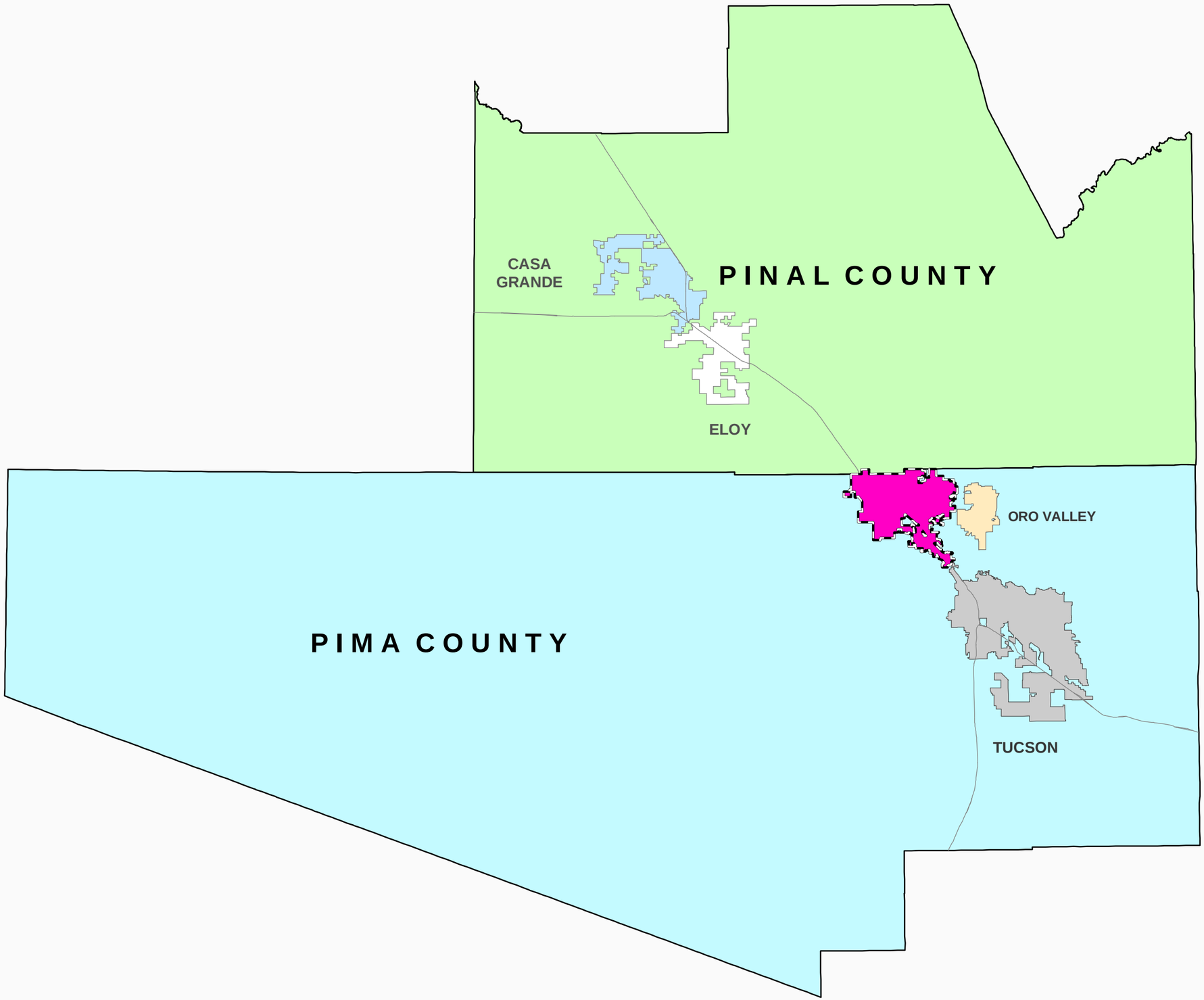


# FIGURE 1.1
# TOWN OF MARANA
# LOCATION

HCP Permit Area
Marana Town Limits

N
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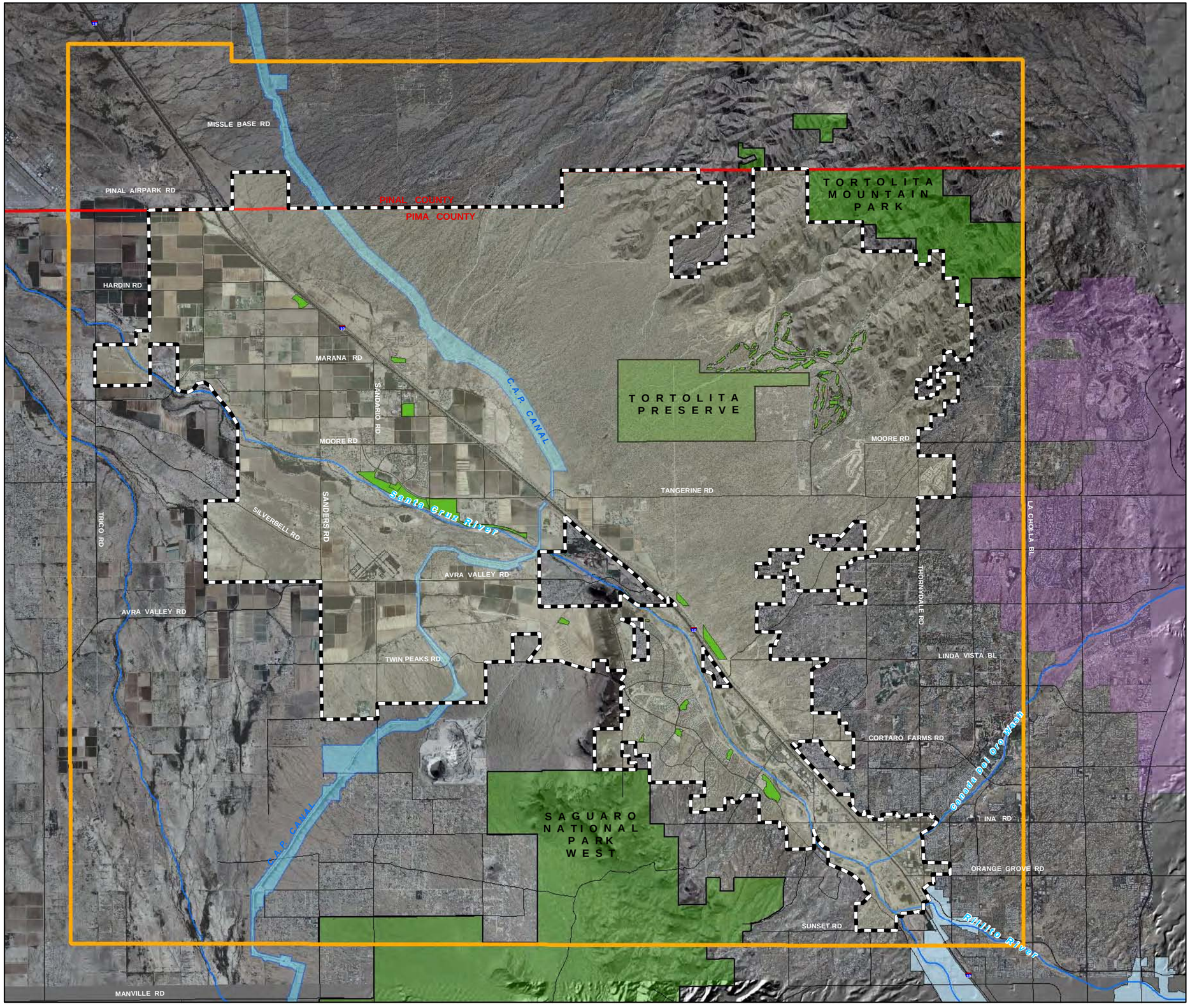
0 5 10 15 20 25 30
Miles

File: U:\PW_Environmental\HCP\final_figs\Figure 1.1 Town of Marana Location.mxd
©11-08 Town of Marana




# FIGURE 1.2
# HCP Planning and Permit Areas

- HCP Planning Area
- HCP Permit Area/Marana Town Limits
- CAP Canal
- County Line
- Parks and Golf Courses
- Tucson City Limits
- Oro Valley Town Limits

N
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S

0 0.5 1 2 3 Miles

Background Imagery Data Source:
July 2007 NAIP Aerial Photos

File: U:\PW_Environmental\HCP\final_figs\
November_08\12_15_08_for_CH\
Figure 1.2 HCP Planning and Permit Areas.mxd
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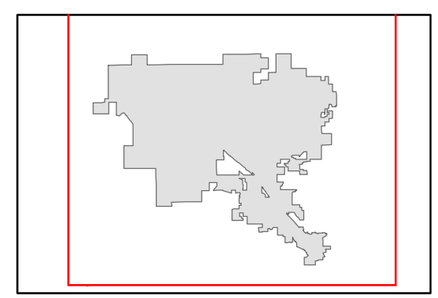

# FIGURE 2.1
# Existing Land Use

- AGRICULTURE
- AIRPORT
- COMMERCIAL
- INDUSTRIAL
- PARKS, RECREATION AND OPEN SPACE
- PUBLIC/INSTITUTIONAL
- RESIDENTIAL ATTACHED MULTI FAMILY
- RESIDENTIAL DETACHED SINGLE FAMILY
- RESIDENTIAL MANUFACTURED HOME
- RIVERS and MAJOR WASHES
- VACANT/UNDEVELOPED
- Marana Town Limits

N
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0 0.5 1 2 3 Miles

Background Imagery Data Source:
July 2007 NAIP Aerial Photos

File: U:\PW_Environmental\HCP\final_figs\
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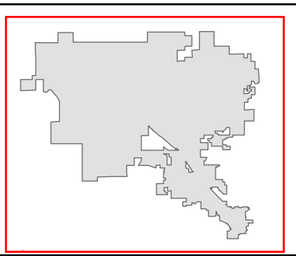

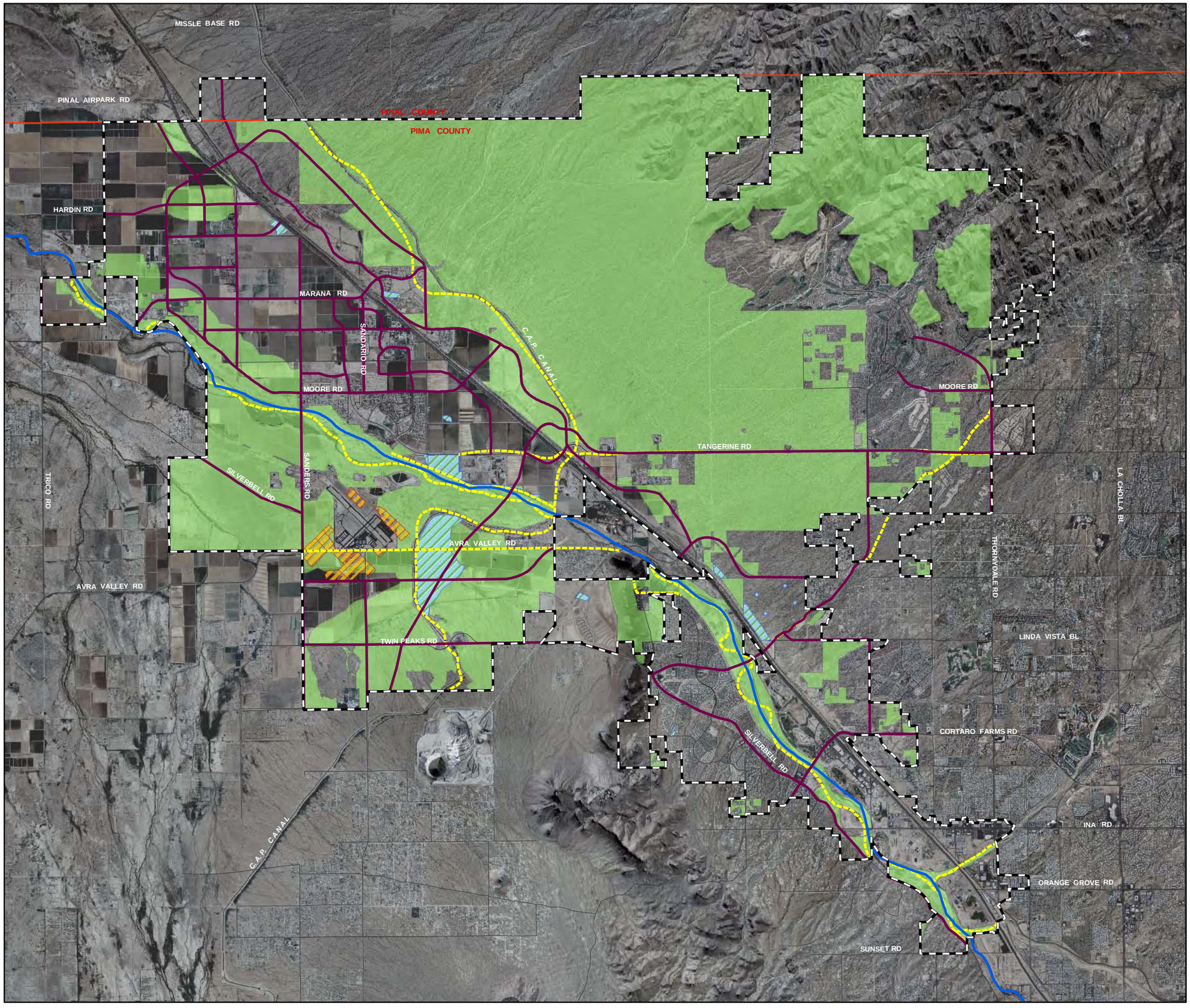


# FIGURE 2.2
# CIP AND 13 SPECIES MODELED HABITAT

- Combined Habitats
  43,010 Acres
- Proposed Streets
  1,621 Acres Impact
- Proposed Trails
  236 Acres Impact
- Airport Development
  217 Acres Impact
- Barnett Channel
  25 Acres Impact
- Proposed Parks
  448 Acres Impact
- HCP Permit Area
  Marana Town Limits
- Santa Cruz River

N
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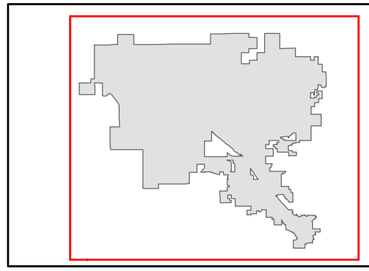
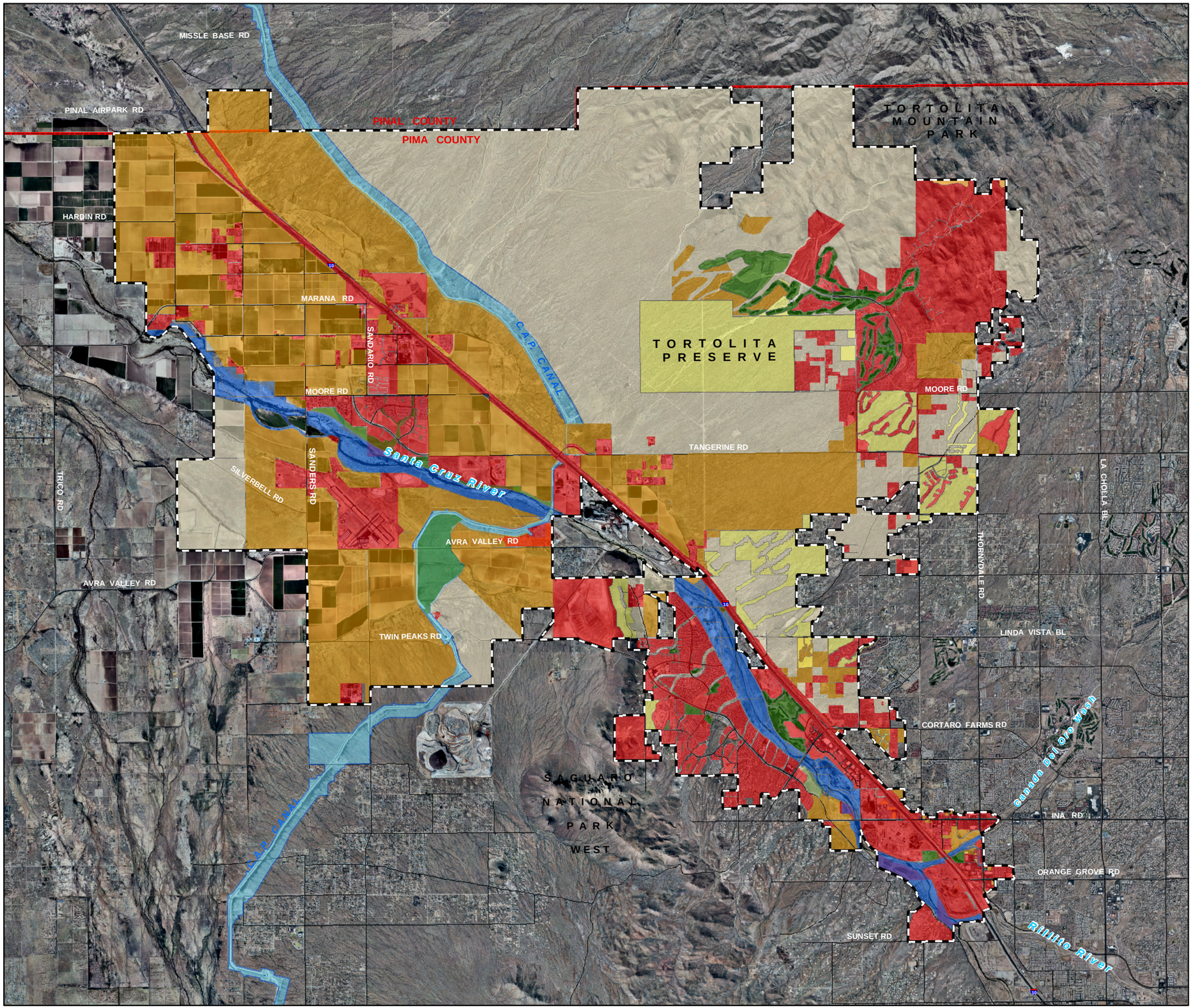
0 0.5 1 2 3 Miles

Background Imagery:
July 2007 NAIP Aerial Photography

U:\PW_Environmental\HCP\final_figs\
November_08\12_15_08_for_CH\
1_9_09_for_DEIS\Figure 2.2
CIP and 13 Species Modeled Habitat.mxd

© 1-09 Town of Marana






# FIGURE 2.2
# Future Land Development Status

- Developed Land
- Mitigation Lands
- CAP Canal
- Parks
- Rivers and Major Washes
- Marana Town Limits
- County Line

**Future Development**

- LOW INTENSITY
- MOD-HIGH INTENSITY

Background Imagery Data Source:
Pima County, March 2006
Pinal County, August 2005
1 Meter Imagery from Arizona State Cartographer's Office, Phoenix, Arizona

File: U:\PW_Environmental\HCP\Fig_2.2 Future_Land_Dev_Status.mxd

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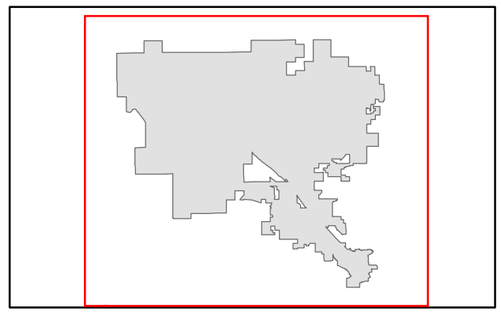
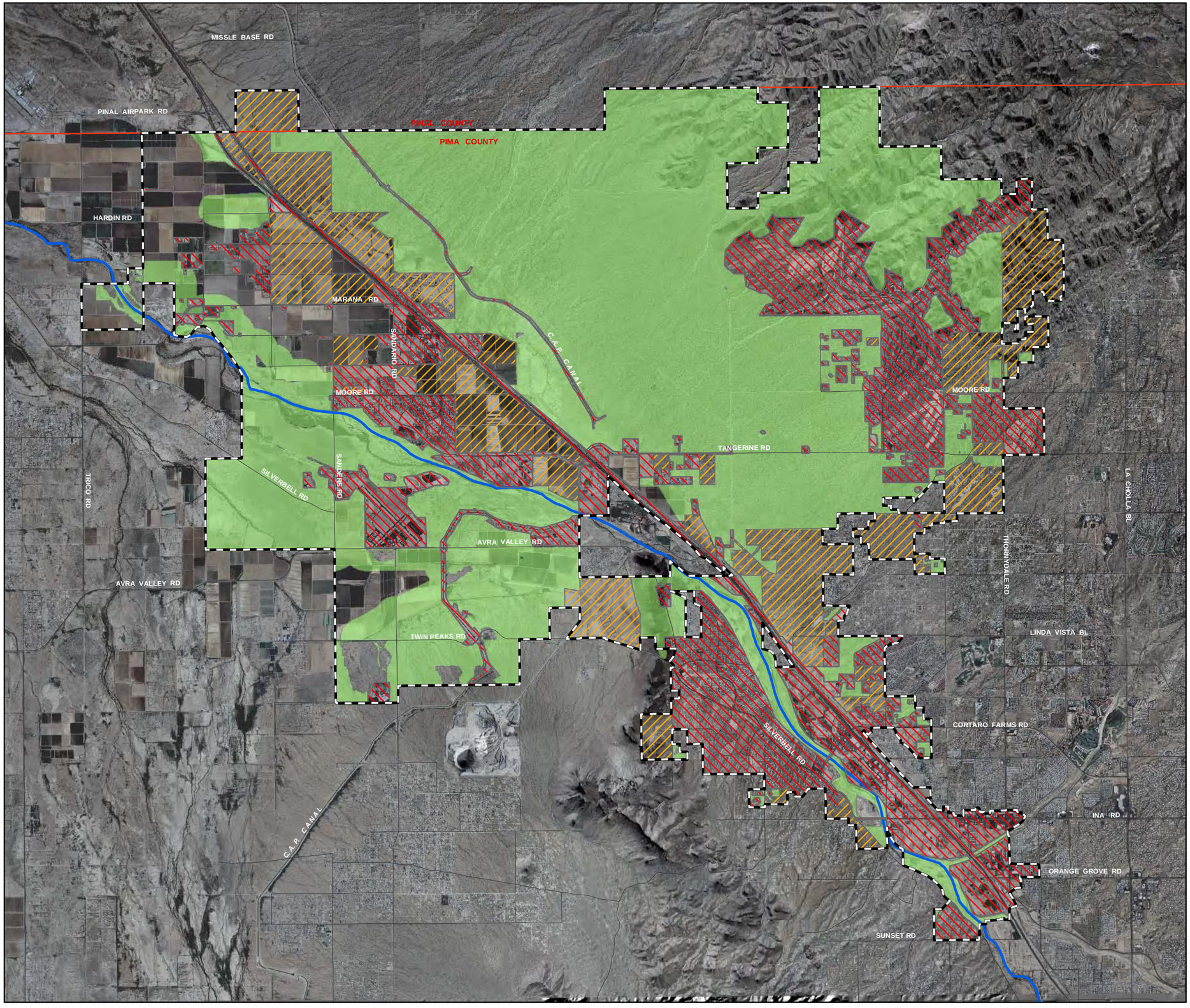
0 0.5 1 2 3 4 Miles






