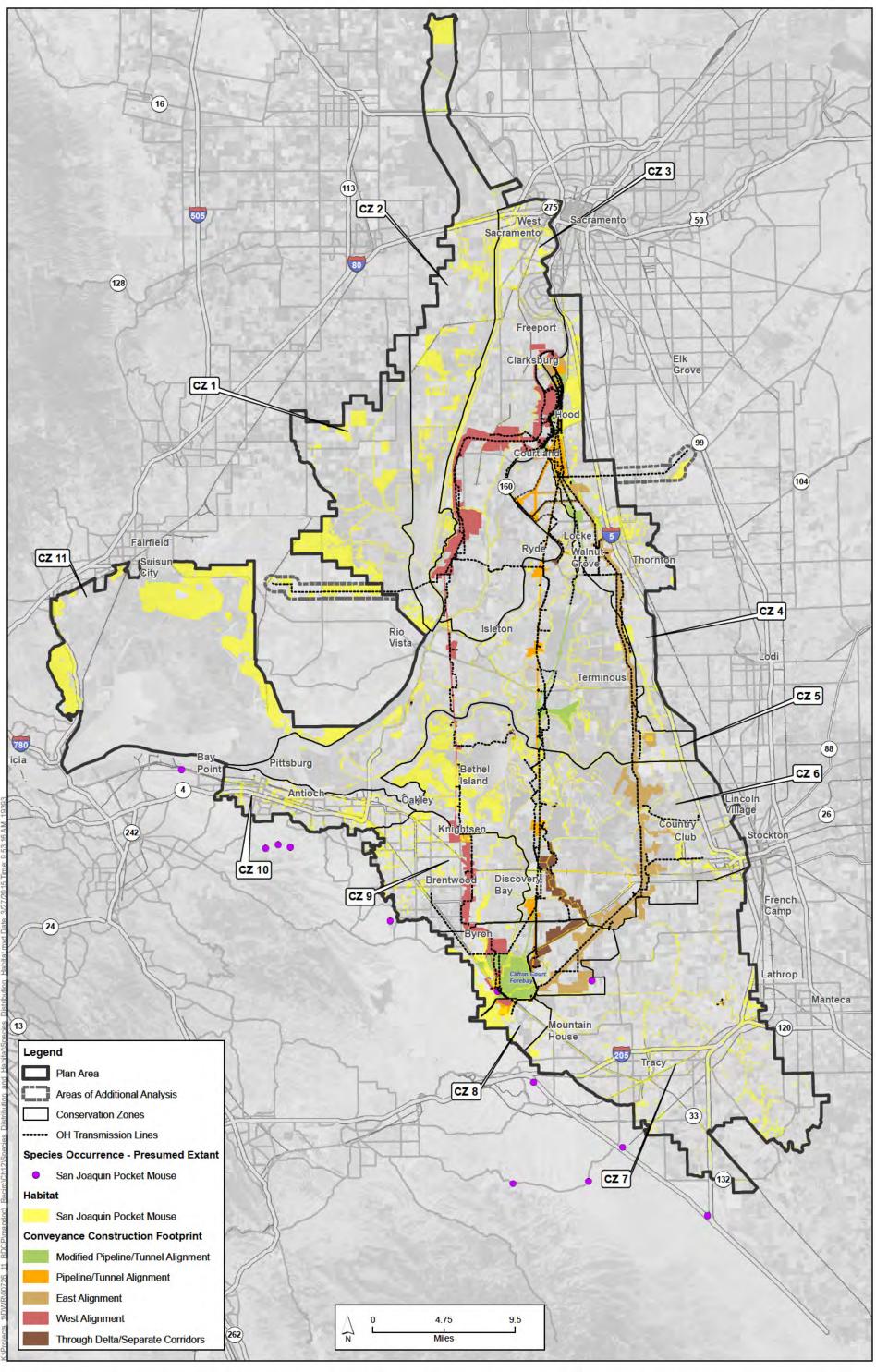
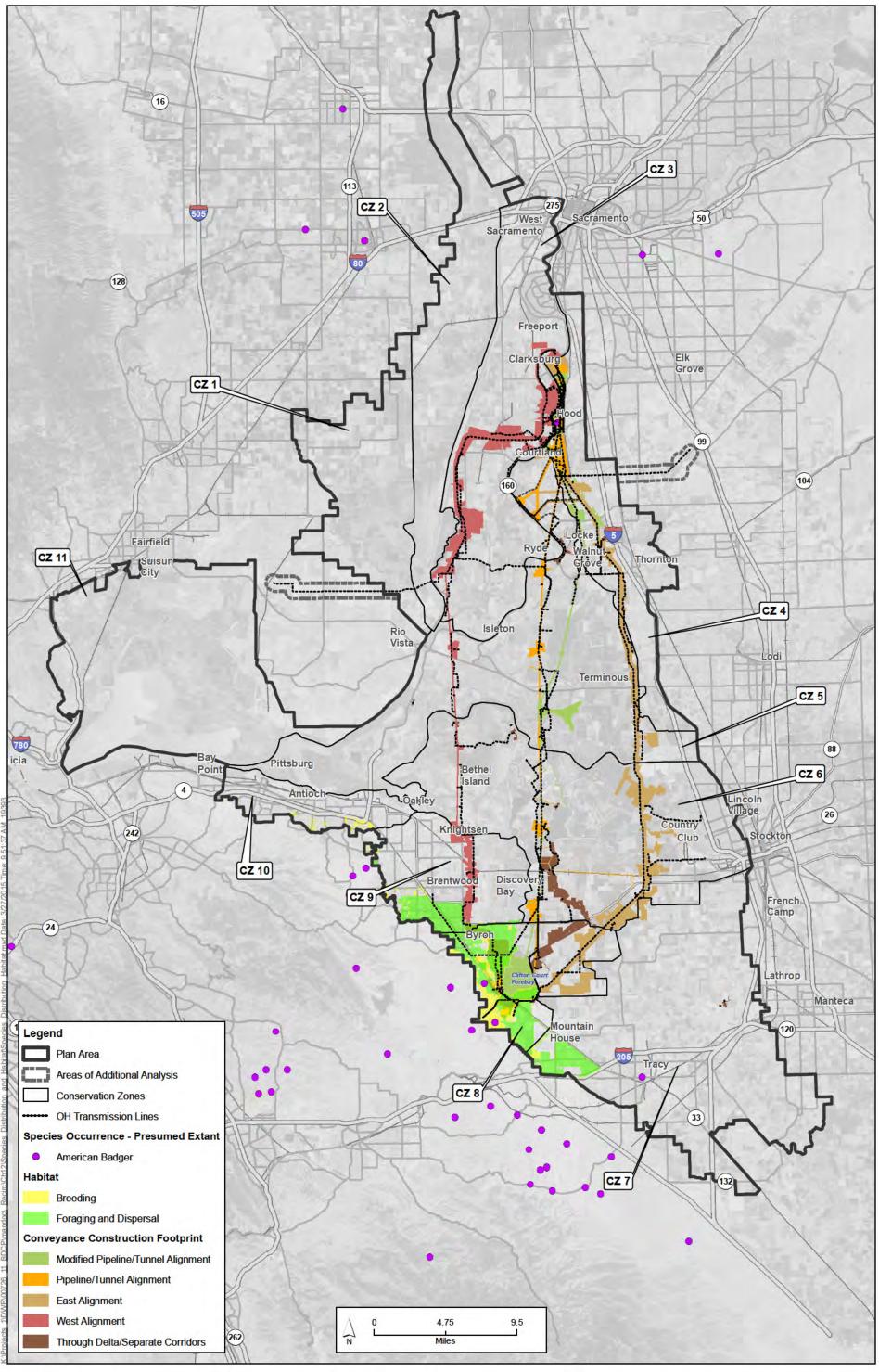


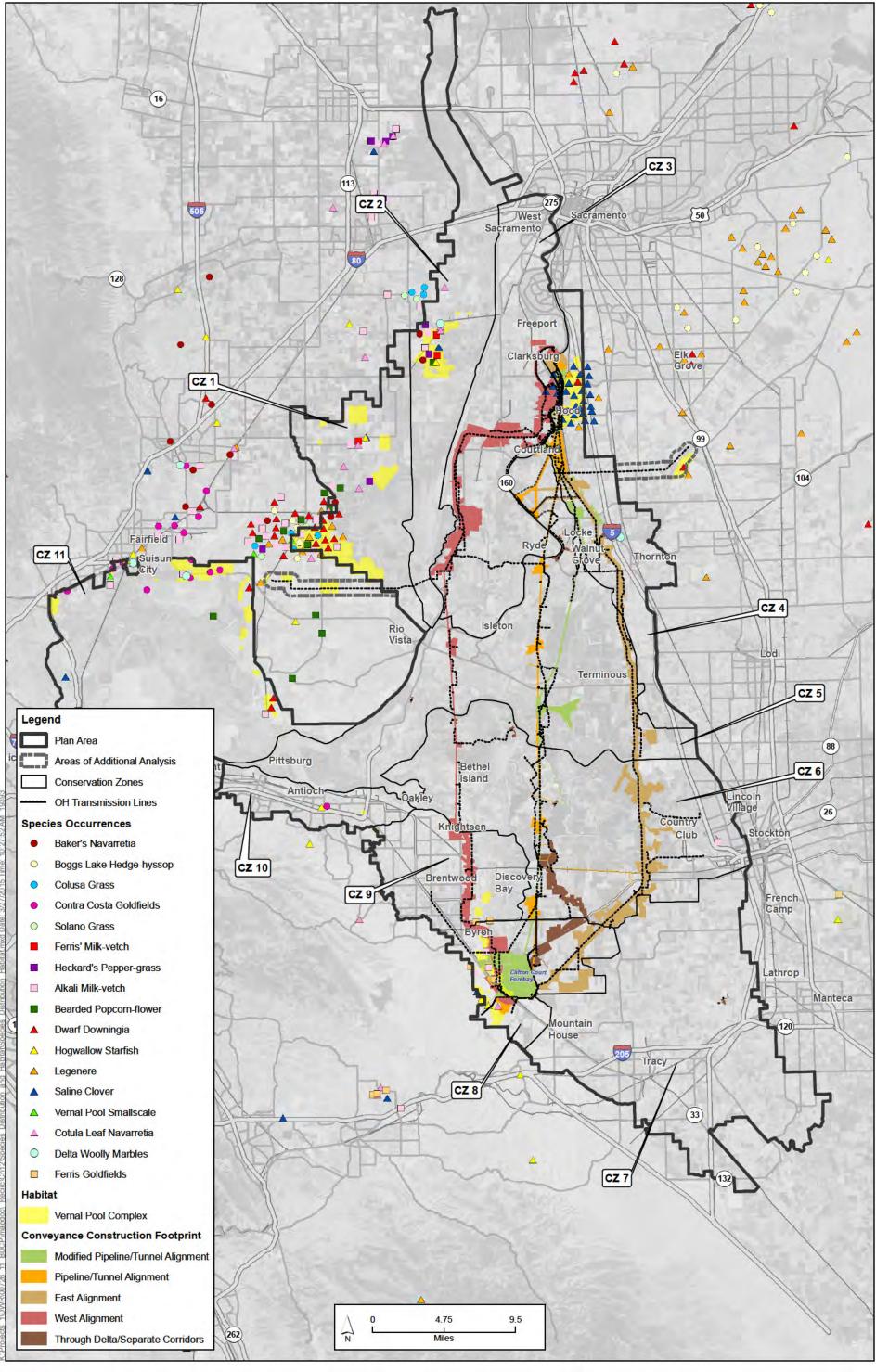