# FIGURE 2.3
# 13 SPECIES MODELED HABITAT AND LAND DEVELOPMENT

- Combined Habitats 43,010 Acres
- Entitled Land
- Developed Land
- HCP Permit Area Marana Town Limits
- Santa Cruz River

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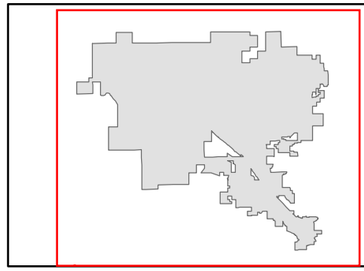
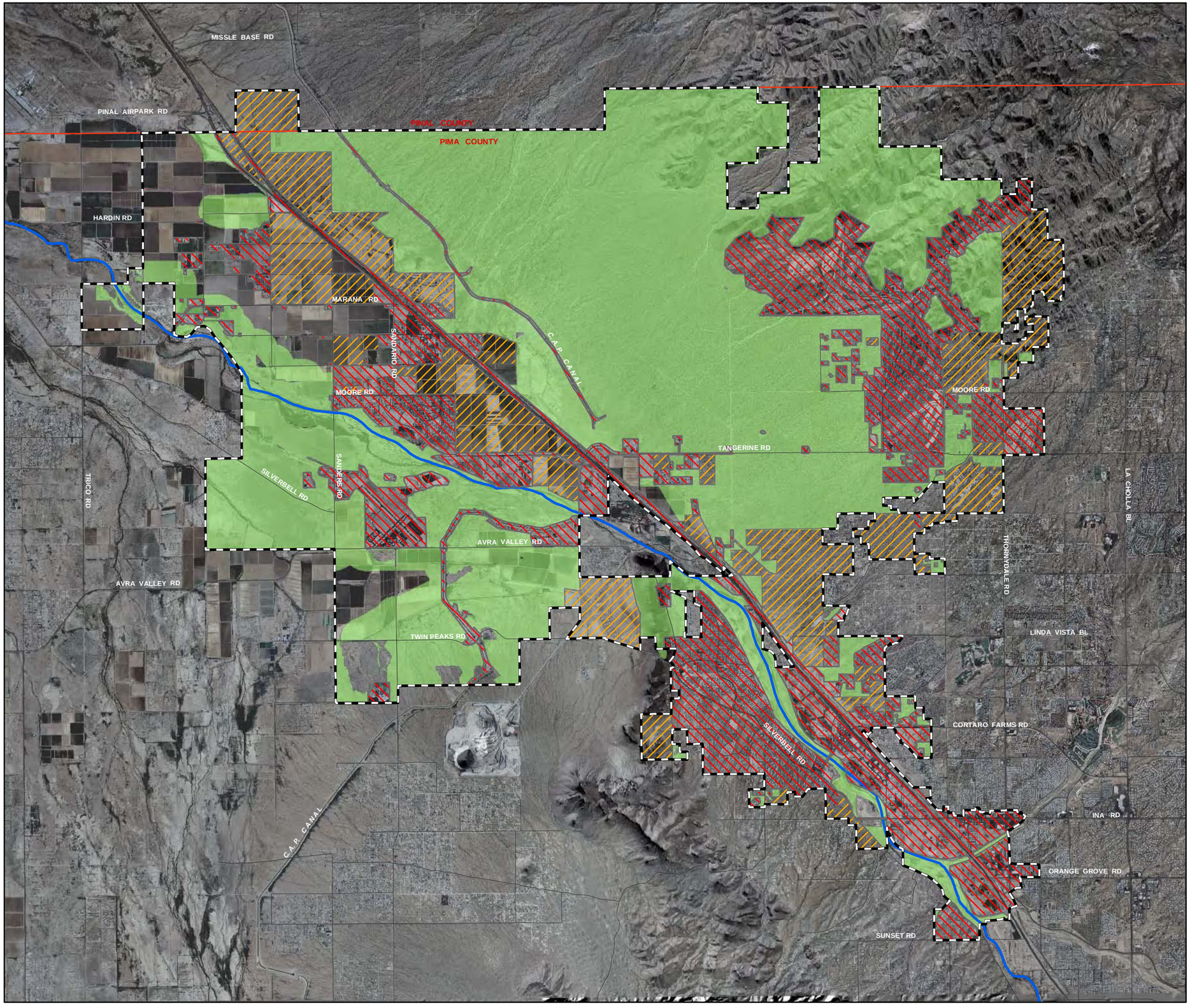
0 0.5 1 2 3 Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\
November_08\Figure 2.5
13 Species Potential Habitat and Development.mxd
© 12-08 Town of Marana



# FIGURE 2.3
# LAND DEVELOPMENT AND 13 SPECIES MODELED HABITAT




Combined Habitats
43,010 Acres

Entitled Land

Developed Land

HCP Permit Area
Marana Town Limits

Santa Cruz River

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Background Imagery:
July 2007 NAIP Aerial Photography

U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\1_9_09_for_DEIS\Figure 2.3 Land Development and 13 Species Modeled Habitat.mxd

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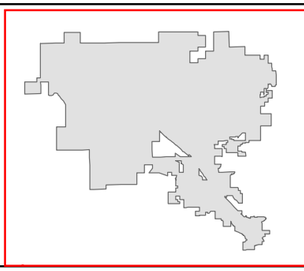

# FIGURE 2.4
# 13 SPECIES MODELED HABITAT AND CIP

- Combined Habitats
  43,010 Acres
- Proposed Streets
  1,621 Acres Impact
- Proposed Trails
  236 Acres Impact
- Airport Development
  217 Acres Impact
- Barnett Channel
  25 Acres Impact
- Proposed Parks
  448 Acres Impact
- HCP Permit Area
  Marana Town Limits
- Santa Cruz River

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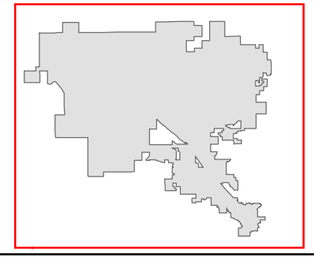
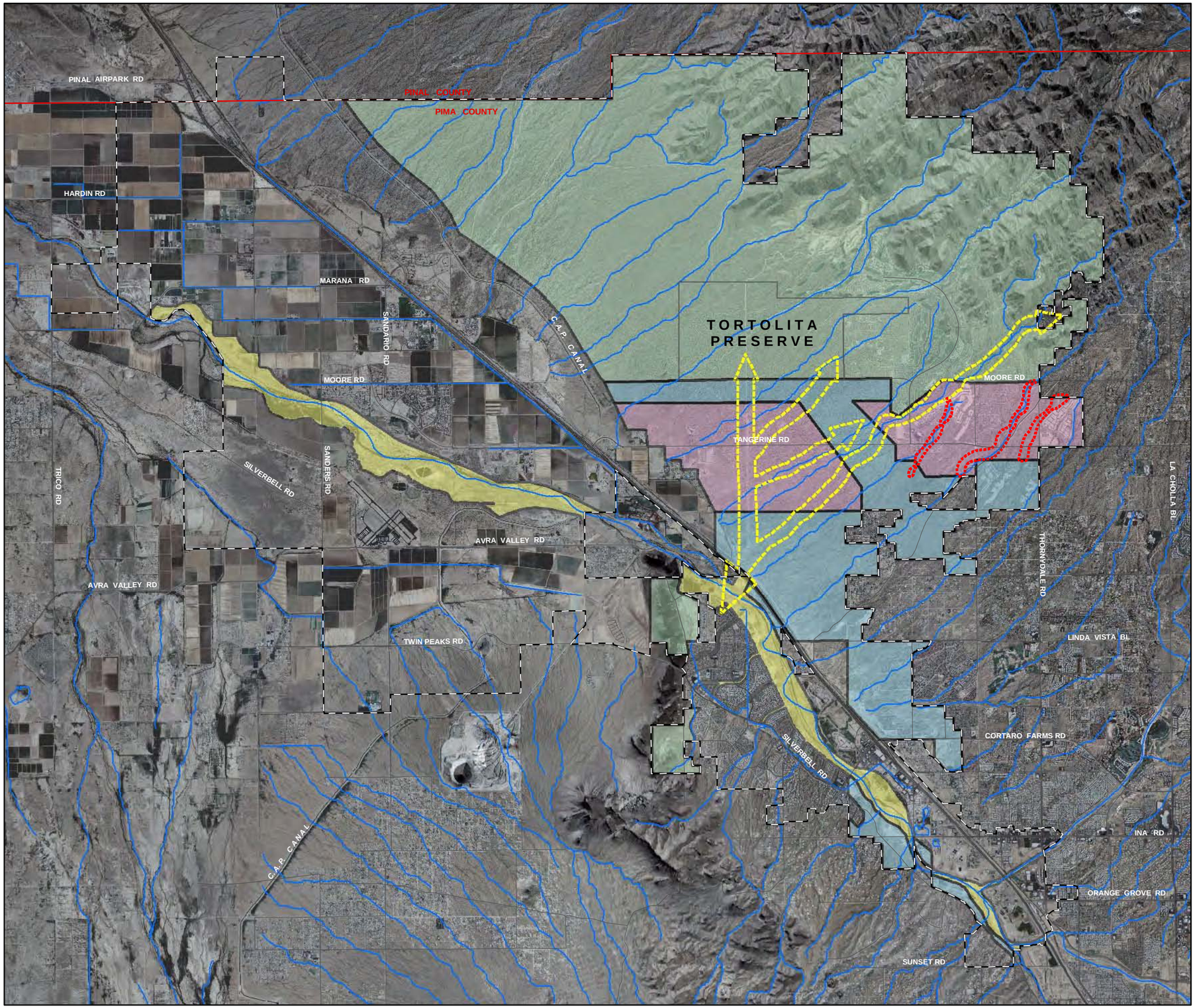
0 0.5 1 2 3 Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File:\PW_Environmental\HCP\final_figs\
November_08\12_15_08_for_CH\
Figure 2.4 13 Species Modeled Habitat and CIP.mxd
© 12-08 Town of Marana






# Figure 2.4
# HCP Conservation Zones and Linkages

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Proposed Corridors
- Existing Corridors
- Washes
- Marana Town Limits
  HCP Planning Area
- County Line

Background Imagery:
July 2007 NAIP Aerial Photography

U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\1_9_09_for_DEIS\Figure 2.4 HCP Conservation Zones and Linkages.mxd

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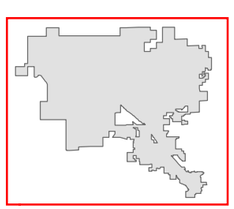

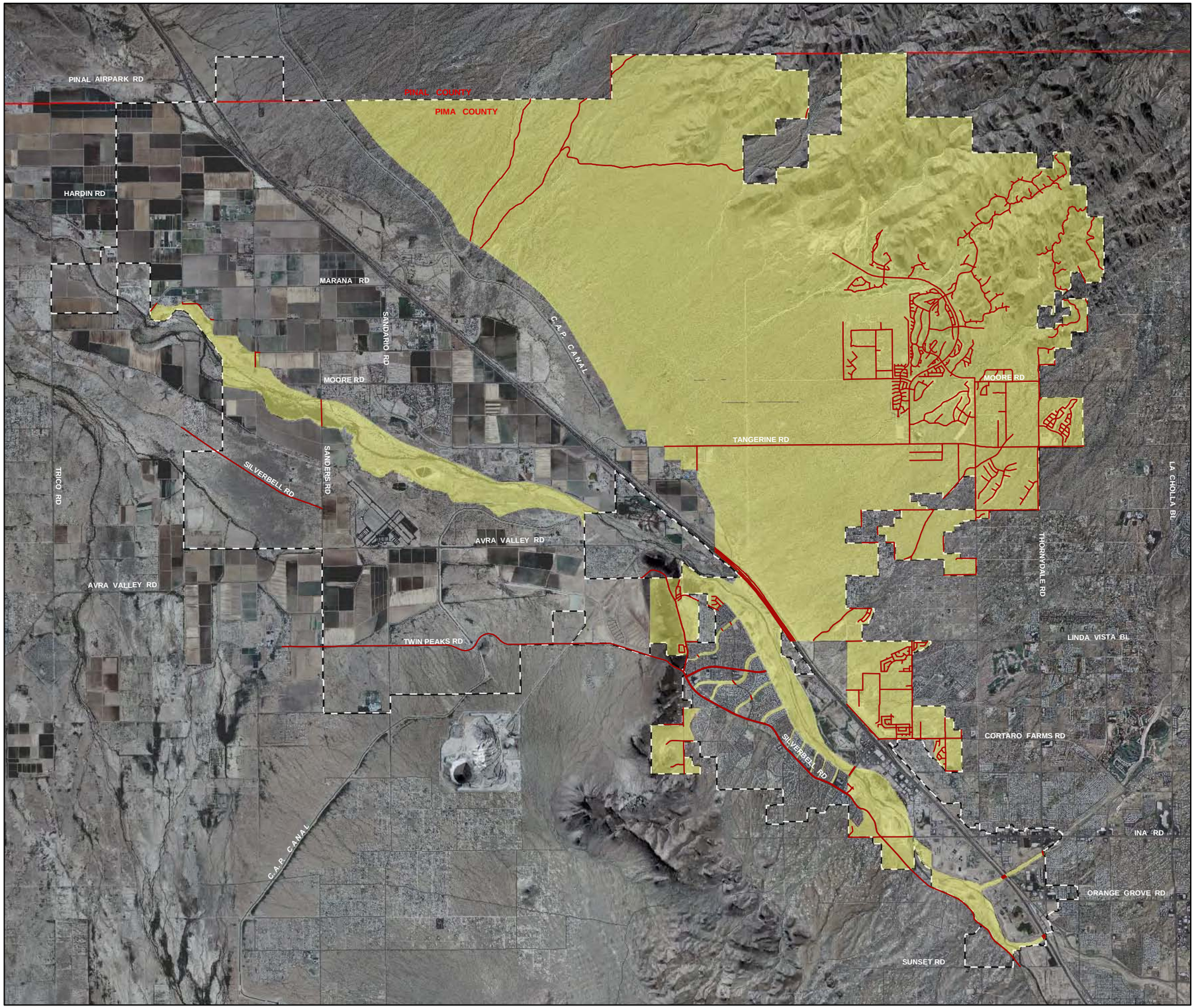


# Figure 2.5
# Environmentally Sensitive Roadway Design Guidelines for Marana

- Environmentally Sensitive Roadways
- Marana HCP Zones
- Marana Town Limits
  HCP Planning Area
- County Line

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\Figure 2.5 Environmentally Sensitive Roadway Design Guidelines for Marana.mxd

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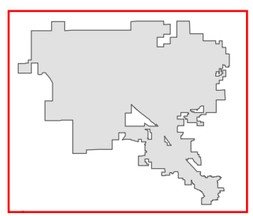
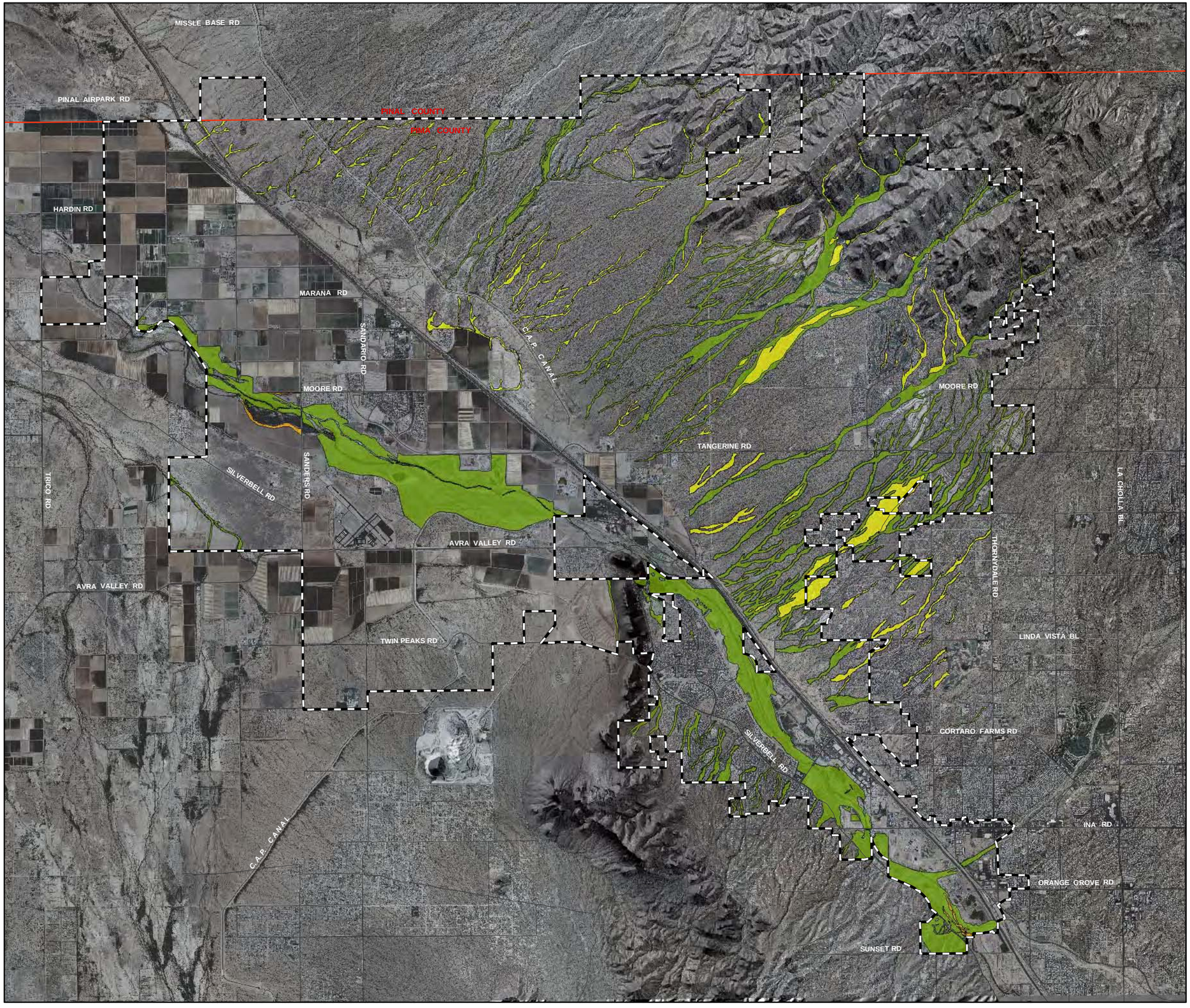
0 0.5 1 2 3 Miles






# Figure 2.5
# Town of Marana
# Riparian Habitat

- Xeroriparian C
- Hydromeso Riparian
- Important Riparian Areas
- HCP Permit Area
  Marana Town Limits

N
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0 0.5 1 2 3 Miles

Background Imagery:
July 2007 NAIP Aerial Photography

U:\PW_Environmental\HCP\final_figs\
November_08\12_15_08_for_CH\
1_9_09_for_DEIS\Figure 2.5
Town of Marana Riparian Habitat.mxd
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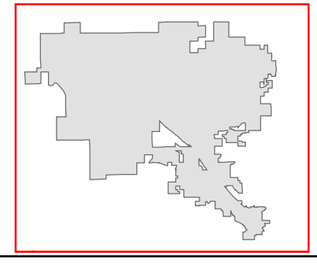

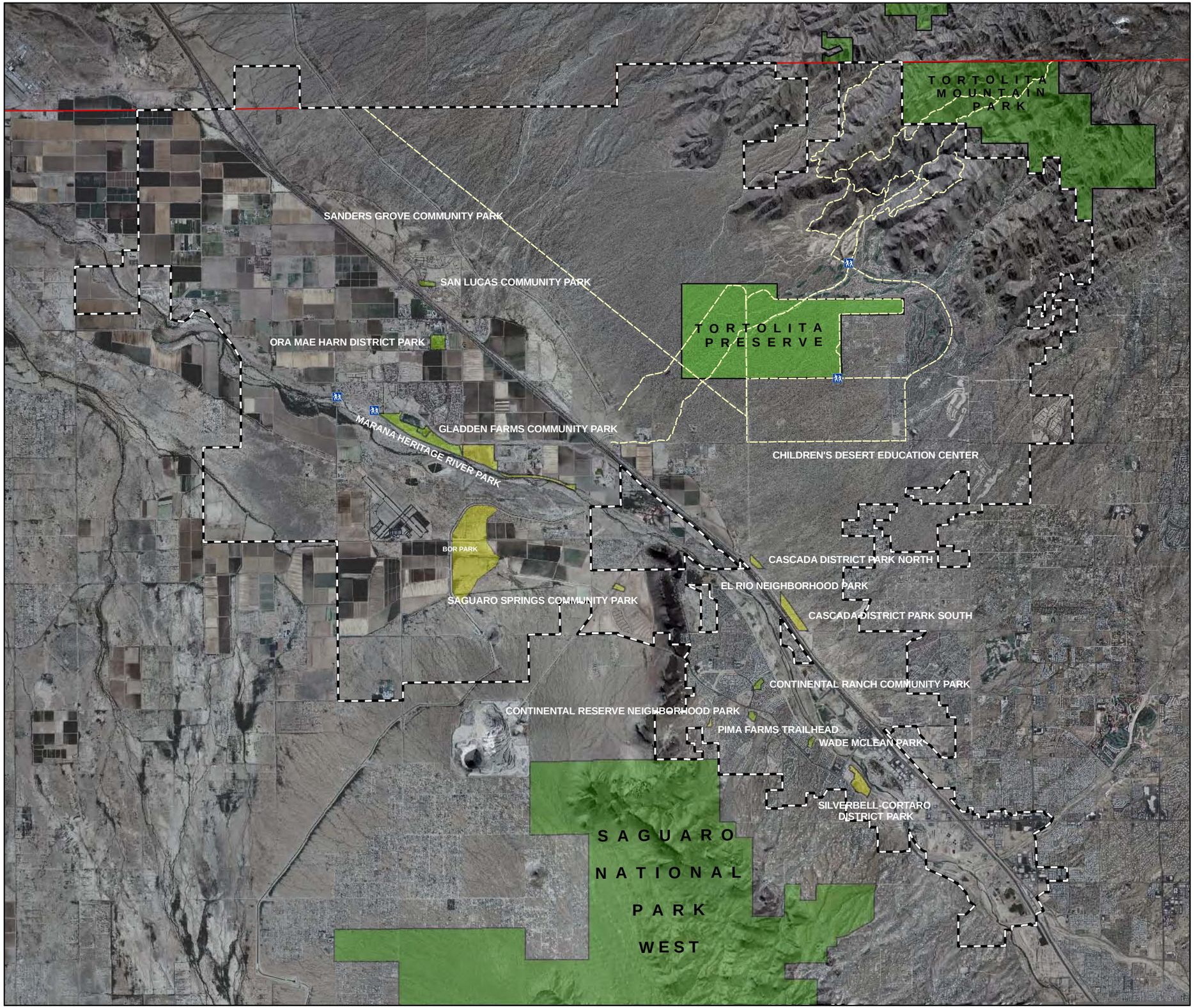


# Figure 2.6
# Parks and Trails

**Marana Parks**

- Existing
- Proposed
- Tortolita Mountain Trails
- Trailheads
- HCP Permit Area
  Marana Town Limits
- County Line

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\
November_08\12_15_08_for_CH\
Figure 2.6 Parks and Trails.mxd
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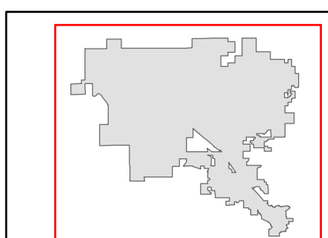
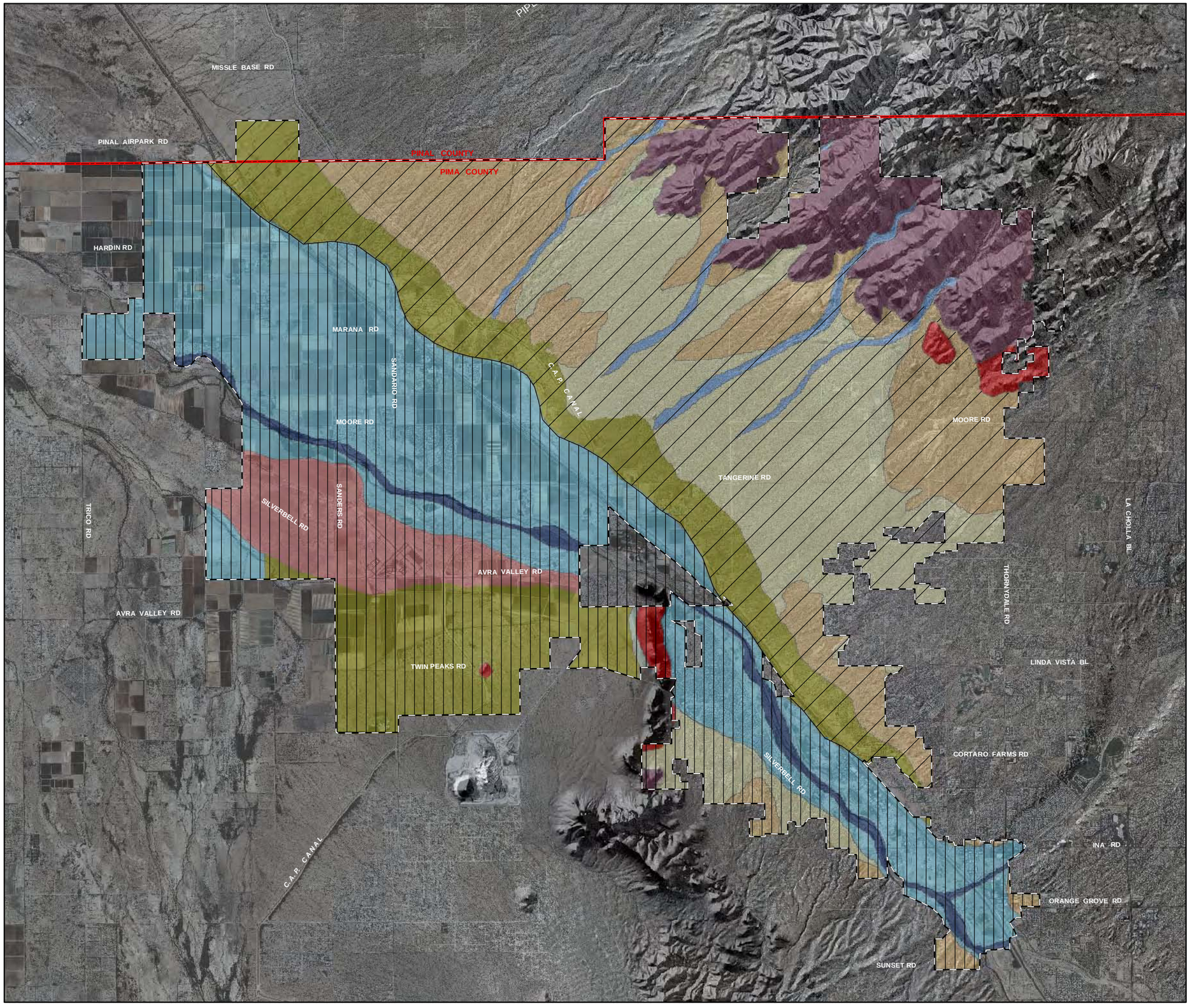


# FIGURE 3.1 MAJOR LANDFORM FEATURES OF THE TOWN OF MARANA




- Floodplains
- Drainageways
- Santa Cruz River
- Mountains
- Hills with Moderate Relief
- Non-dissected Alluvial Plains
- Dissected Bajadas and Fans
- Non-dissected Bajadas and Fans
- Terraces
- Tortolita Fan
- Valley Bottom Lands
- Marana Town Limits
- County Line

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\
final_figs\Figure 3.1 Major Landform
Features of the Town of Marana.mxd
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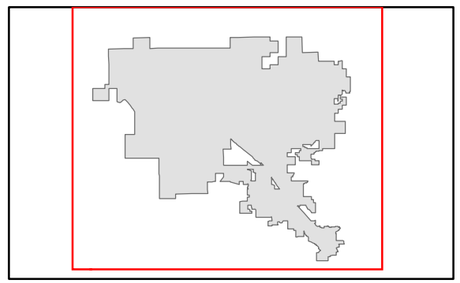
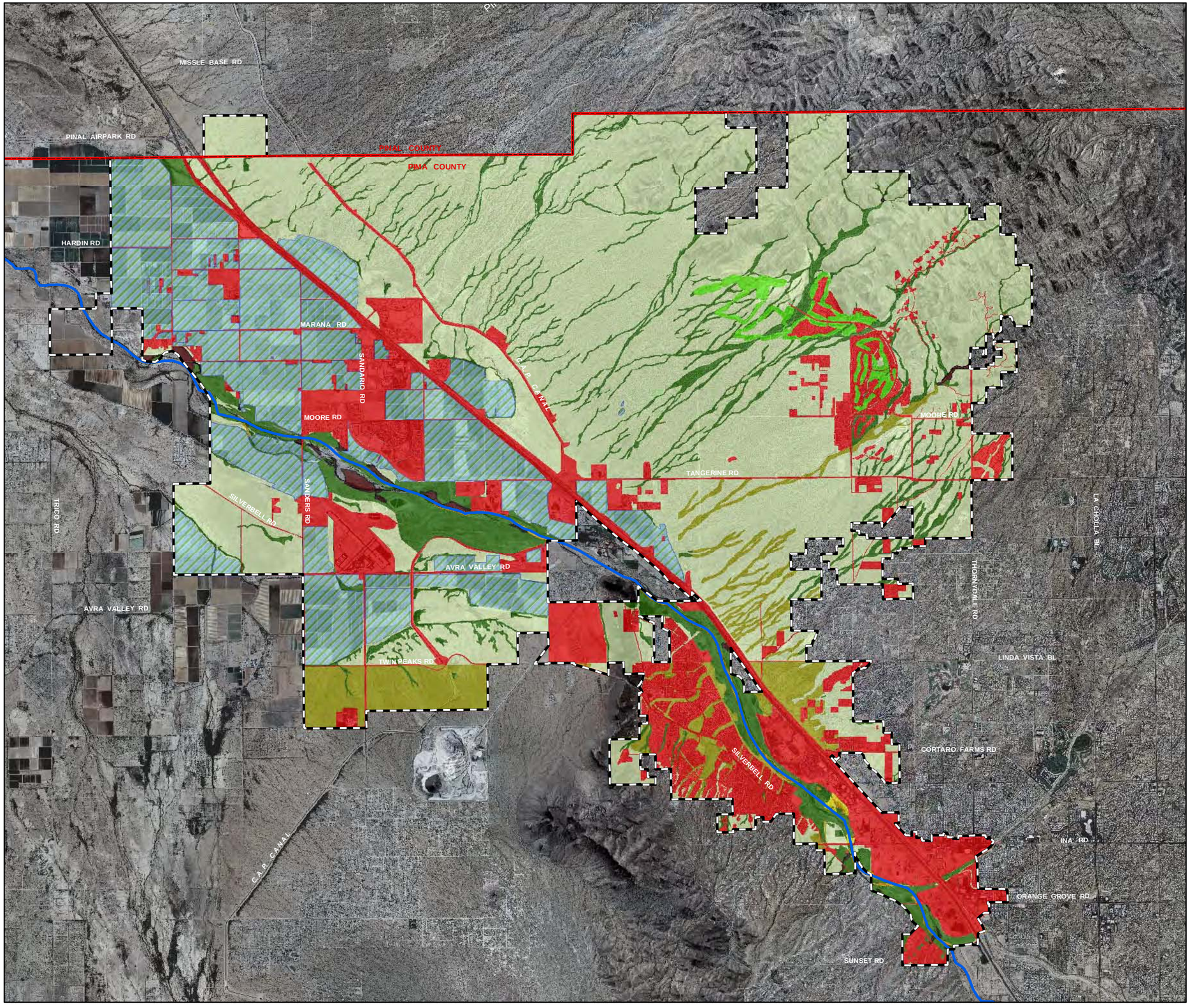
0 0.5 1 2 3 4 Miles






# Figure 3.2
# Vegetation Communities

- Agriculture
- Annual
- Cottonwood - Willow
- Creosote - Bursage
- Developed
- Golf Course
- Mesquite
- Paloverde - Mixed Cacti
- Xeroriparian
- Santa Cruz River
- Marana Town Limits
- County Line

This data represents ground conditions - July 2007.
Vegetation data derived from an update of the 2003 Marana HCP based on July 2007 imagery.

Background Imagery Data Source:
July 2007 USDA NAIP aerial photography

File: U:\PW_Environmental\HCP\final_figs\Fig_3.2_Vegetation Communities.mxd

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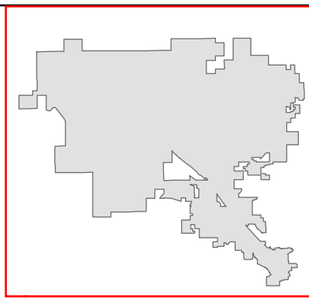

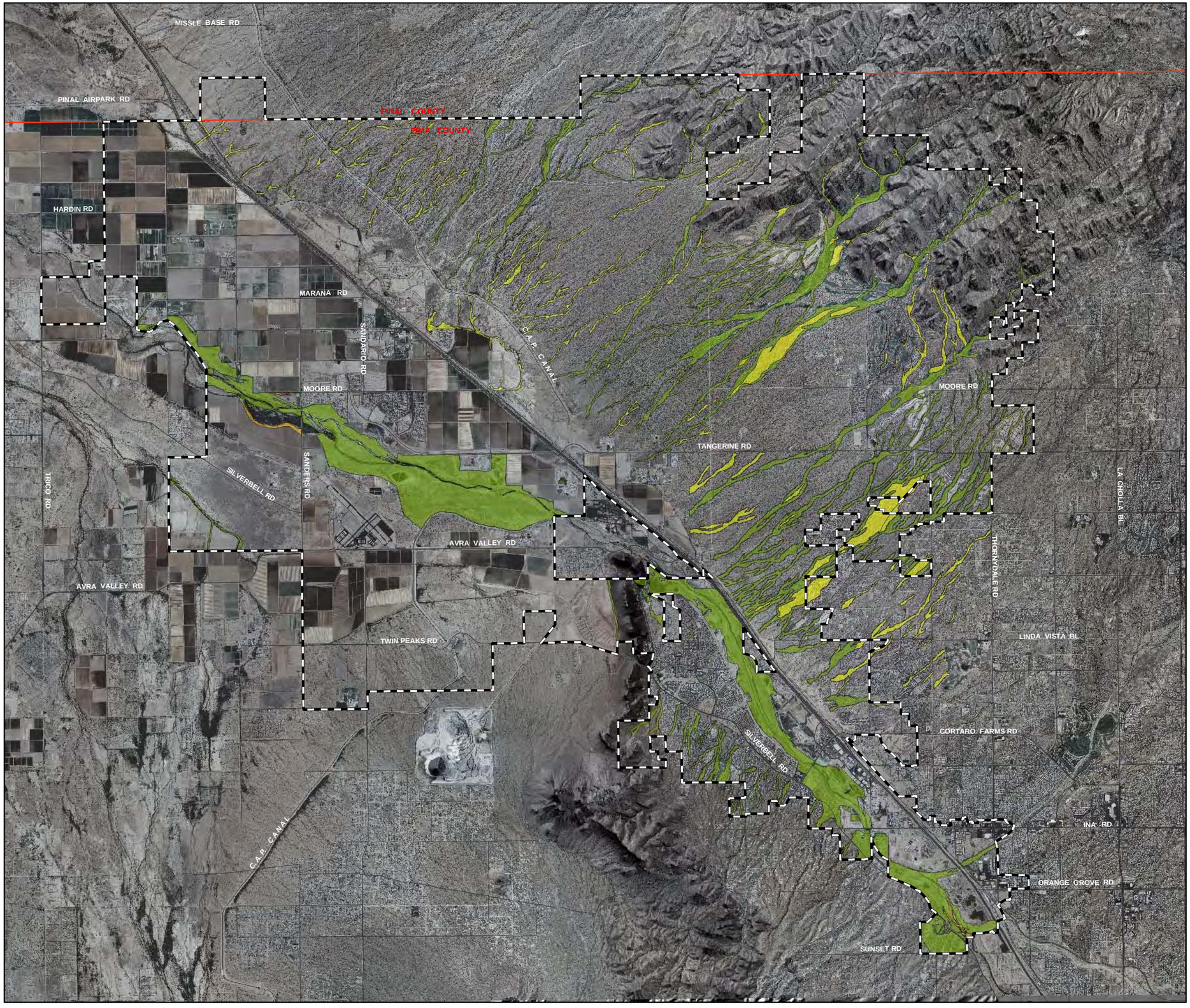


# Figure 3.3
# Town of Marana
# Riparian Habitat

- Xeroriparian C
- Hydromeso Riparian
- Important Riparian Areas
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3 Miles

Background Imagery:
July 2007 USDA NAIP Aerial Photography

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November_08\12_15_08_for_CH\
Figure 3.3 Town of Marana Riparian Habitat.mxd
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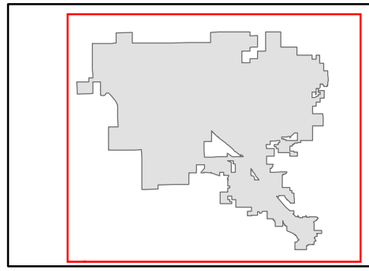

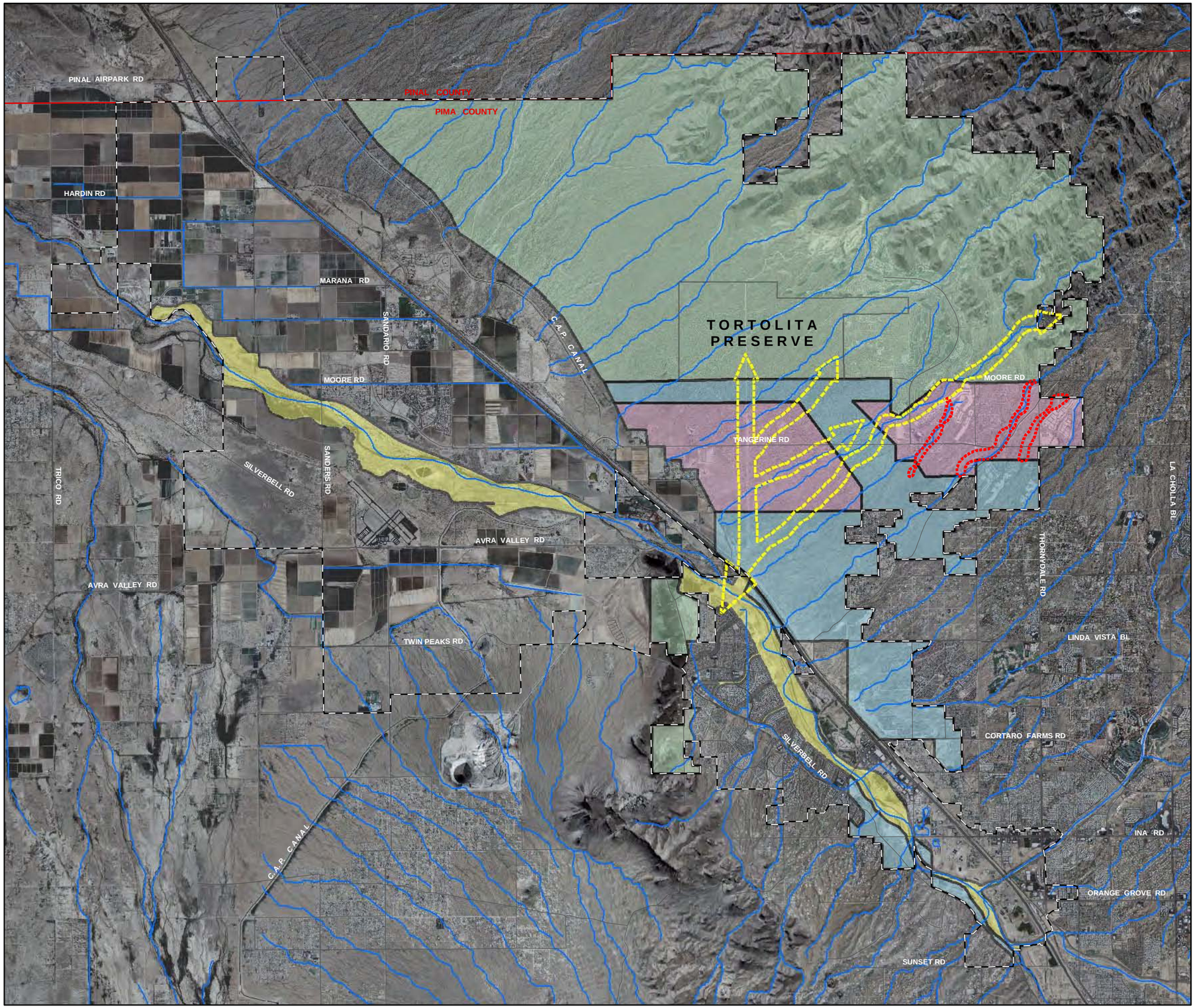


# Figure 4.1
# HCP Conservation Zones and Wildlife Linkages

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Proposed Corridors
- Existing Corridors
- Washes
- Marana Town Limits
  HCP Planning Area
- County Line