Figure 12-49 San Joaquin Kit Fox Distribution and Habitat in Study Area Vicinity





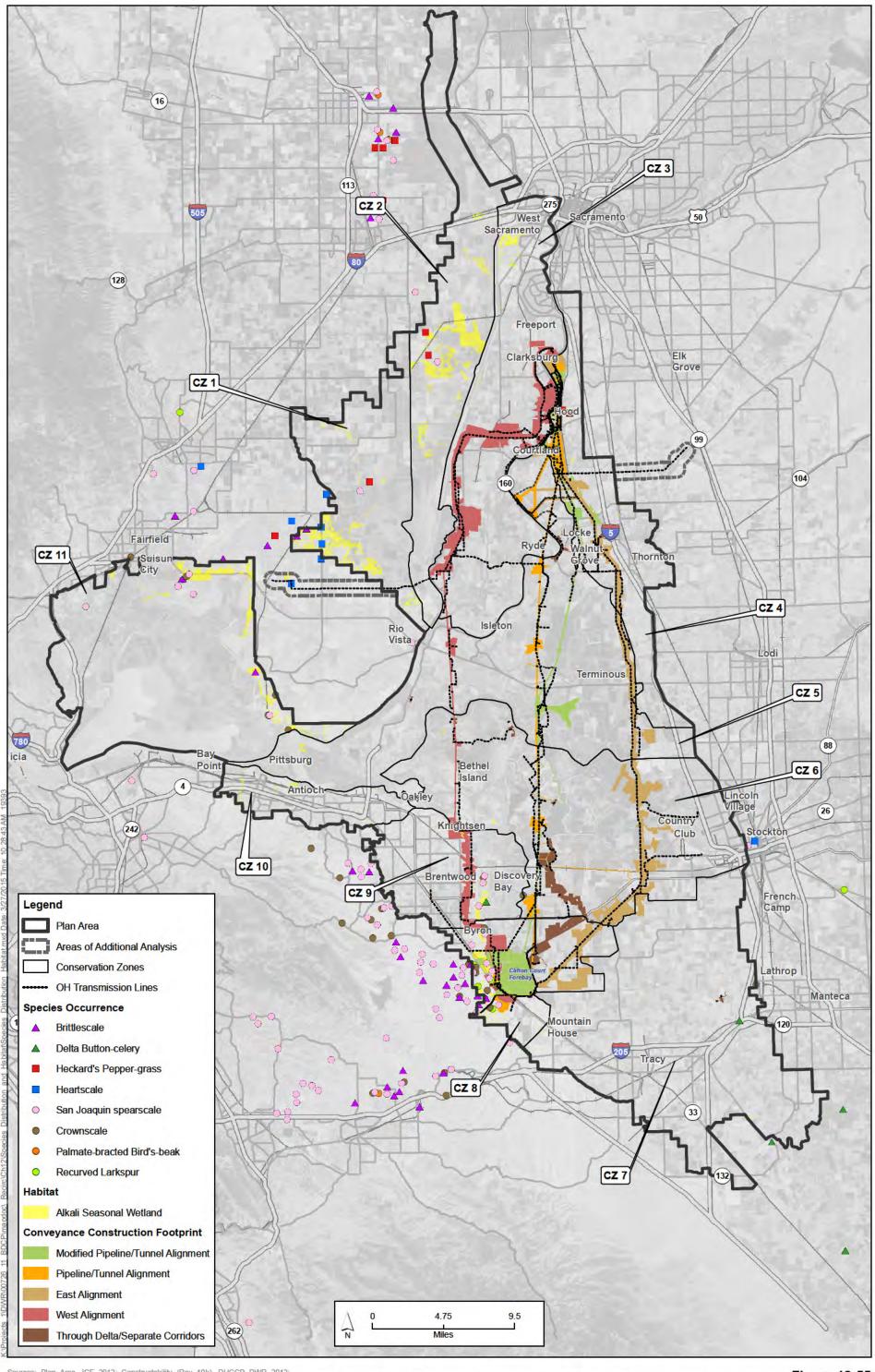






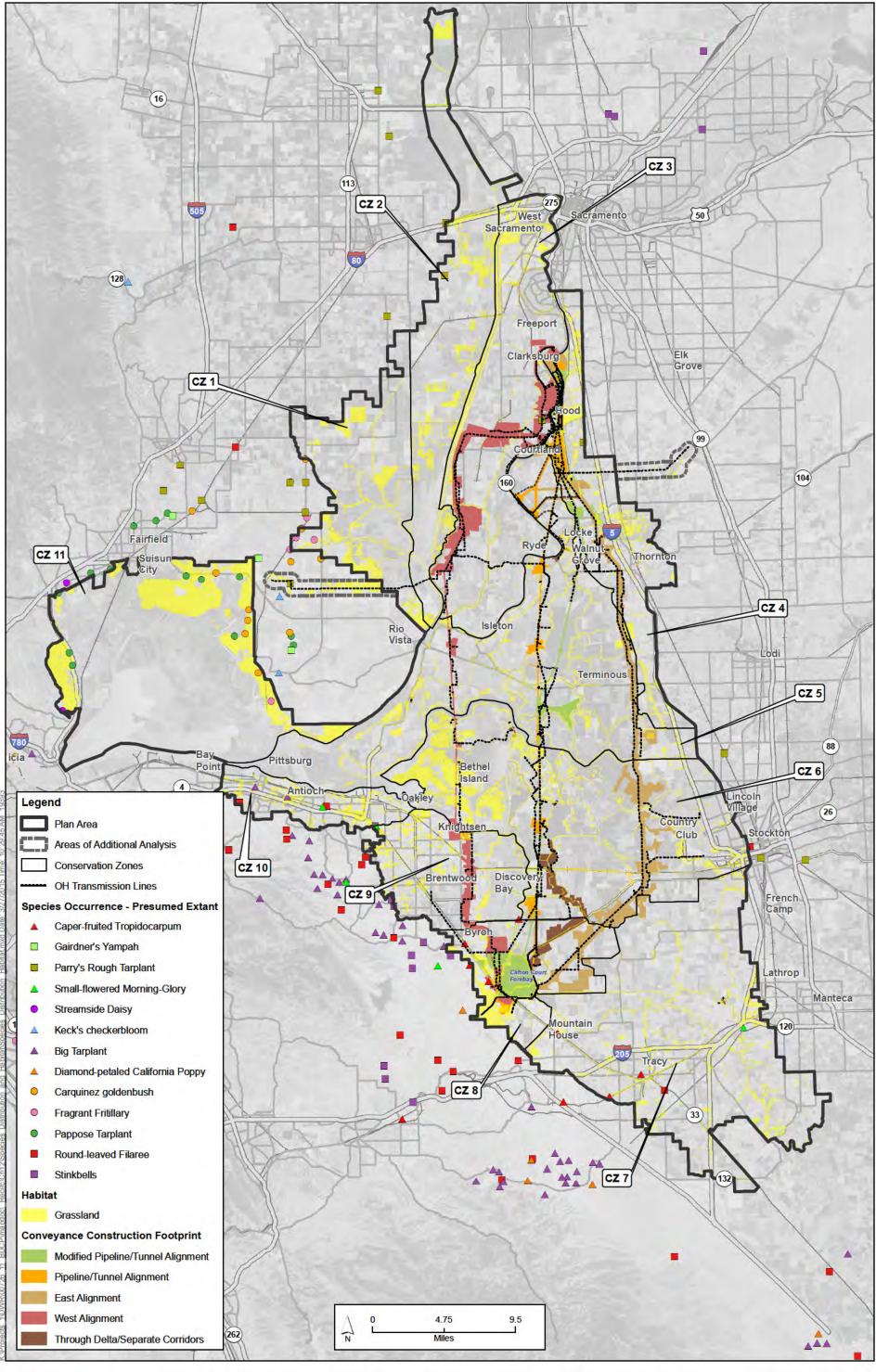
Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, ICF 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