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\Figure 4.1 HCP Conservation Zones and Wildlife Linkages.mxd

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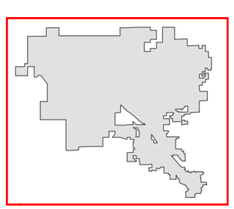
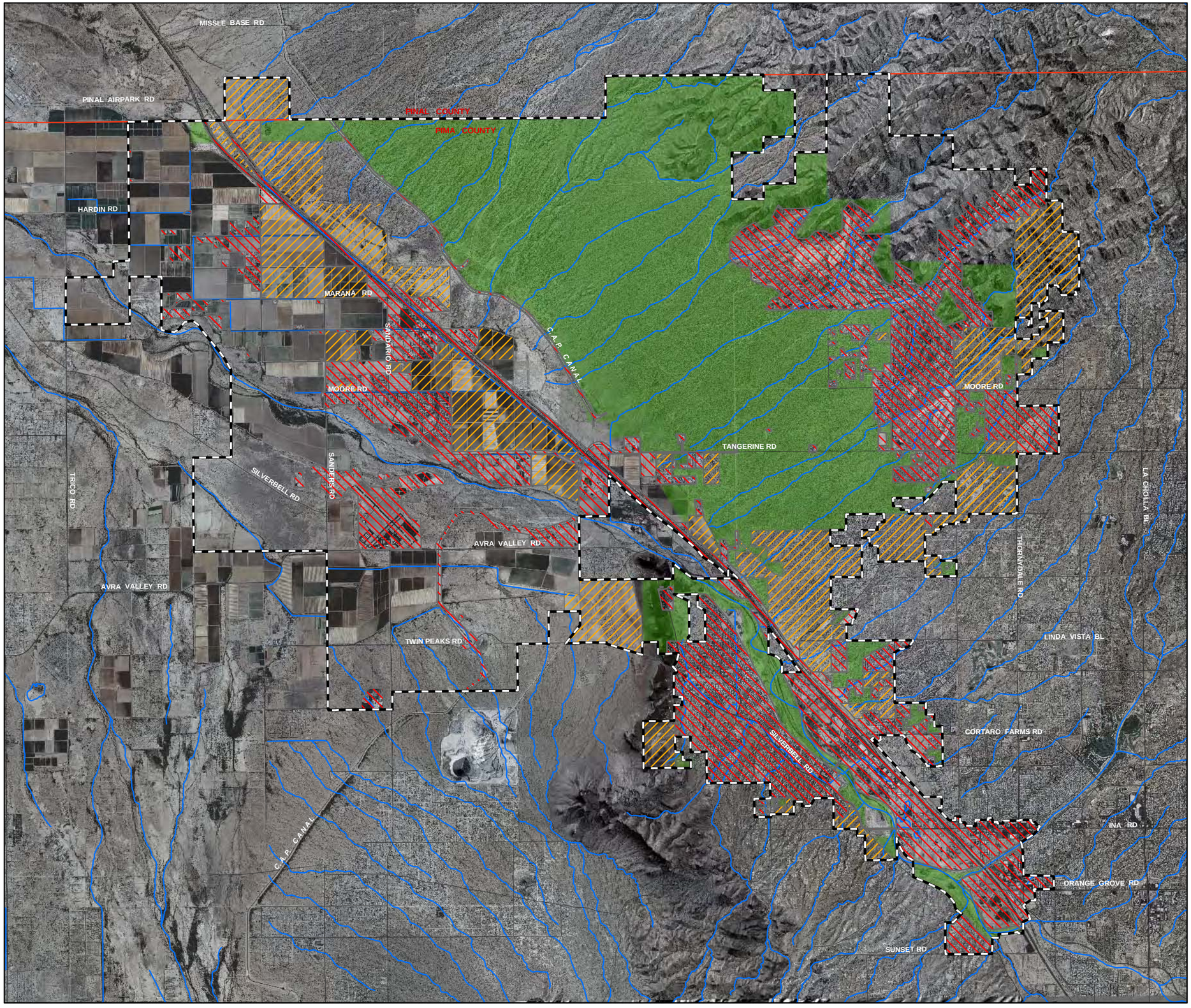
0 0.5 1 2 3 Miles






# Figure 4.10 Cactus Ferruginous Pygmy-owl Potential Habitat and Development

- Cactus Ferruginous Pygmy-owl Potential Habitat - 25,693 Acres
- Developed Land
- Entitled Land
- Washes
- HCP Permit Area
- Marana Town Limits

N
W E
S

0 0.5 1 2 3 Miles

Background Imagery:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.10 Cactus Ferruginous Pygmy-owl Potential Habitat and Development.mxd

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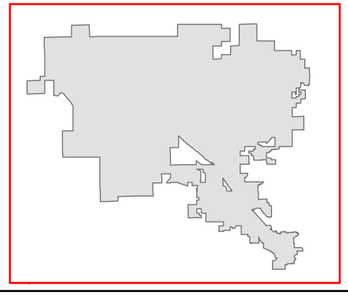

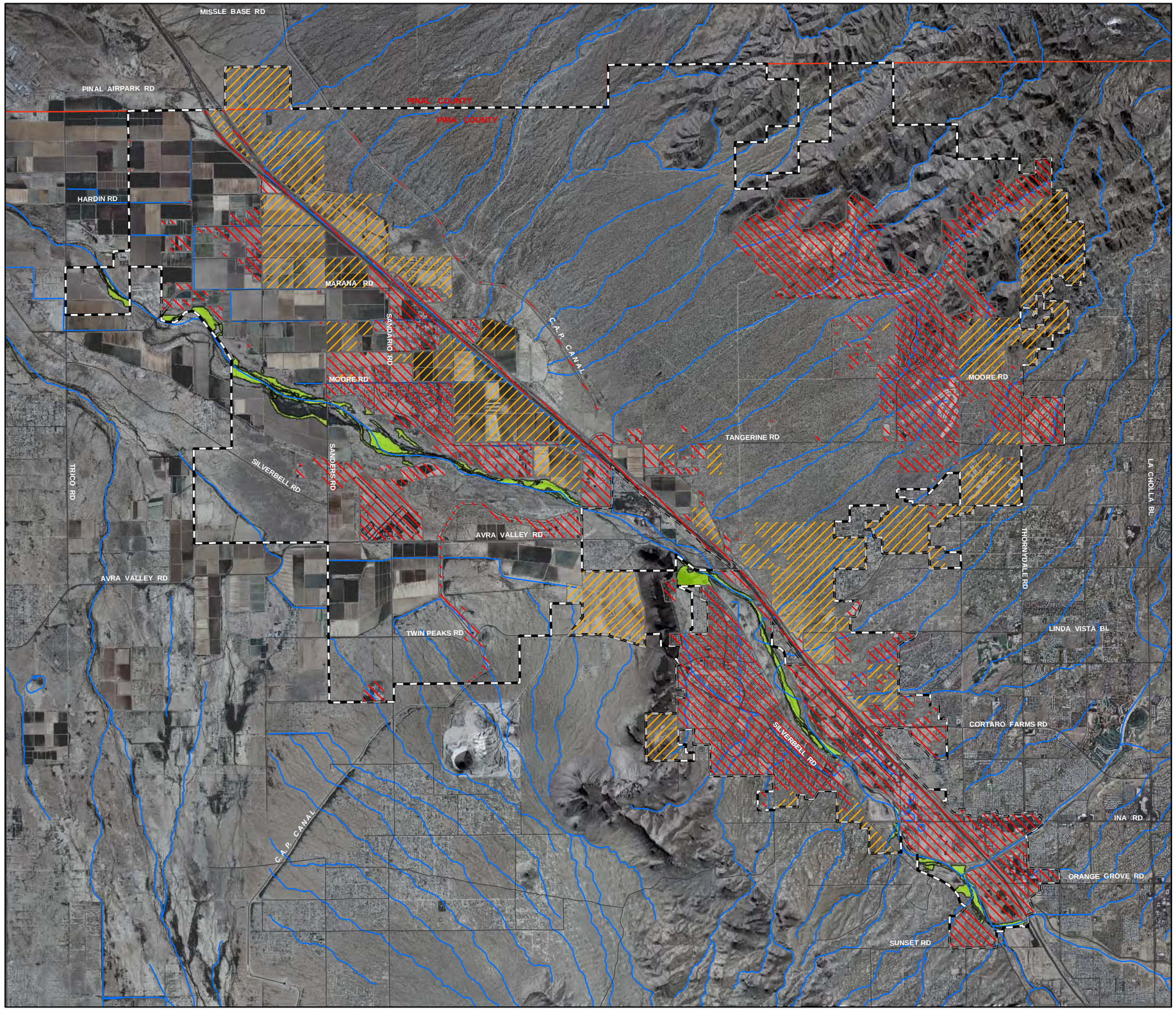


# FIGURE 4.10
# LAND DEVELOPMENT AND WESTERN YELLOW-BILLED CUCKOO MODELED HABITAT

- Western Yellow-billed Cuckoo Potential Habitat 1,141 Acres
- Entitled Land
- Developed Land
- Washes
- HCP Permit Area
- Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\1_9_09_for_DEIS\Figure 4.10 Land Development and Western Yellow-billed Cuckoo Modeled Habitat.mxd

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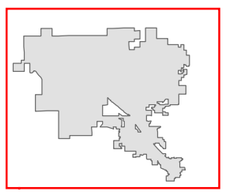

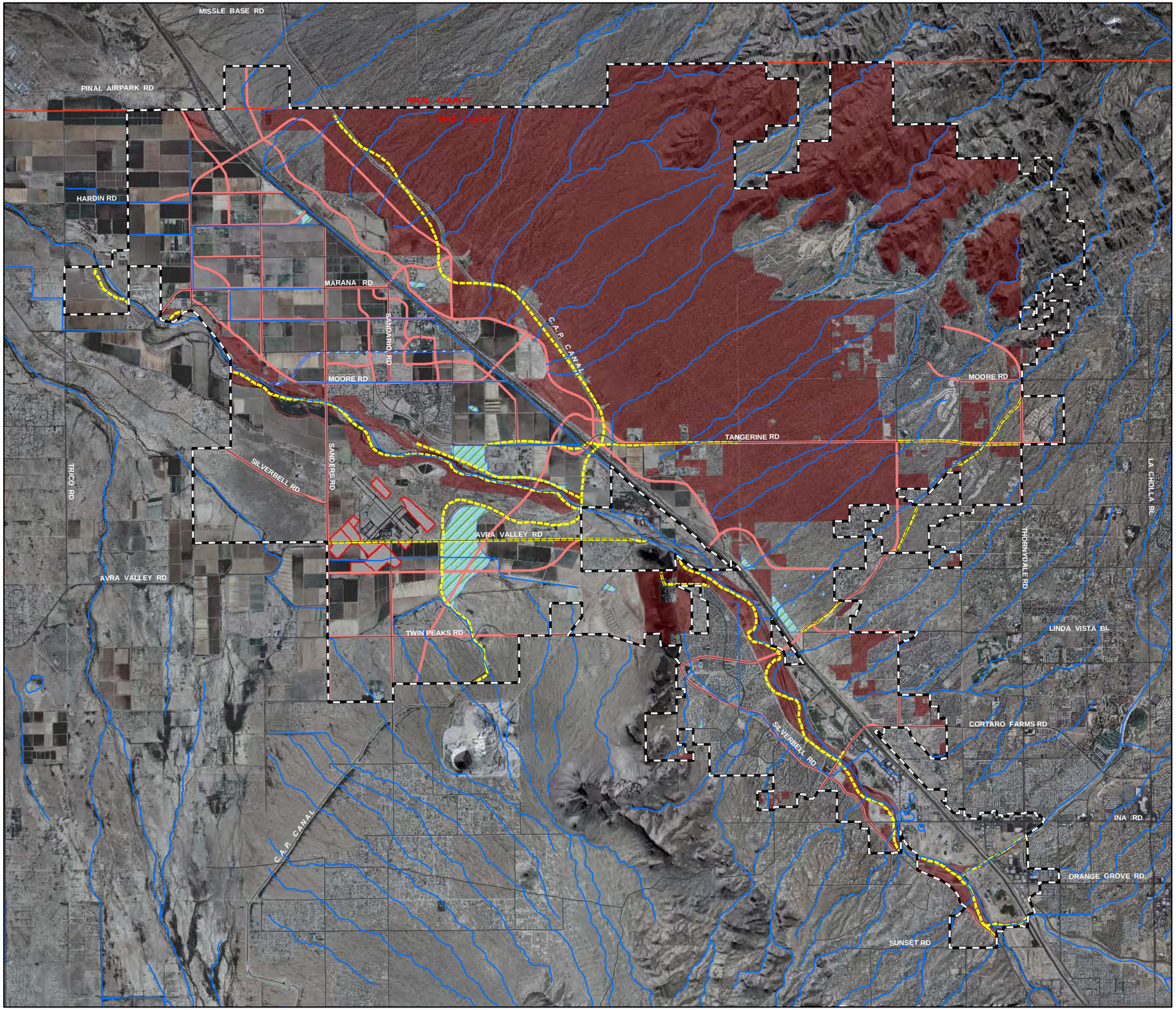


# FIGURE 4.11
# CIP AND LESSER LONG-NOSED BAT MODELED HABITAT

- Lesser Long-nosed Bat Potential Habitat 32,094 Acres
- Proposed Trails 164 Acres Impact
- Barnett Channel 8 Acres Impact
- Proposed Parks 11 Acres Impact
- Airport Development 0 Acres Impact
- Proposed Streets 925 Acres Impact
- Washes
- HCP Permit Area Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\1_9_09_for_DEIS\Figure 4.11 CIP and Lessor Long-nosed Bat Modeled Habitat.mxd

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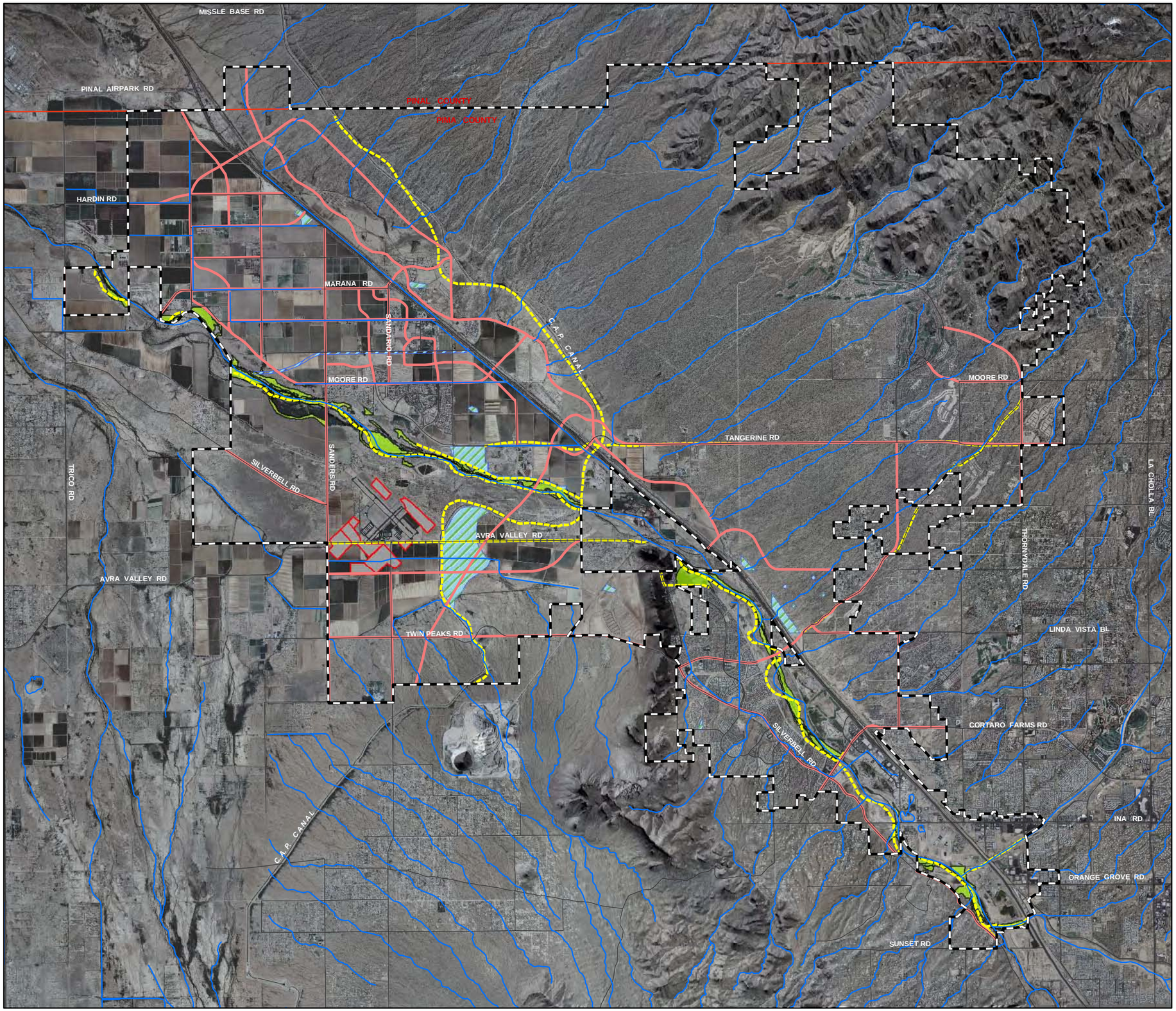


# FIGURE 4.11 SOUTHWESTERN WILLOW FLYCATCHER POTENTIAL HABITAT AND CIP

- Southwestern Willow Flycatcher Potential Habitat 1,141 Acres
- Proposed Trails 75 Acres Impact
- Proposed Parks 11 Acres Impact
- Airport Development 0 Acres Impact
- Barnett Channel 2 Acres Impact
- Proposed Streets 22 Acres Impact
- Washes
- HCP Permit Area Marana Town Limits

N W E S

0 0.5 1 2 3

Miles

Background Imagery:
July 2007 NAIP Aerial Photography

4.11 Southwestern Willow Flycatcher Potential Habitat and CIP.mxd
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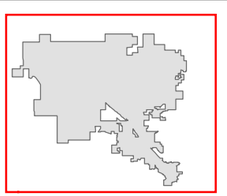

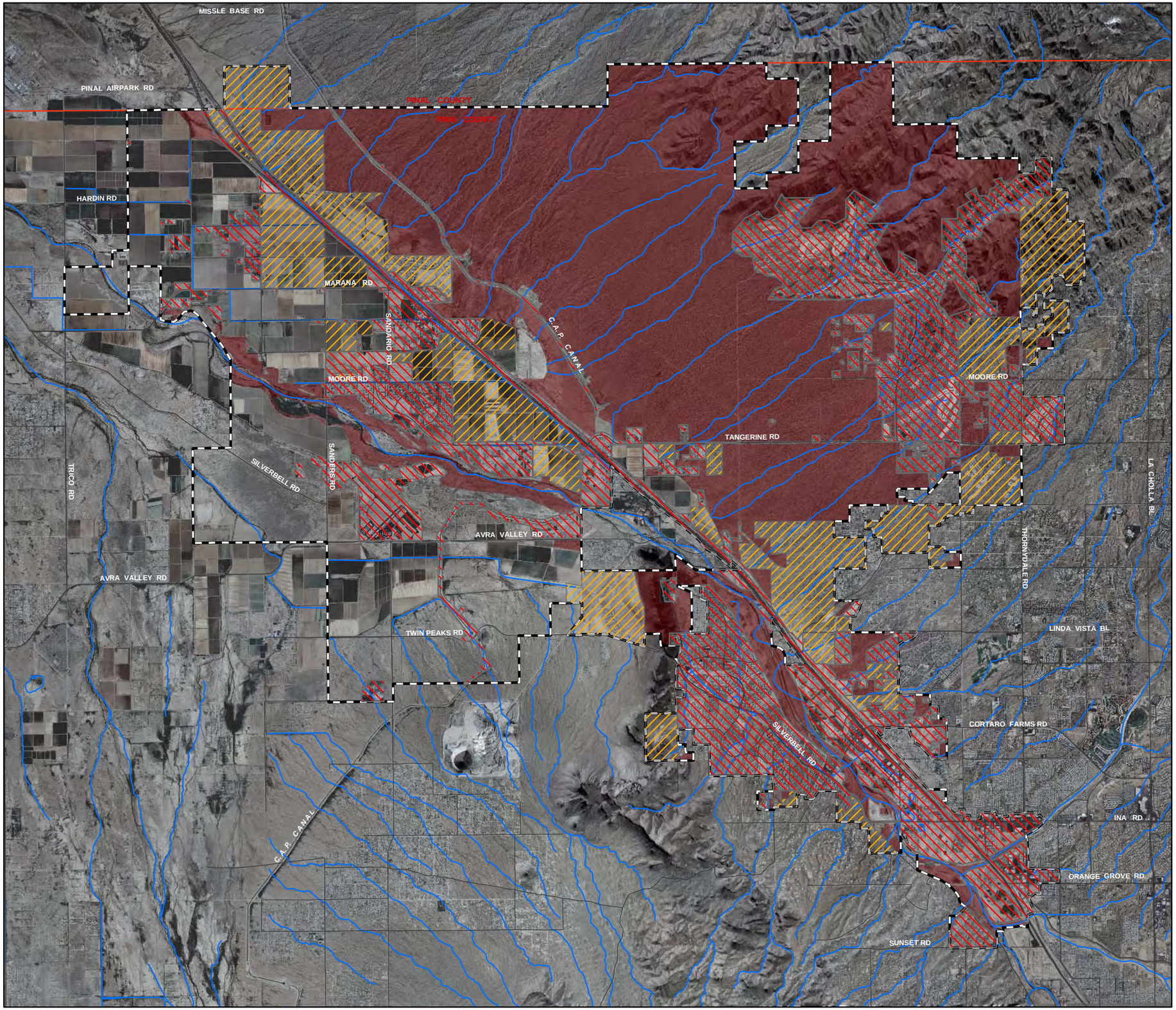


# FIGURE 4.12
# LAND DEVELOPMENT AND LESSER LONG-NOSED BAT MODELED HABITAT

- Lesser Long-nosed Bat Potential Habitat 32,094 Acres
- Developed Land
- Entitled Land
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\1_9_09_for_DEIS\Figure 4.12 Land Development and Lessor Long-nosed Bat Modeled Habitat.mxd