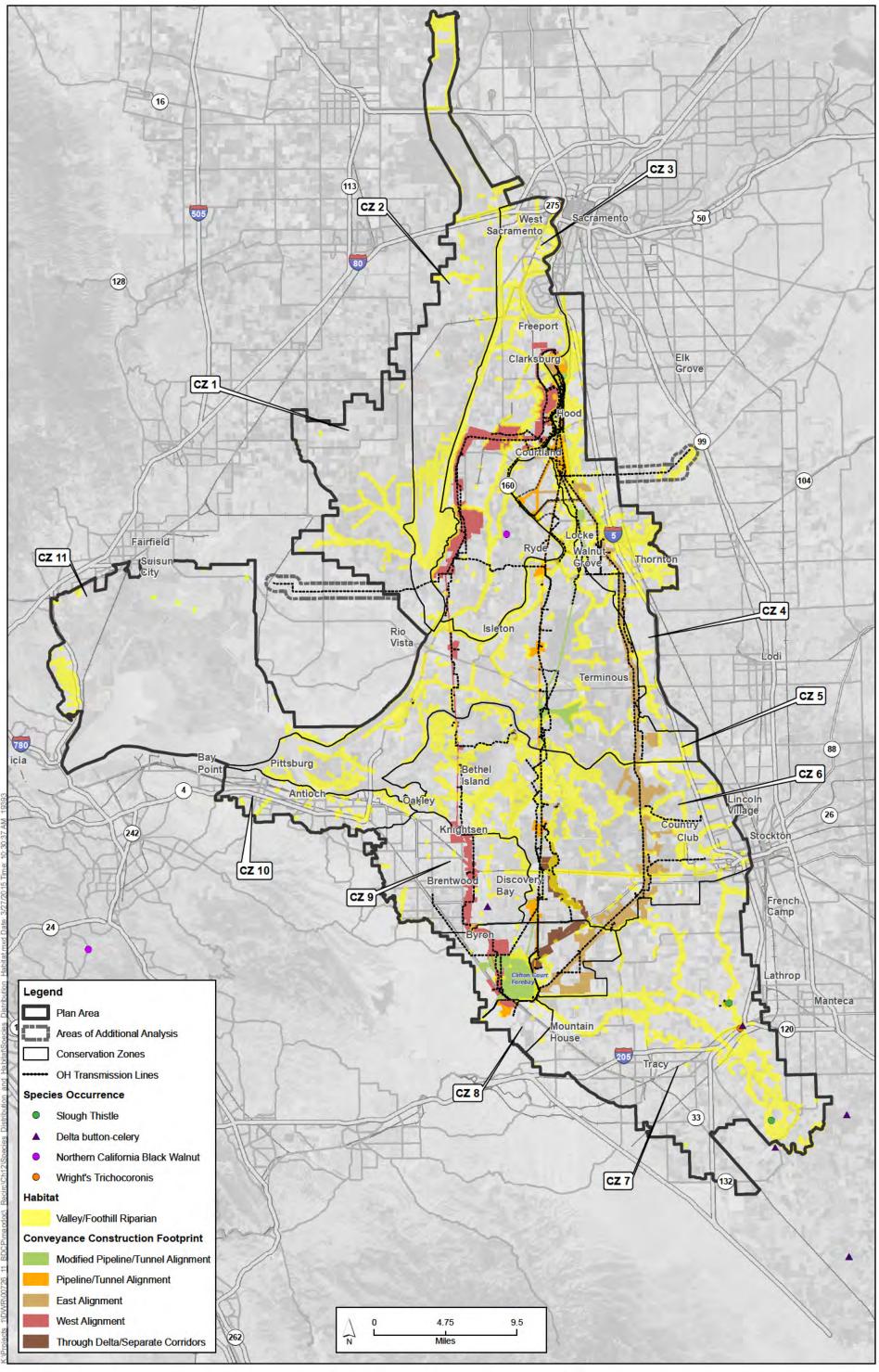
Figure 12-54
Vernal Pool Complex Botany Species Distribution and Habitat in Study Area Vicinity



Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, ICF 2013; Modeled Habitat, ICF 2013; Conservation Zones, SAIC 2012.