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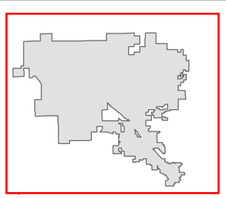

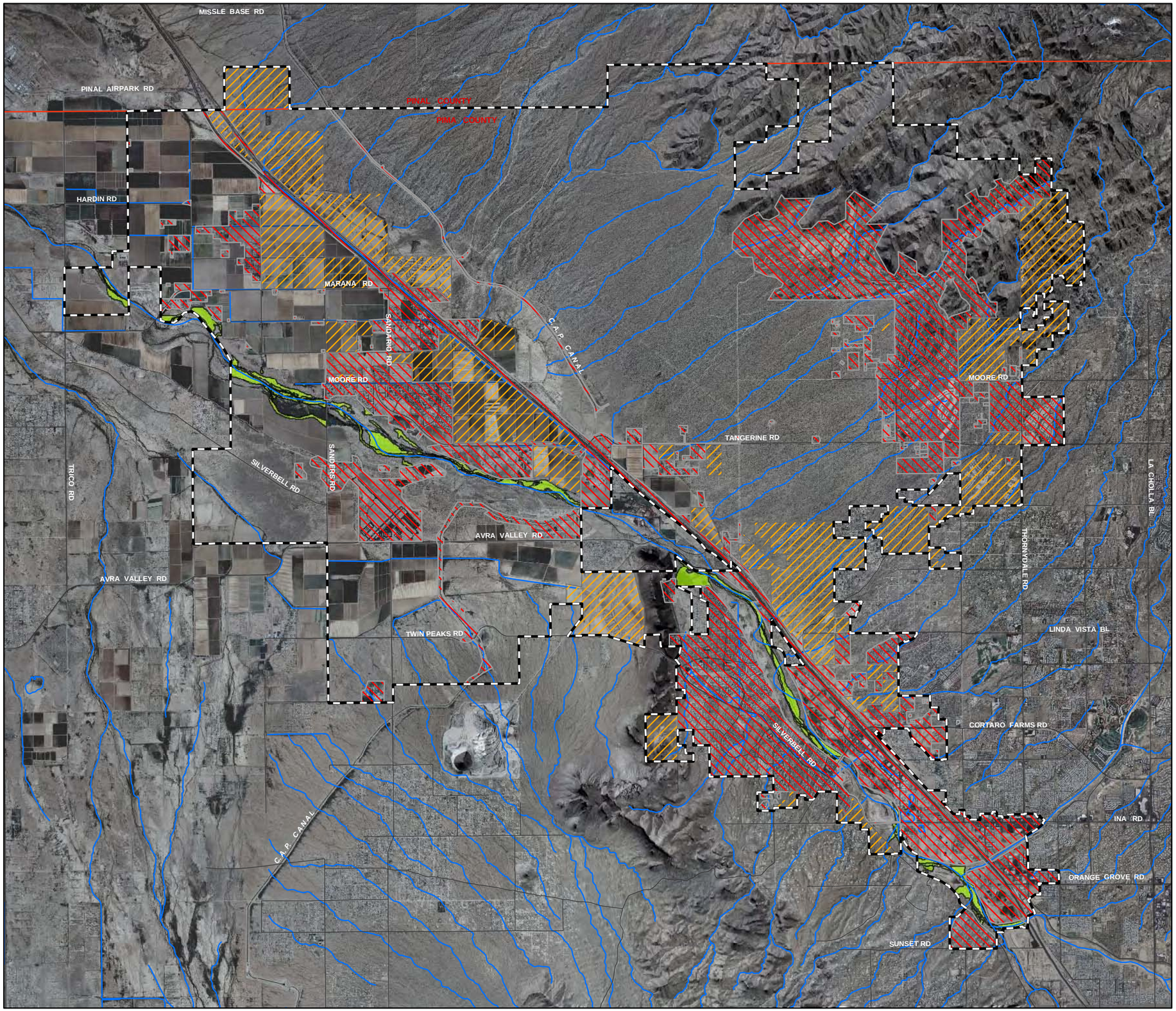


# FIGURE 4.12 SOUTHWESTERN WILLOW FLYCATCHER POTENTIAL HABITAT AND DEVELOPMENT

- Southwestern Willow Flycatcher Potential Habitat 1,141 Acres
- Entitled Land
- Developed Land
- Washes
- HCP Permit Area
- Marana Town Limits

N
W E
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0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.12 Southwestern Willow Flycatcher Potential Habitat and Development.mxd

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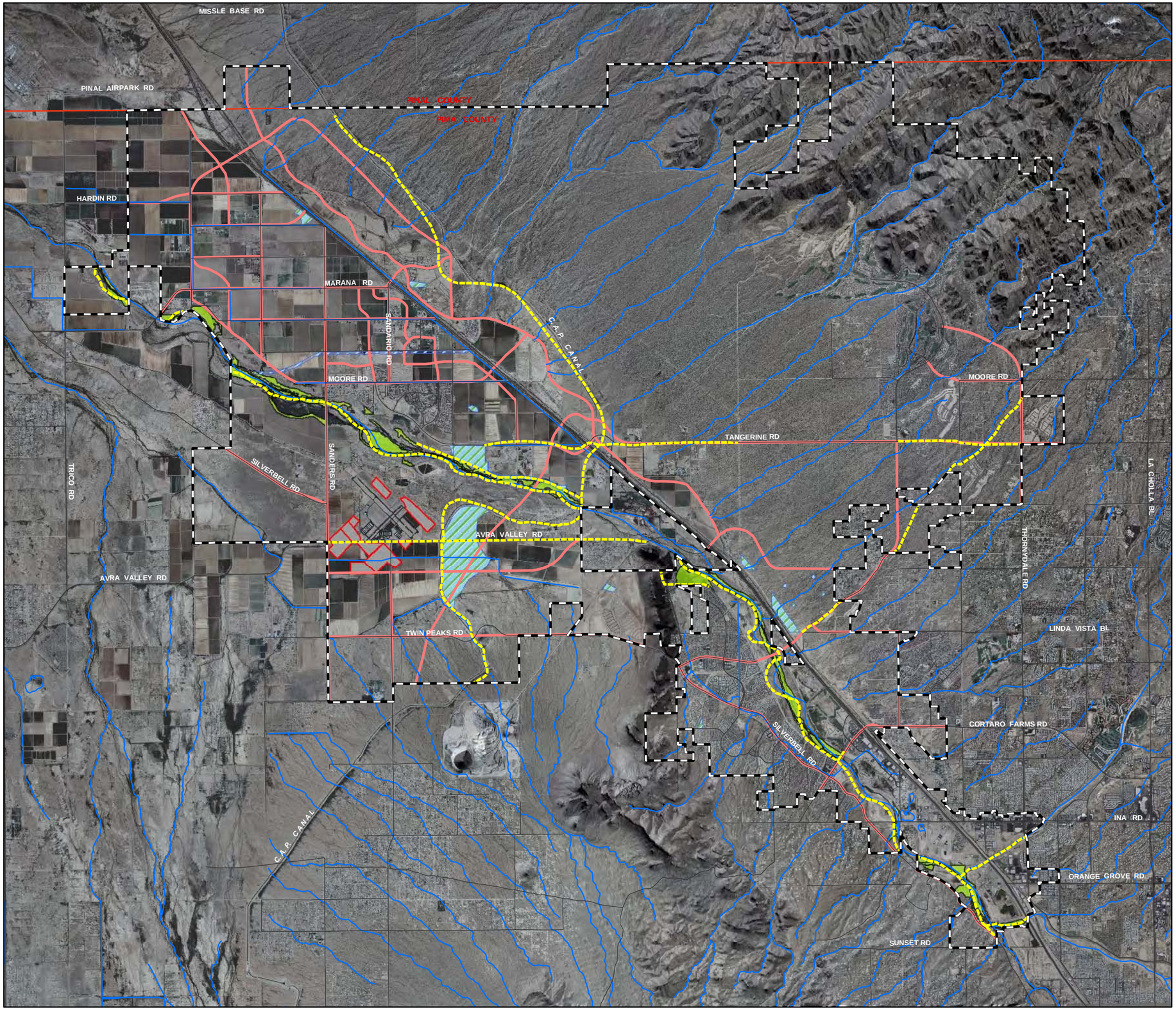


# FIGURE 4.13 WESTERN YELLOW-BILLED CUCKOO POTENTIAL HABITAT AND CIP

- Western Yellow Billed Cuckoo Potential Habitat 1,141 Acres
- Proposed Trails 75 Acres Impact
- Proposed Parks 11 Acres Impact
- Airport Development 0 Acres Impact
- Barnett Channel 2 Acres Impact
- Proposed Streets 22 Acres Impact
- Washes
- HCP Permit Area Marana Town Limits

N W E S

0 0.5 1 2 3

Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.13 Western Yellow-billed Cuckoo Potential Habitat and CIP.mxd

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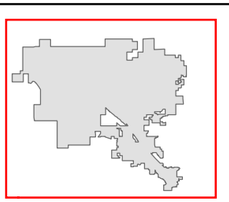

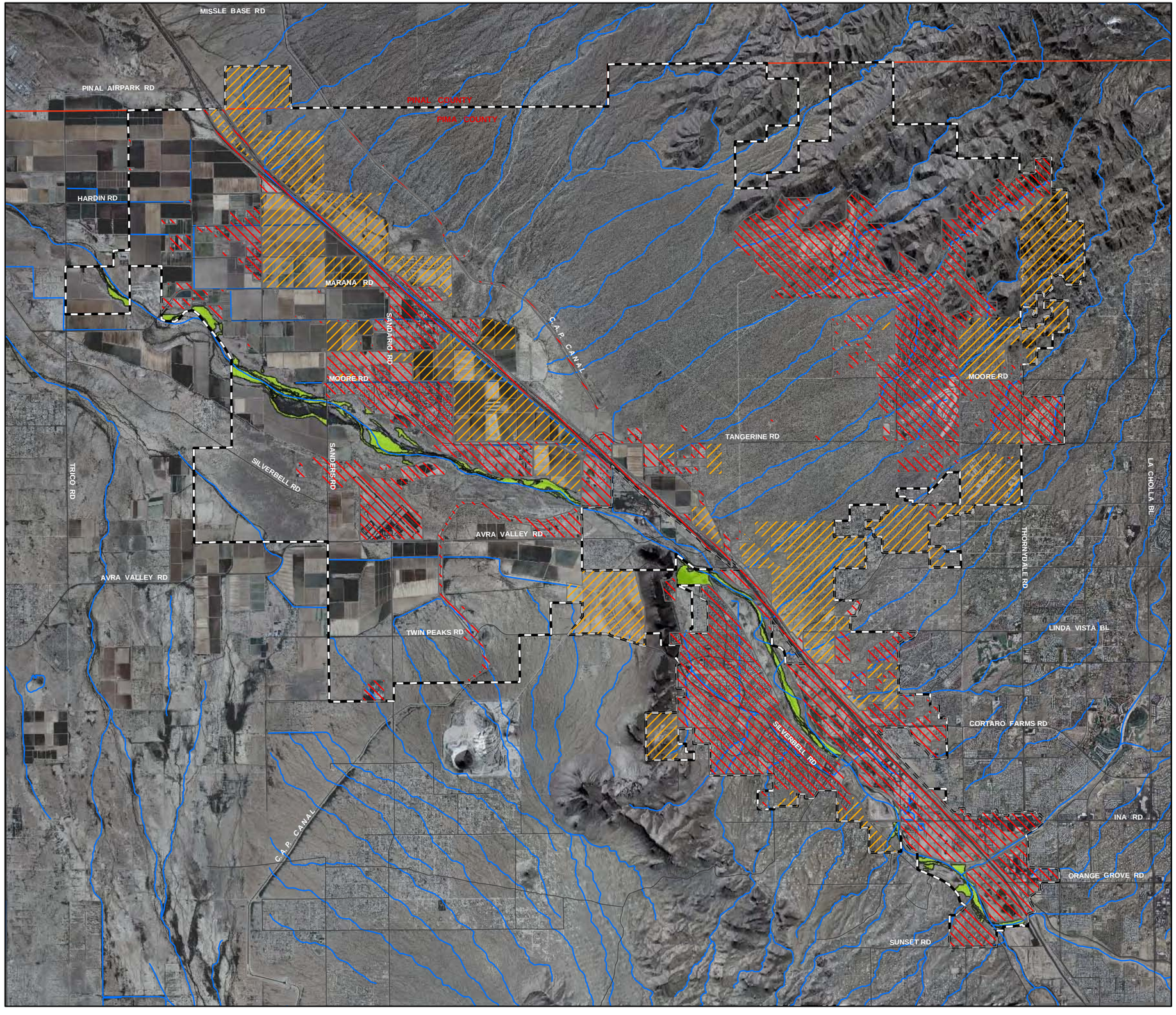


# FIGURE 4.14 WESTERN YELLOW-BILLED CUCKOO POTENTIAL HABITAT AND DEVELOPMENT

- Western Yellow-billed Cuckoo Potential Habitat 1,141 Acres
- Entitled Land
- Developed Land
- Washes
- HCP Permit Area
- Marana Town Limits

N
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0 0.5 1 2 3

Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.14 Western Yellow-billed Cuckoo Potential Habitat and Development.mxd

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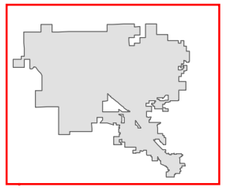

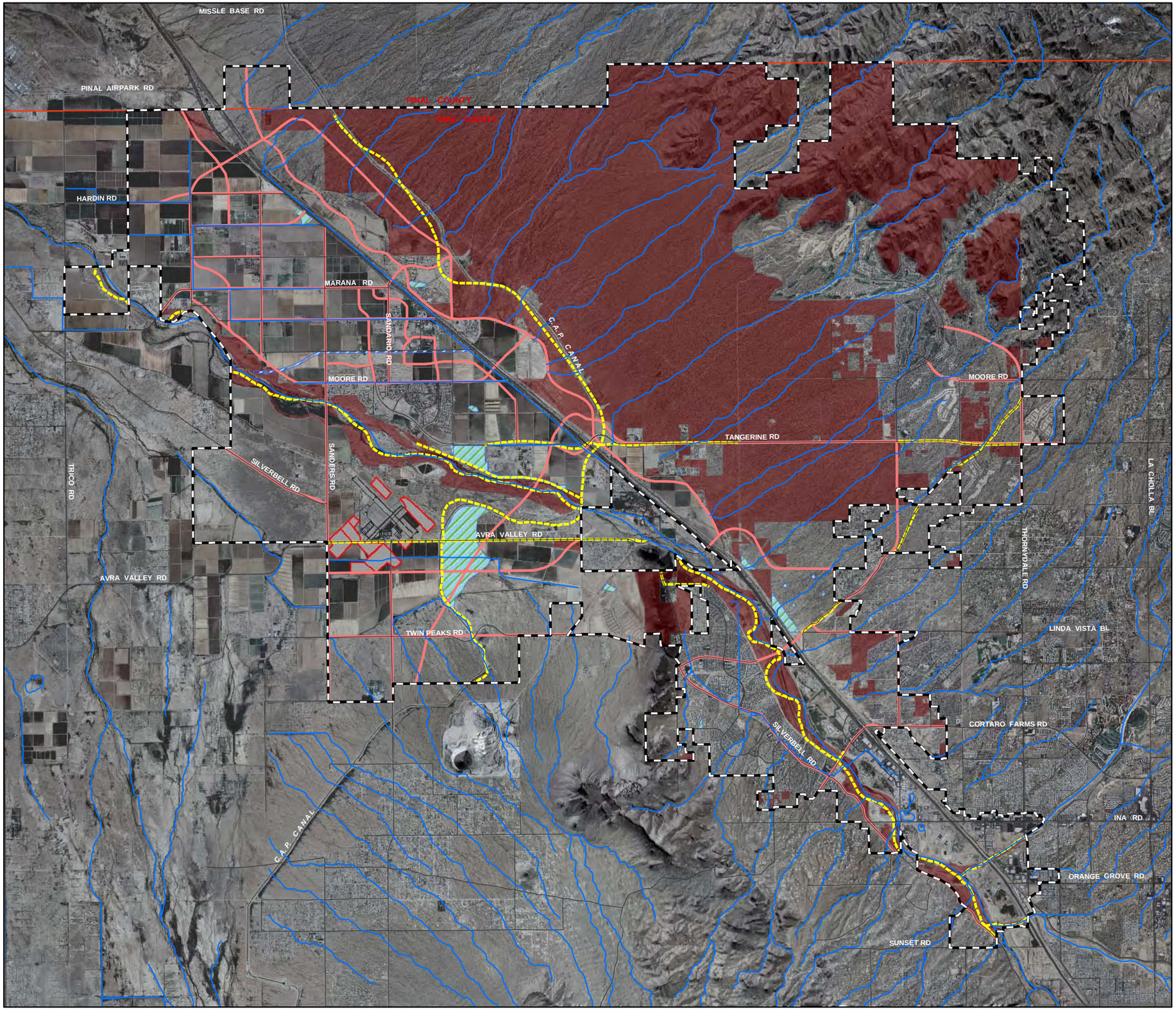


# FIGURE 4.15
# LESSER LONG-NOSED BAT POTENTIAL HABITAT AND CIP

- Lesser Long-nosed Bat Potential Habitat 32,094 Acres
- Proposed Trails 164 Acres Impact
- Barnett Channel 8 Acres Impact
- Proposed Parks 11 Acres Impact
- Airport Development 0 Acres Impact
- Proposed Streets 925 Acres Impact
- Washes
- HCP Permit Area Marana Town Limits

N W E S

0 0.5 1 2 3

Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\Figure 4.11 Lessor Long-Nosed Bat Modeled Habitat.mxd

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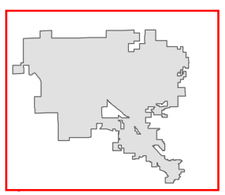

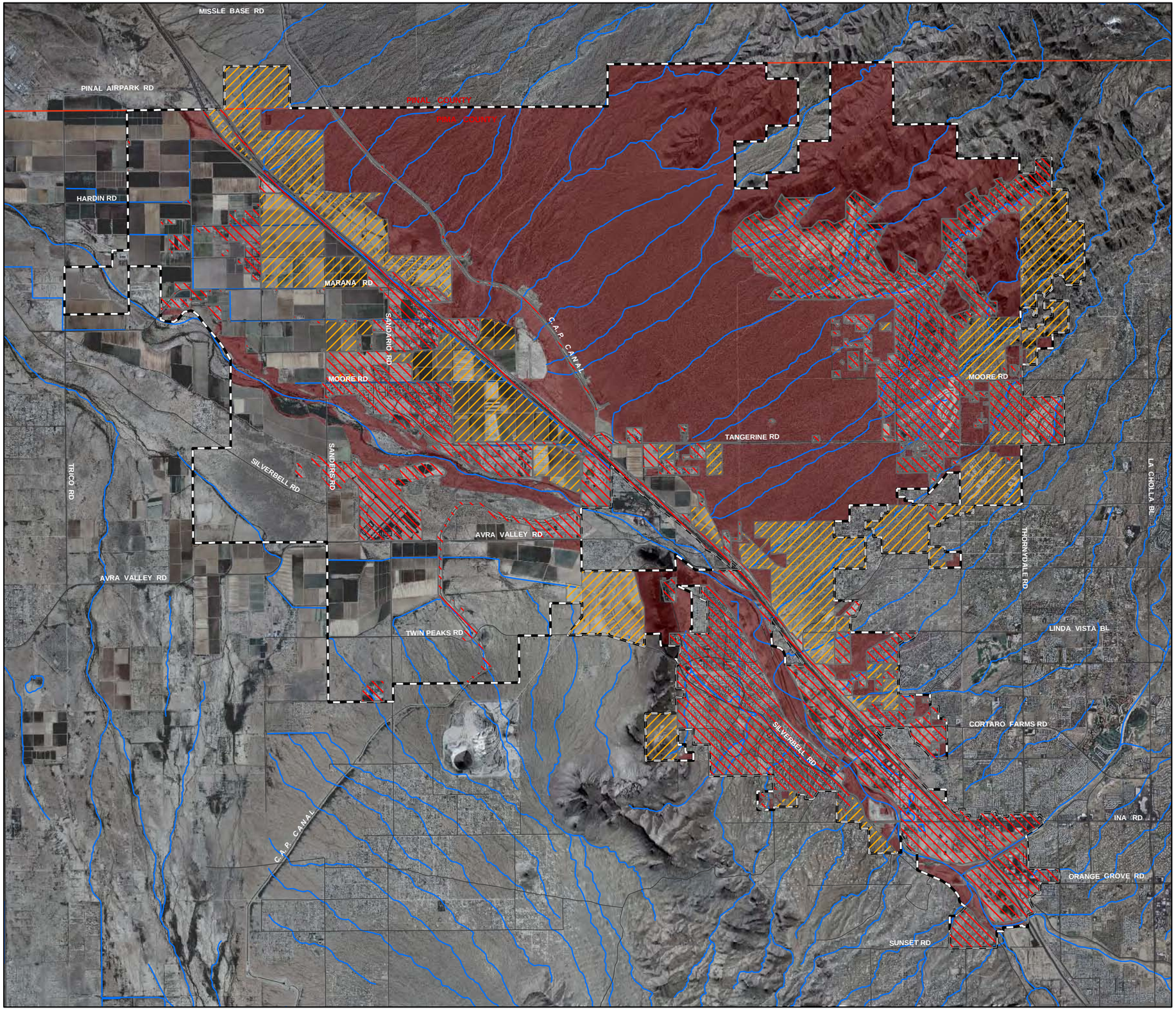


# FIGURE 4.16
# LESSER LONG-NOSED BAT POTENTIAL HABITAT AND DEVELOPMENT

- Lesser Long-nosed Bat Potential Habitat 32,094 Acres
- Developed Land
- Entitled Land
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.16 Lessor Long-nosed Bat Potential Habitat and Development.mxd

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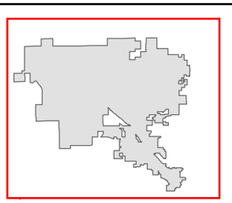

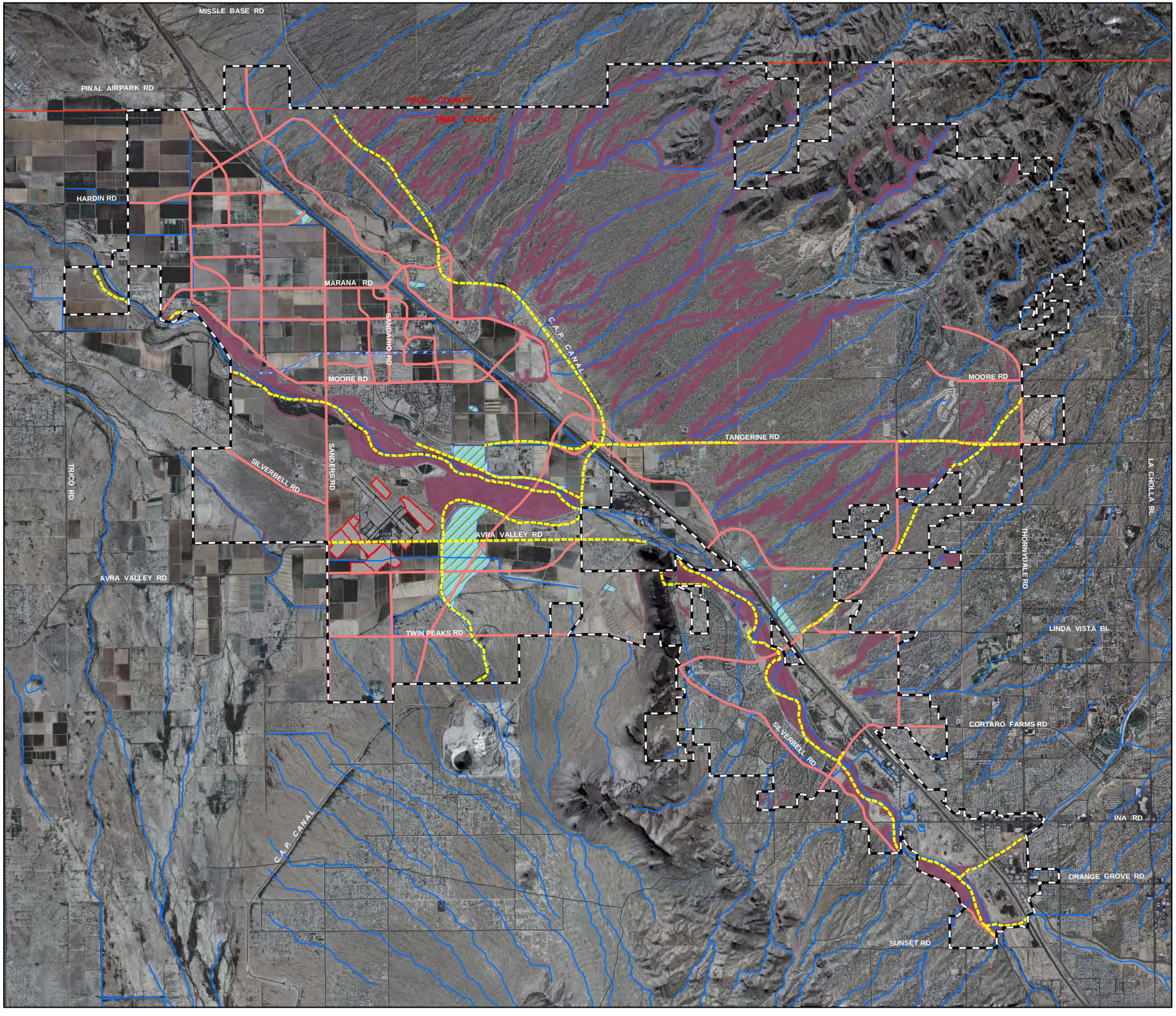


# FIGURE 4.17
# MERRIAM'S MESQUITE MOUSE POTENTIAL HABITAT AND CIP

- Mesquite Mouse Potential Habitat 11,392 Acres
- Proposed Trails 146 Acres Impact
- Proposed Parks 17 Acres Impact
- Airport Development No Impact
- Proposed Streets 257 Acres Impact
- Washes
- HCP Permit Area Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.17 Merriam's Mesquite Mouse Potential Habitat and CIP.mxd

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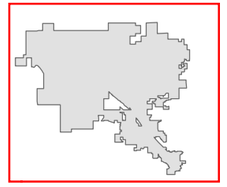

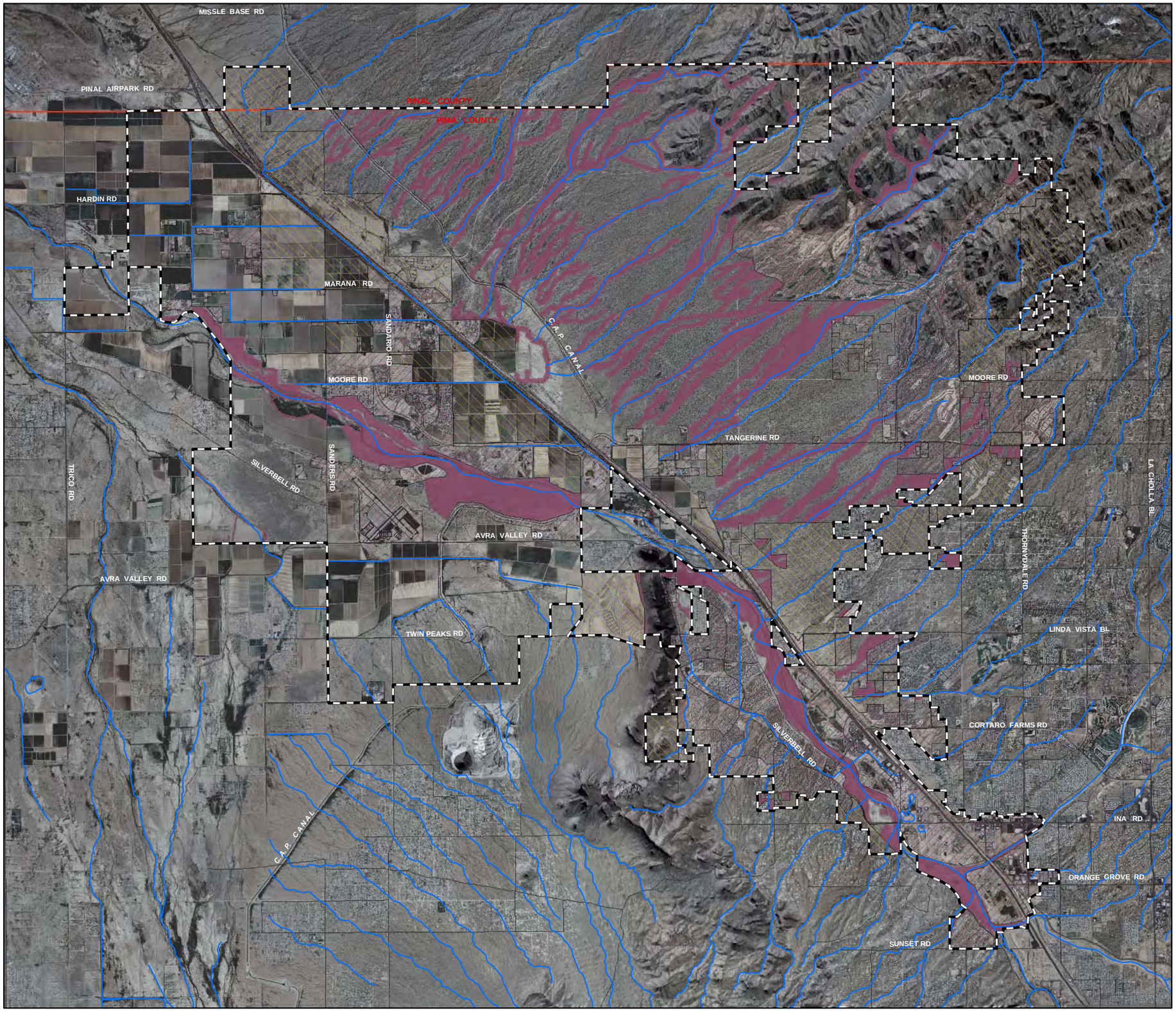


# FIGURE 4.18
# MERRIAM'S MESQUITE MOUSE POTENTIAL HABITAT AND DEVELOPMENT

Merriam's Mesquite Mouse Potential Habitat - 11,392 Acres

Entitled Land

Developed Land

Washes

HCP Permit Area
Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.18 Merriam's Mesquite Mouse Potential Habitat and Development.mxd
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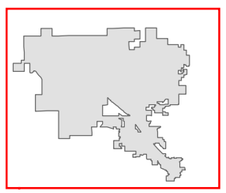

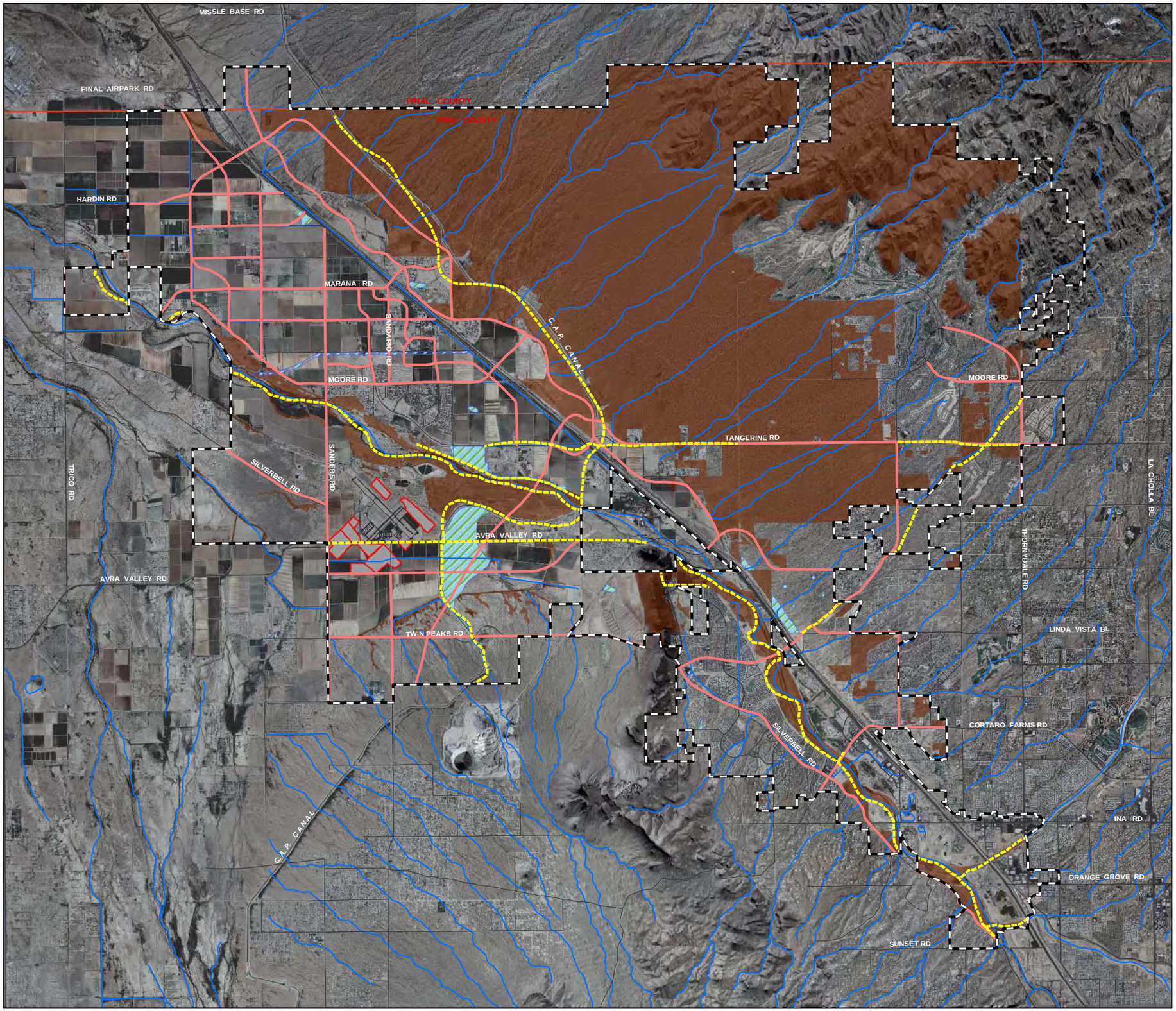


# FIGURE 4.19
# PALE TOWNSEND'S BIG-EARED BAT POTENTIAL HABITAT AND CIP

- Pale Townsend's Big-eared Bat Potential Habitat
  44,528 Acres
- Proposed Trails
  153 Acres Impact
- Proposed Parks
  92 Acres Impact
- Barnett Channel
  7 Acres Impact
- Airport Development
  0 Acres Impact
- Proposed Streets
  934 Acres Impact
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.19 Pale Townsend's Big-eared Bat Potential Habitat.mxd

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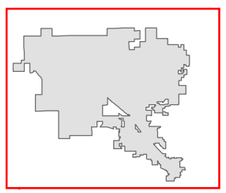

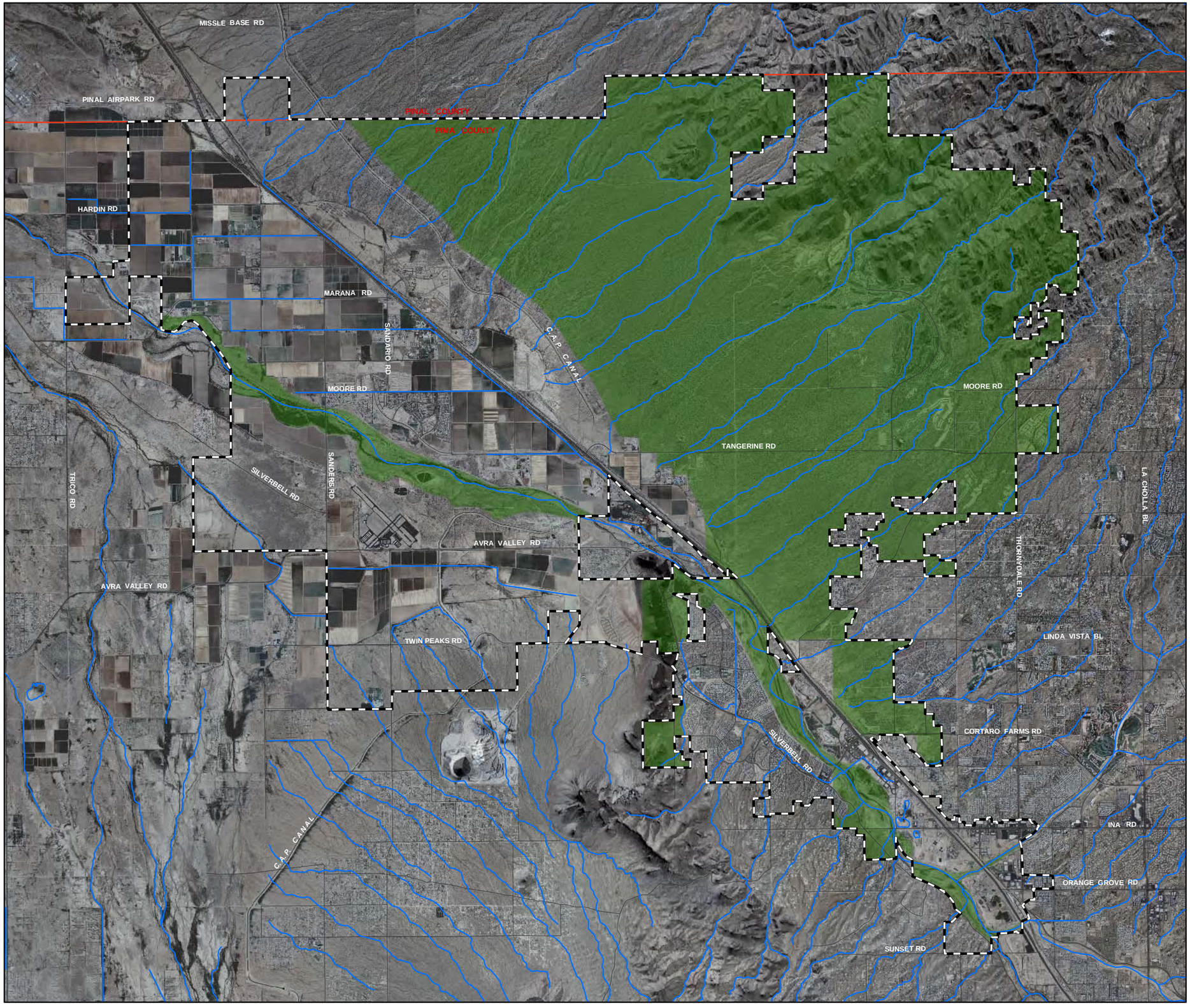


# Figure 4.2 Environmentally Sensitive Lands in the Town of Marana

- Environmentally Sensitive Lands
- HCP Permit Area Marana Town Limits
- Washes
- County Line

N
W E
S

0 0.5 1 2 3 Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\Figure 4.2 Environmentally Sensitive Lands in the Town of Marana.mxd

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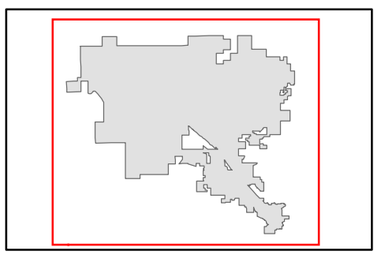