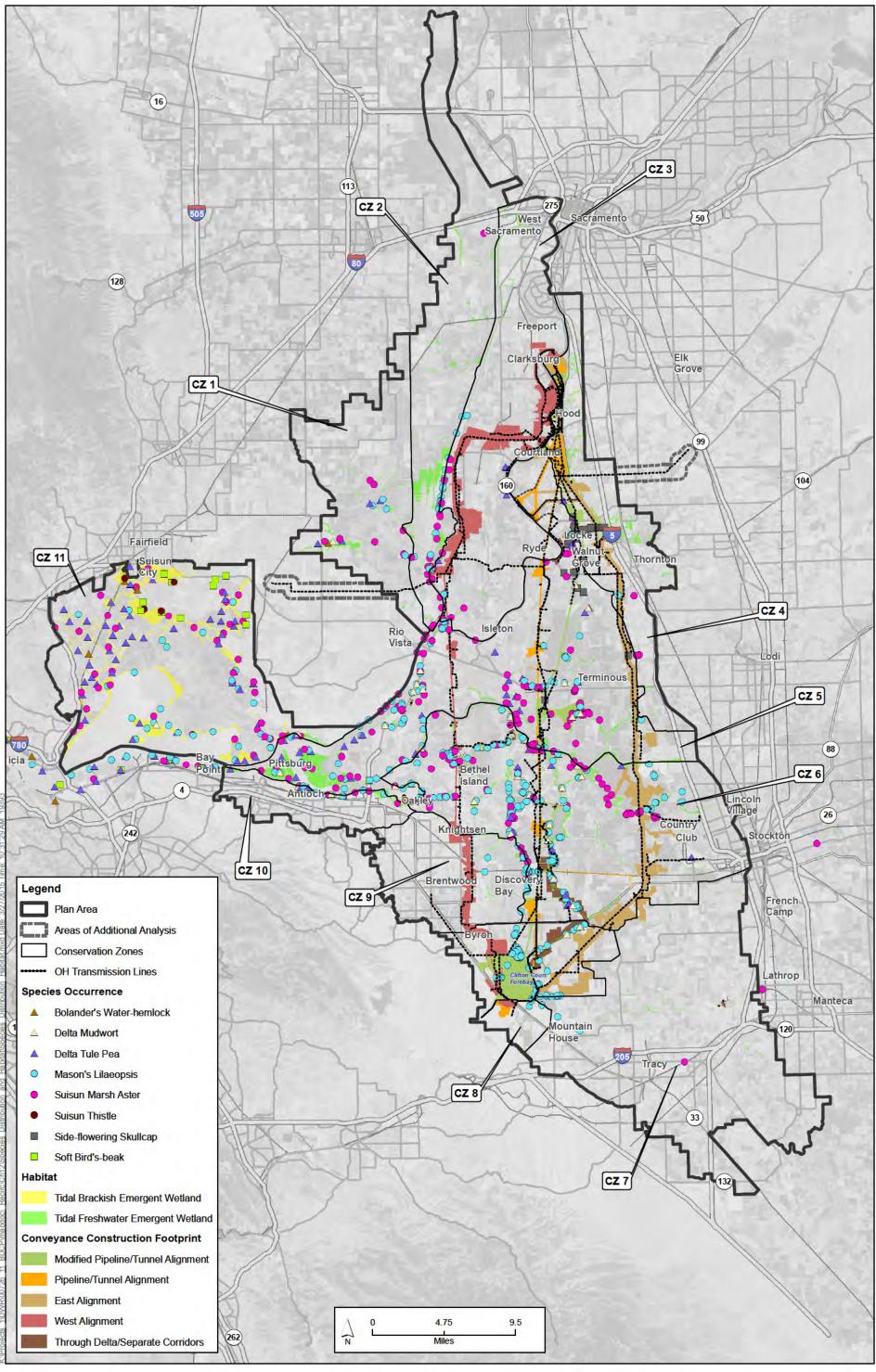
Figure 12-55 Alkali Seasonal Wetland Botany Species Distribution and Habitat in Study Area Vicinity

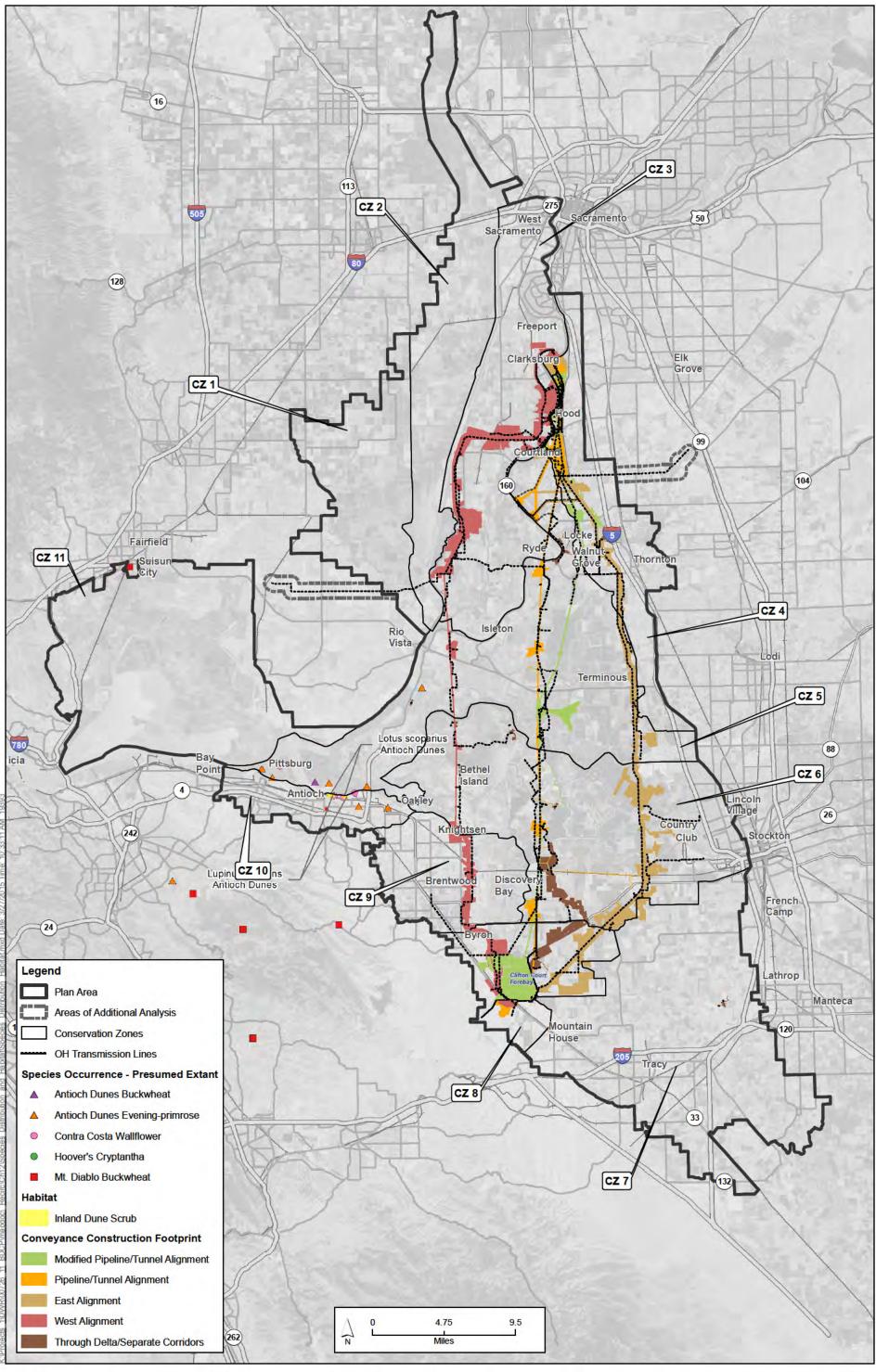




Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, ICF 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-57 Valley/Foothill Riparian Botany Species Distribution and Habitat in Study Area Vicinity





Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Species Occurrences, CNDDB 2013; Habitat, ICF 2013; Conservation Zones, SAIC 2012.