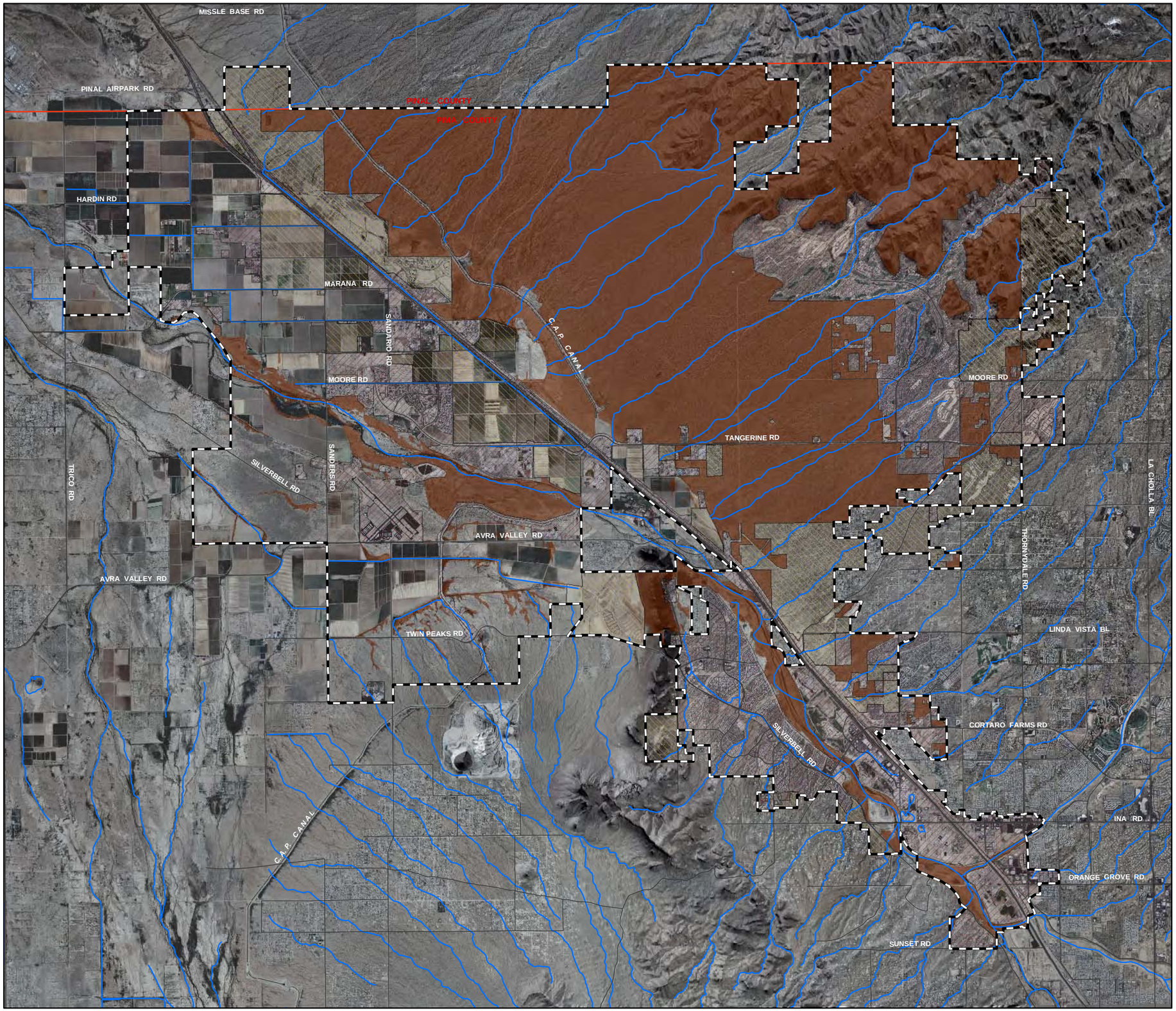


# FIGURE 4.20
# PALE TOWNSEND'S BIG-EARED BAT POTENTIAL HABITAT AND DEVELOPMENT

- Pale Townsend's Big-eared Bat Potential Habitat 44,528 Acres
- Entitled Land
- Developed Land
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.20 Pale Townsend's Big-eared Bat Potential Habitat and Development.mxd

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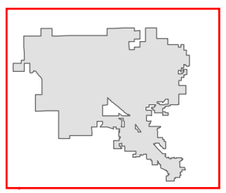

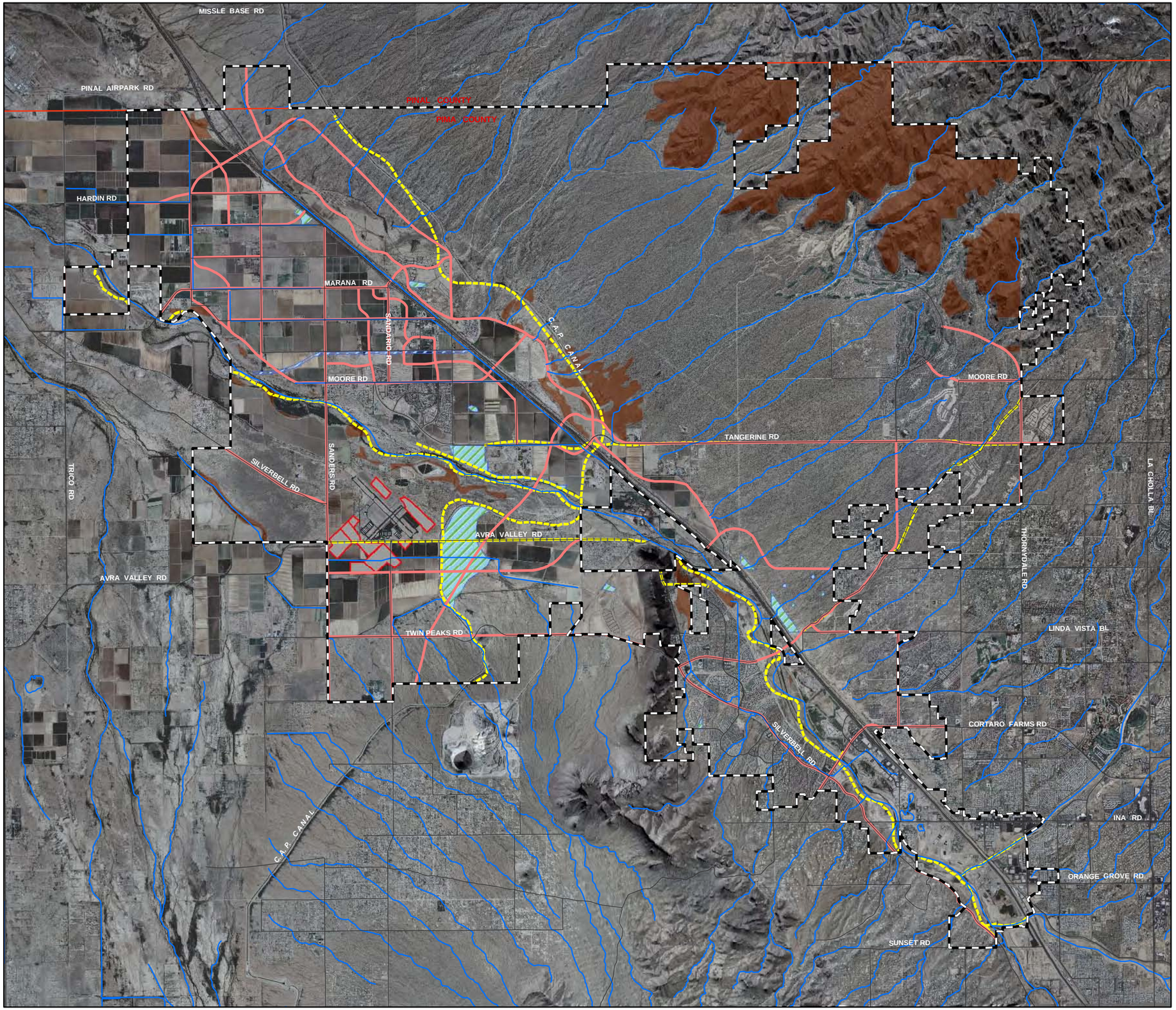


# FIGURE 4.21
# GROUND SNAKE POTENTIAL HABITAT AND CIP

- Ground Snake Potential Habitat, 7,480 Acres
- Proposed Trails
  21 Acres Impact
- Proposed Parks
  0 Acres Impact
- Airport Development
  0 Acres Impact
- Barnett Channel
  0 Acres Impact
- Proposed Streets
  171 Acres Impact
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.21 Ground Snake Potential Habitat and CIP.mxd

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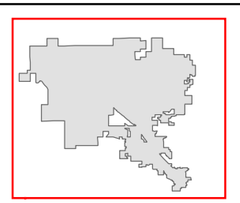

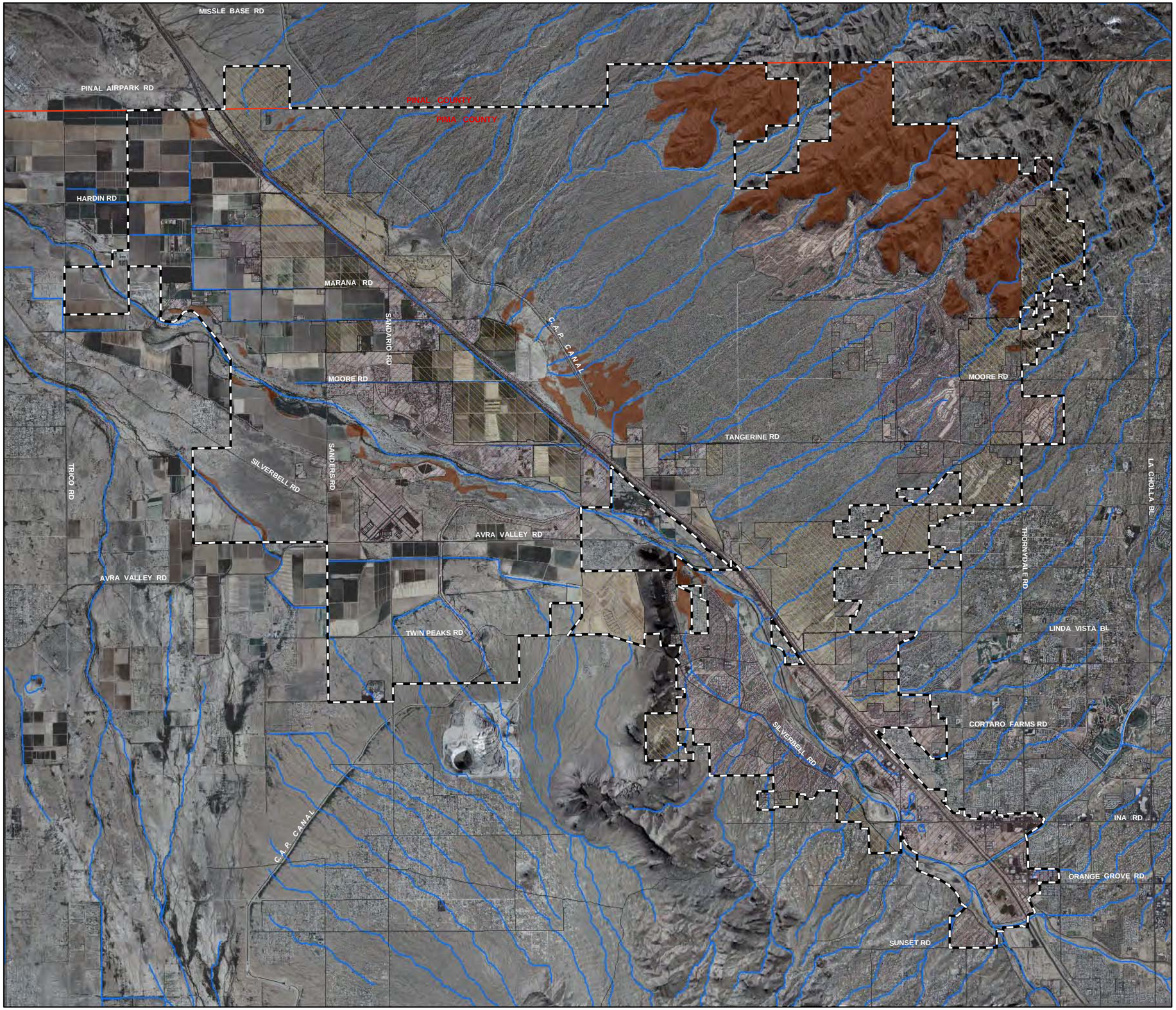


# FIGURE 4.22
# GROUND SNAKE POTENTIAL HABITAT AND DEVELOPMENT

- Ground Snake Potential Habitat 7,480 Acres
- Entitled Land
- Developed Land
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3

Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.22 Ground Snake Potential Habitat and Development.mxd

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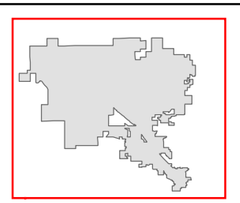

# FIGURE 4.23
# MEXICAN GARTER SNAKE POTENTIAL HABITAT AND CIP

- Mexican Garter Snake Potential Habitat - 1,120 Acres
- Proposed Trails 59 Acres Impact
- Proposed Parks 9 Acres Impact
- Airport Development 0 Acres Impact
- Barnett Channel 0 Acres Impact
- Proposed Streets 11 Acres Impact
- Washes
- HCP Permit Area Marana Town Limits

N
W E
S

0 0.5 1 2 3

Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.23 Mexican Garter Snake Potential Habitat and CIP.mxd

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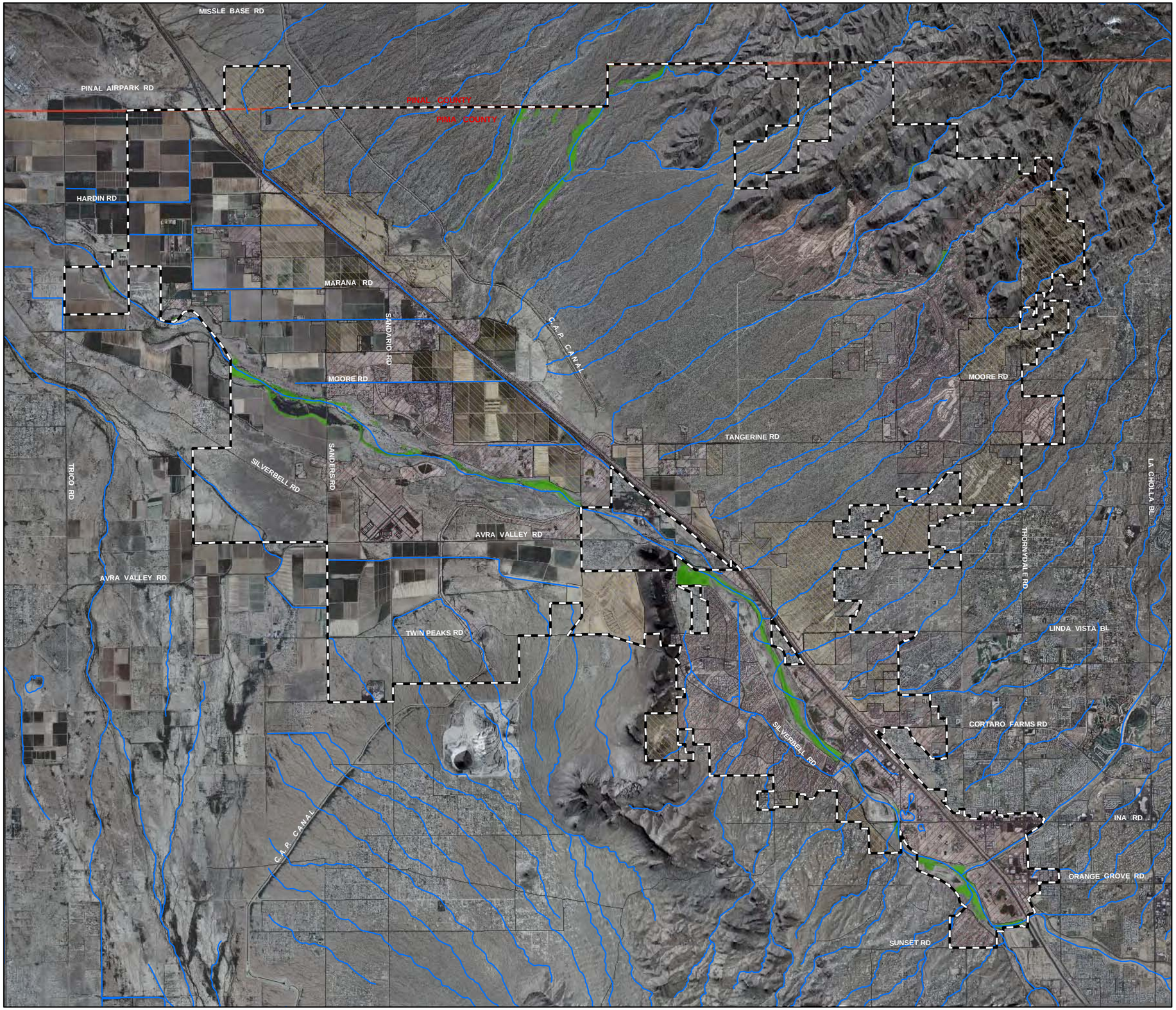


# FIGURE 4.24
# MEXICAN GARTER SNAKE POTENTIAL HABITAT AND DEVELOPMENT

- Mexican Garter Snake Potential Habitat - 1,120 Acres
- Entitled Land
- Developed Land
- Washes
- HCP Permit Area
- Marana Town Limits

N
W E
S

0 0.5 1 2 3

Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.24 Mexican Garter Snake Potential Habitat and Development.mxd

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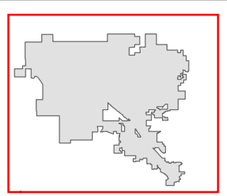

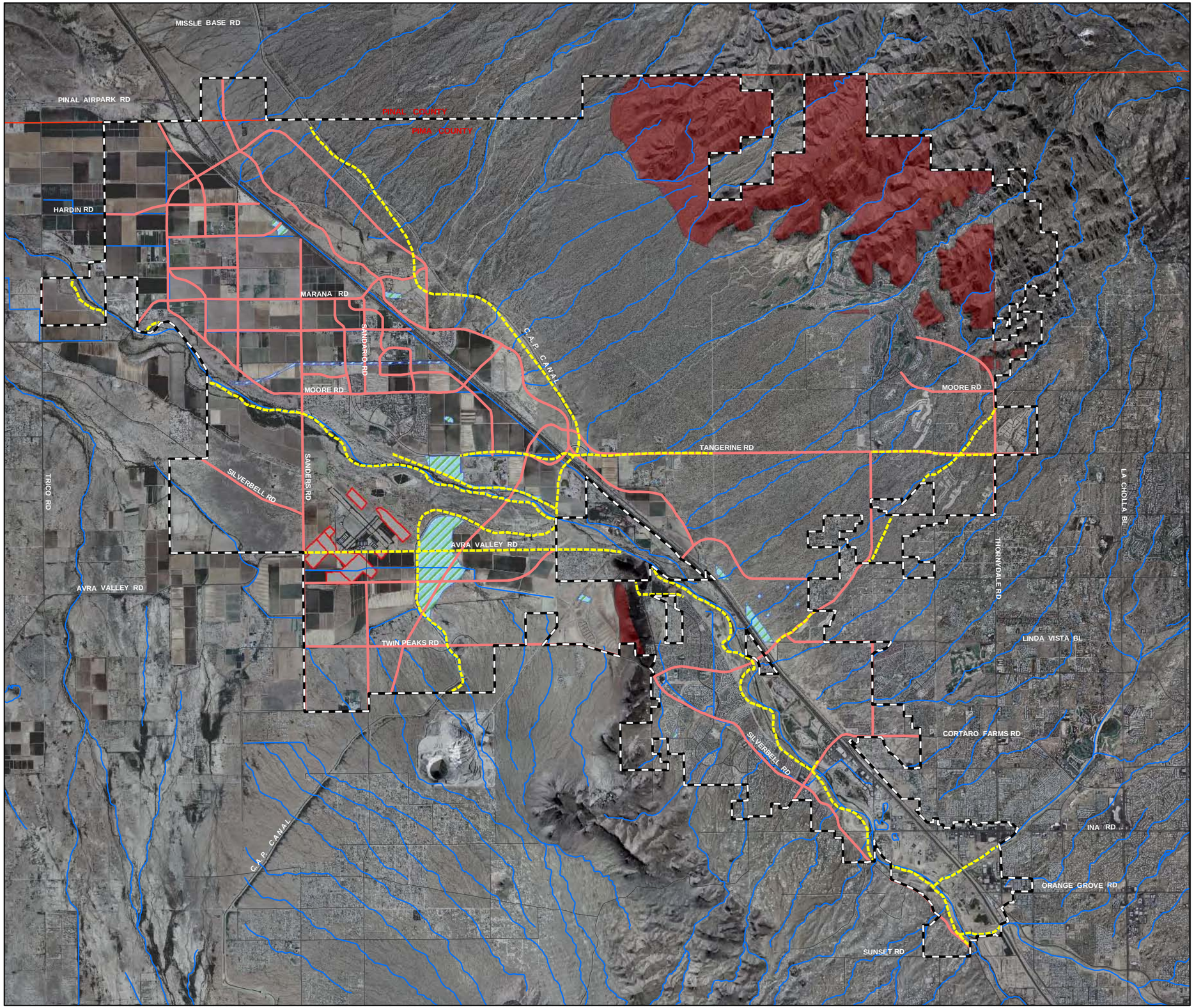


# Figure 4.25
# Sonoran Desert Tortoise Potential Habitat and CIP

- Desert Tortoise Potential Habitat - 7,413 Acres
- Proposed Trails 0 Acres Impact
- Proposed Parks 0 Acres Impact
- Barnett Channel 0 Acres Impact
- Airport Development 0 Acres Impact
- Proposed Streets 4 Acres Impact
- Washes
- HCP Permit Area Marana Town Limits

N
W E
S

0 0.5 1 2 3 Miles

Background Imagery:
July 2007 NAIP Aerial Photography
File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.25 Sonoran Desert Tortoise Potential Habitat and CIP.mxd
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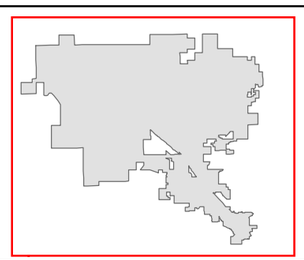