Figure 12-59
Inland Dune Scrub Botany Species Distribution and Habitat in Study Area Vicinity

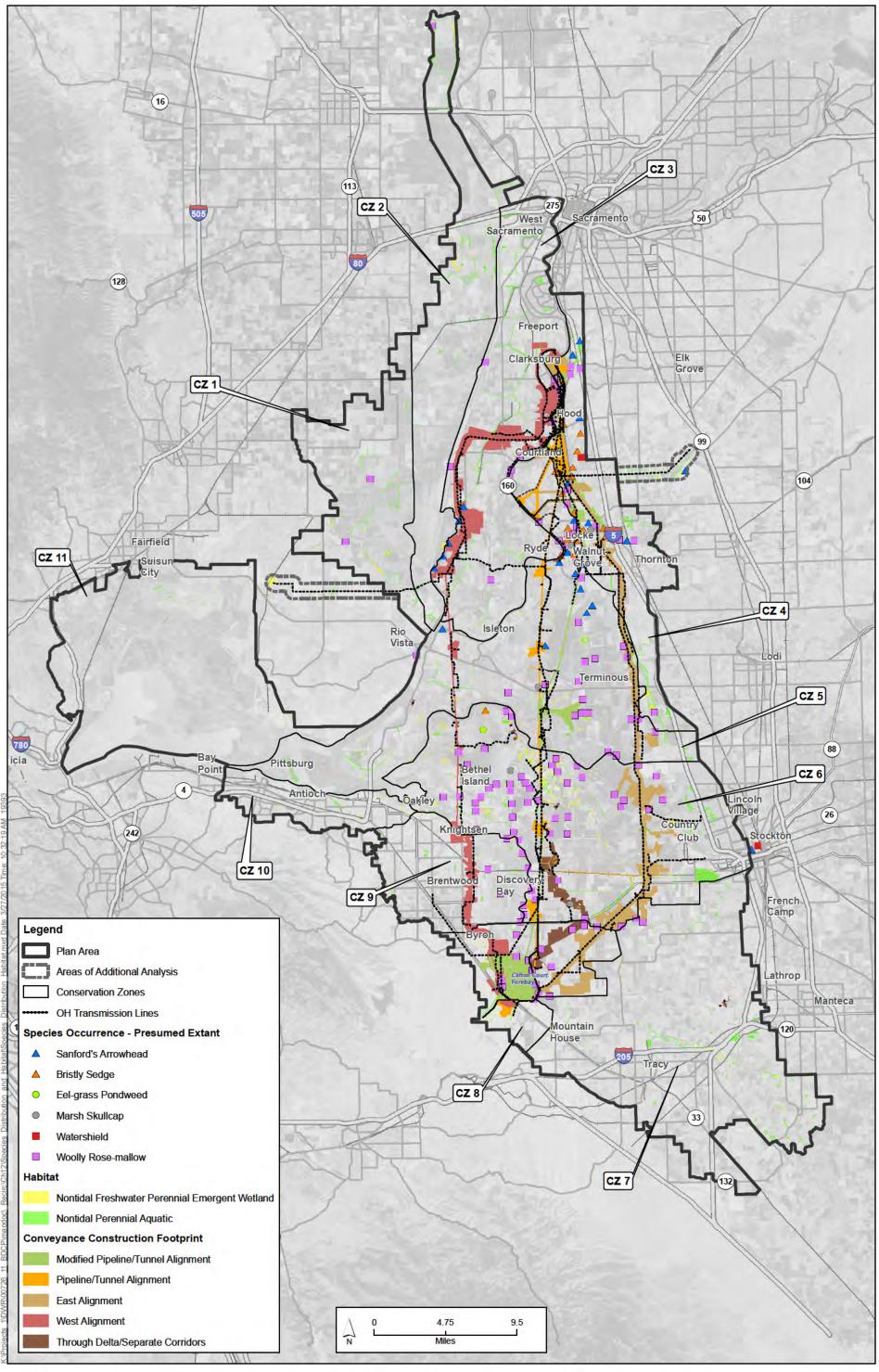


Figure 12-60 Nontidal Wetland Botany Species Distribution and Habitat in Study Area Vicinity