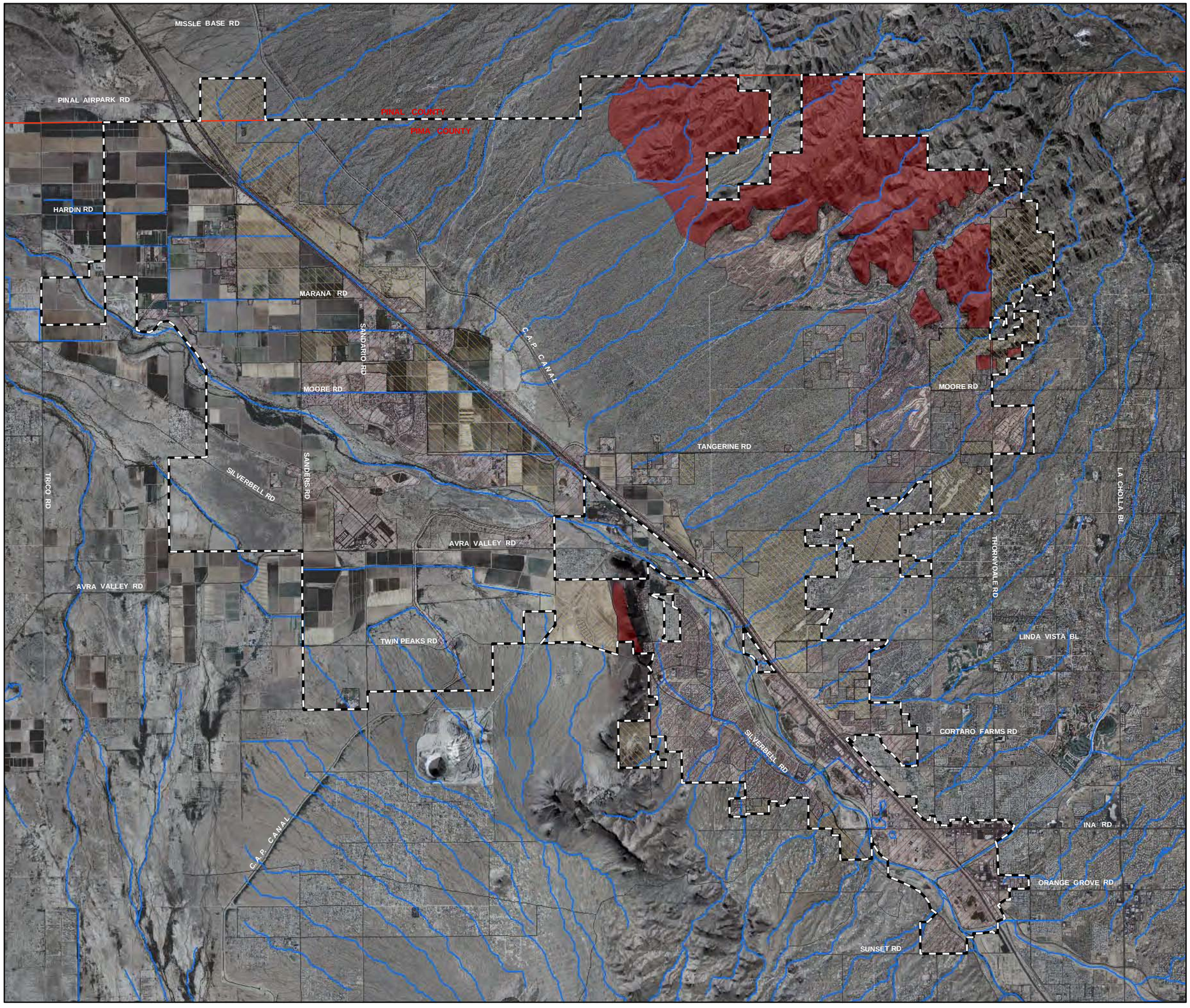


# Figure 4.26
# Sonoran Desert Tortoise Potential Habitat and Land Development

- Desert Tortoise Potential Habitat - 7,413 Acres
- Developed Land
- Entitled Land
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3 Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.26 Sonoran Desert Tortoise Potential Habitat and Development.mxd

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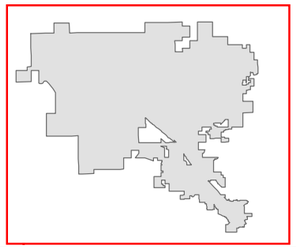
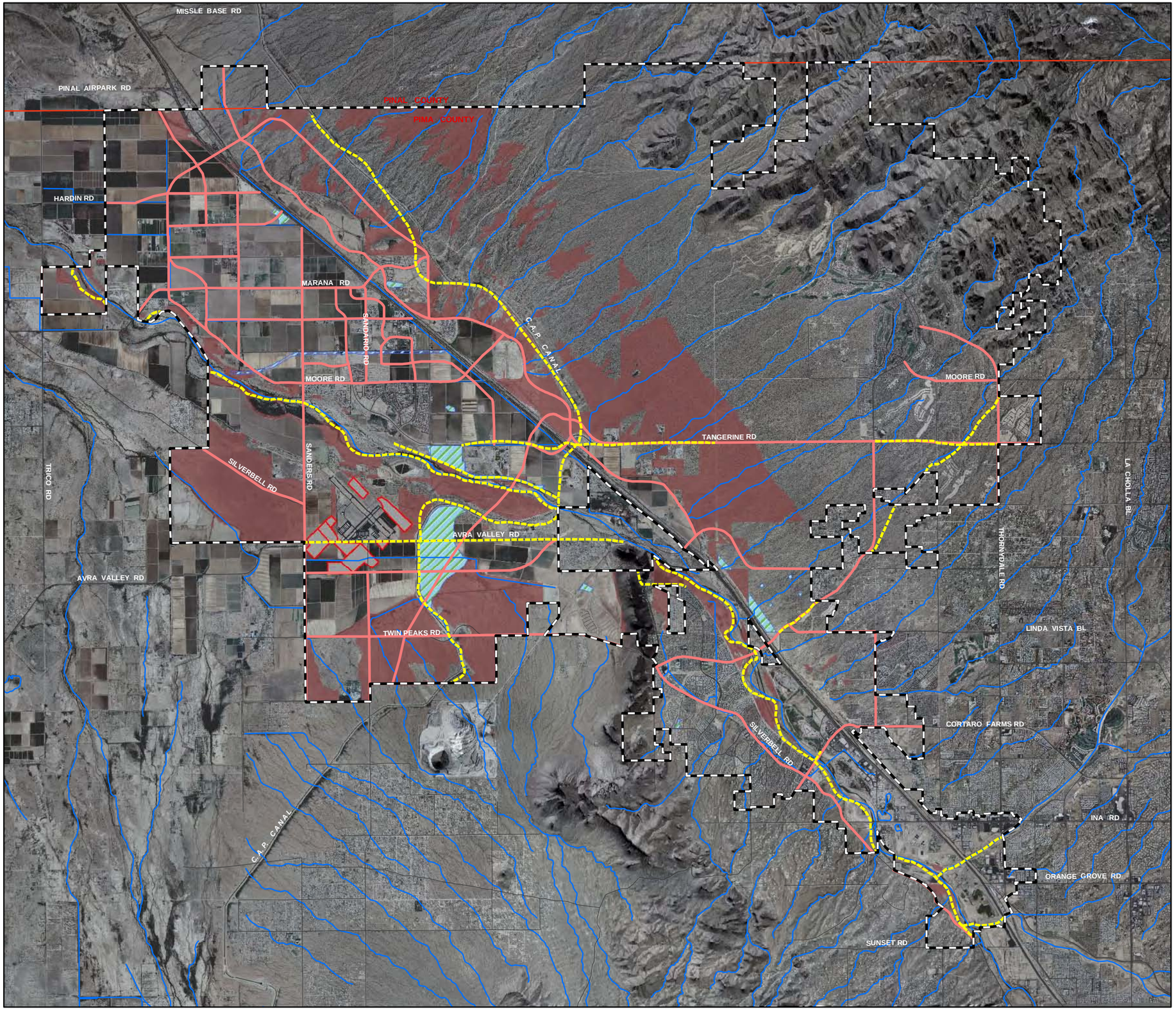


# FIGURE 4.27
# TUCSON SHOVEL-NOSED SNAKE POTENTIAL HABITAT AND CIP




Tucson Shovel-nosed Snake - 12,870 Acres

Proposed Trails
96 Acres Impact

Proposed Parks
188 Acres Impact

Barnett Channel
5 Acres Impact

Airport Development
48 Acres Impact

Proposed Streets
793 Acres Impact

Washes

HCP Permit Area
Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery Data Source:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\
November_08\12_15_08_for_CH\
Figure 4.27 Tucson Shovel-nosed Snake
Potential Habitat and CIP.mxd
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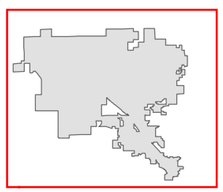

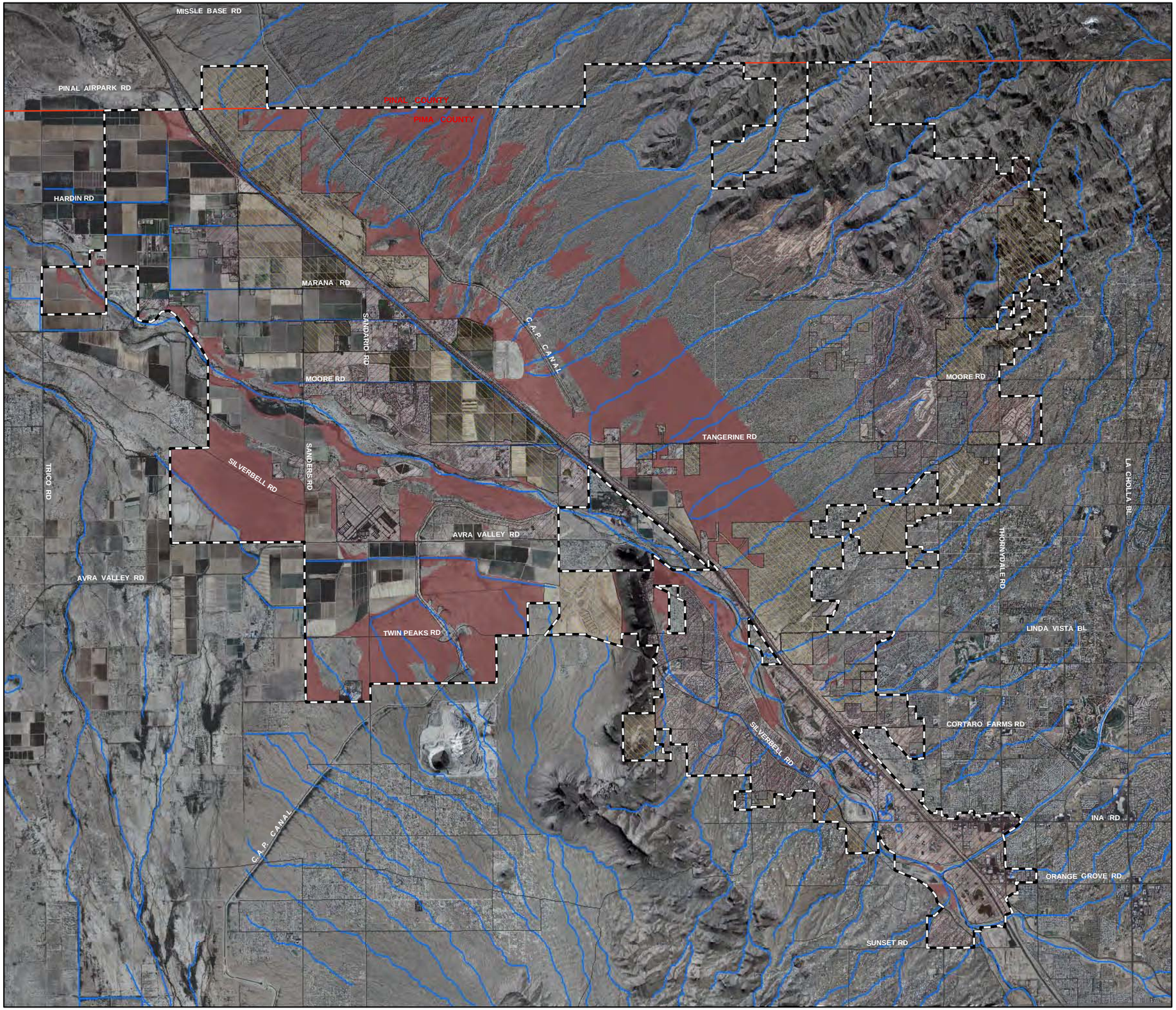


# FIGURE 4.28
# TUCSON SHOVEL-NOSED SNAKE POTENTIAL HABITAT AND DEVELOPMENT

- Tucson Shovel-nosed Snake - 12,870 Acres
- Developed Land
- Entitled Land
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery Data Source:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\Figure 4.28 Tucson Shovel-nosed Snake Potential Habitat and Development.mxd

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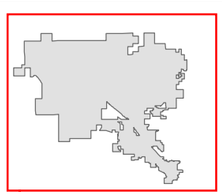

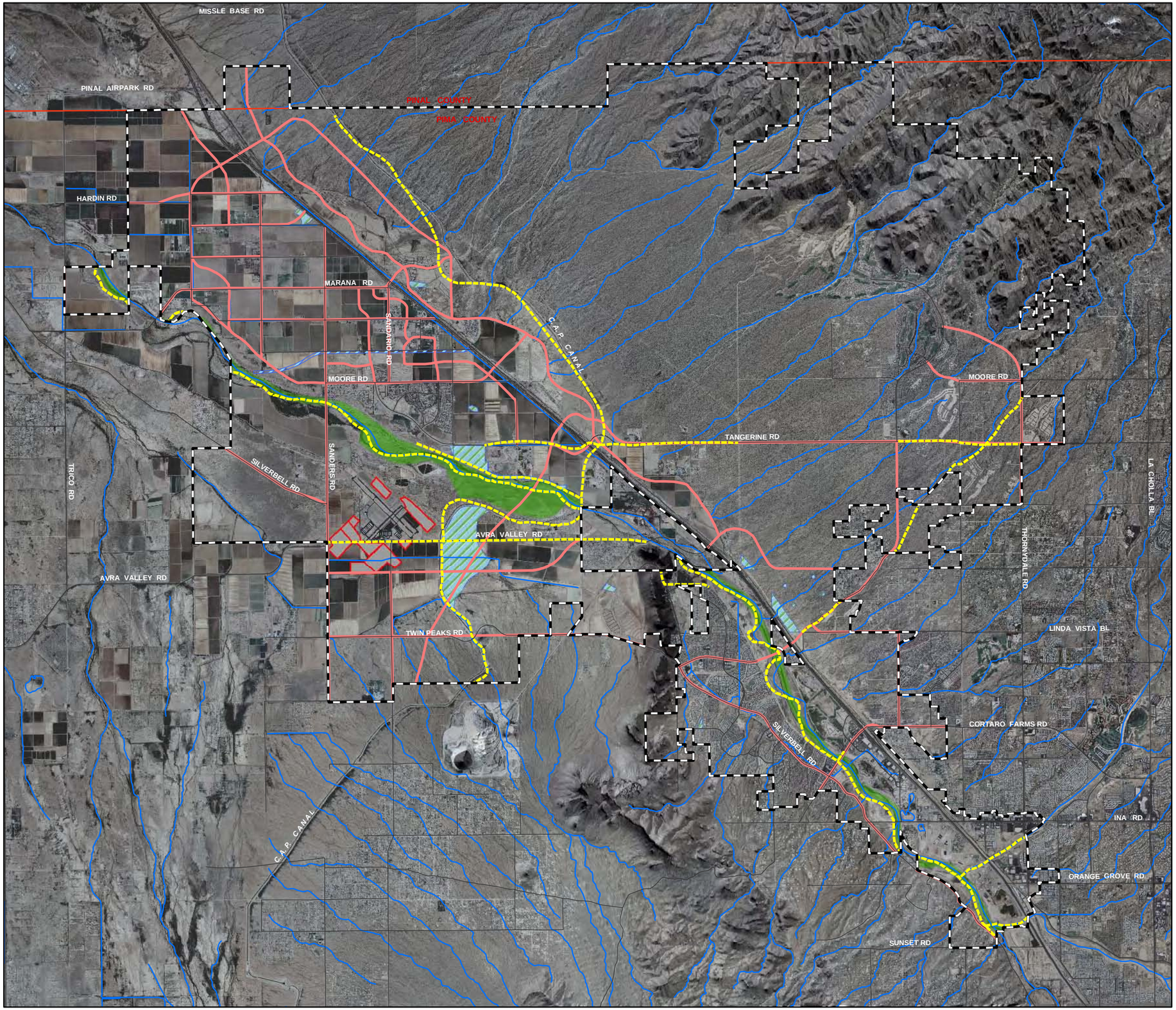


# FIGURE 4.29
# LOWLAND LEOPARD FROG POTENTIAL HABITAT AND CIP

- Lowland Leopard Frog
  1,680 Acres
- Proposed Trails
  74 Acres Impact
- Barnett Channel
  0 Acres Impact
- Proposed Parks
  12 Acres Impact
- Airport Development
  0 Acres Impact
- Proposed Streets
  17 Acres Impact
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery Data Source:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\
November_08\12_15_08_for_CH\
Figure 4.29 Lowland Leopard Frog
Potential Habitat and CIP.mxd
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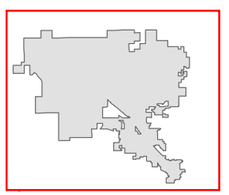

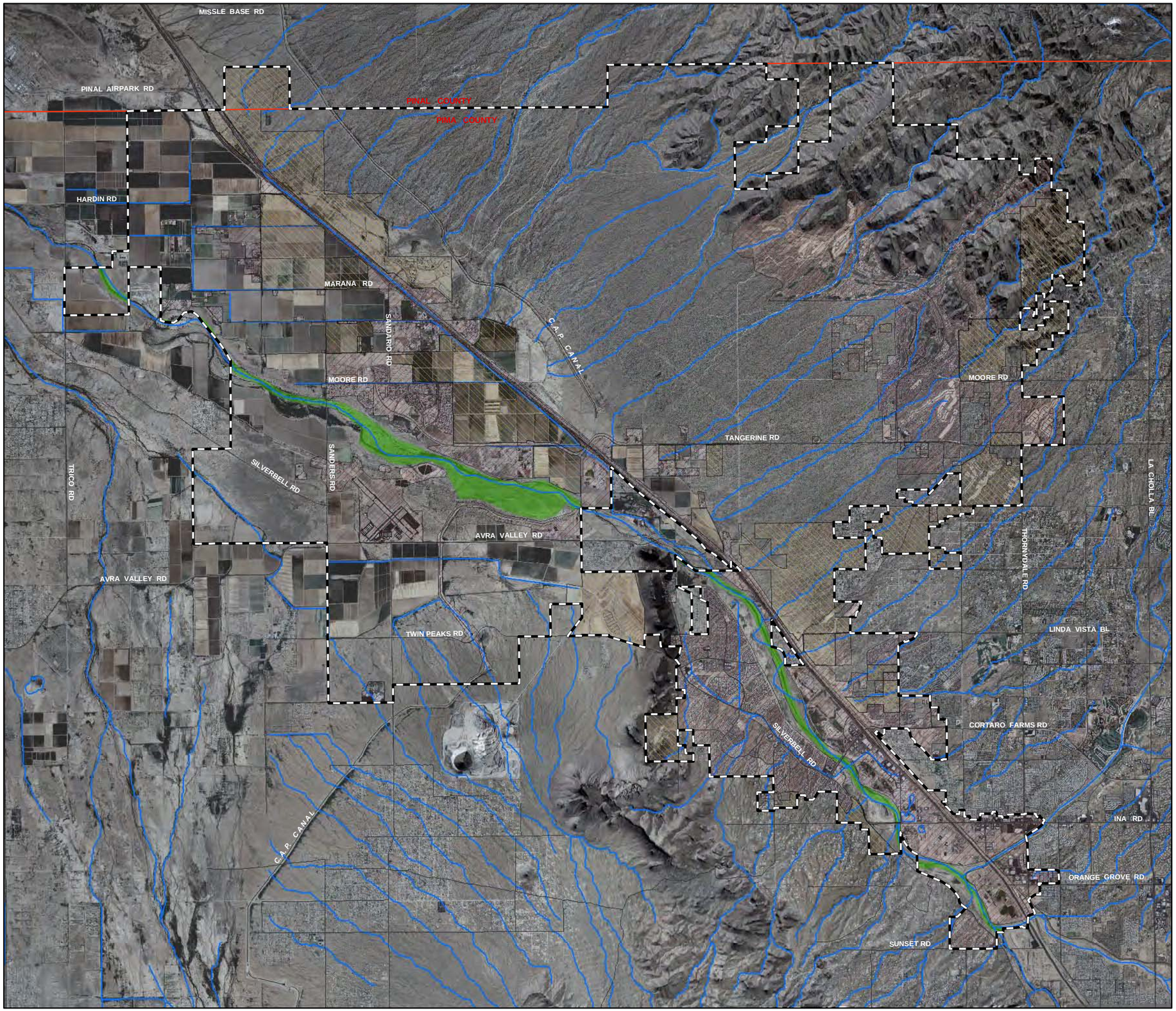


# FIGURE 4.30
# LOWLAND LEOPARD FROG POTENTIAL HABITAT AND DEVELOPMENT

- Lowland Leopard Frog 1,680 Acres
- Developed Land
- Entitled Land
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery Data Source:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\Figure 4.30 Lowland Leopard Frog Potential Habitat and Development.mxd

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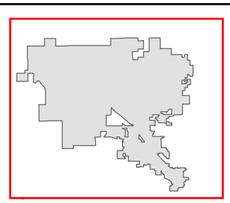
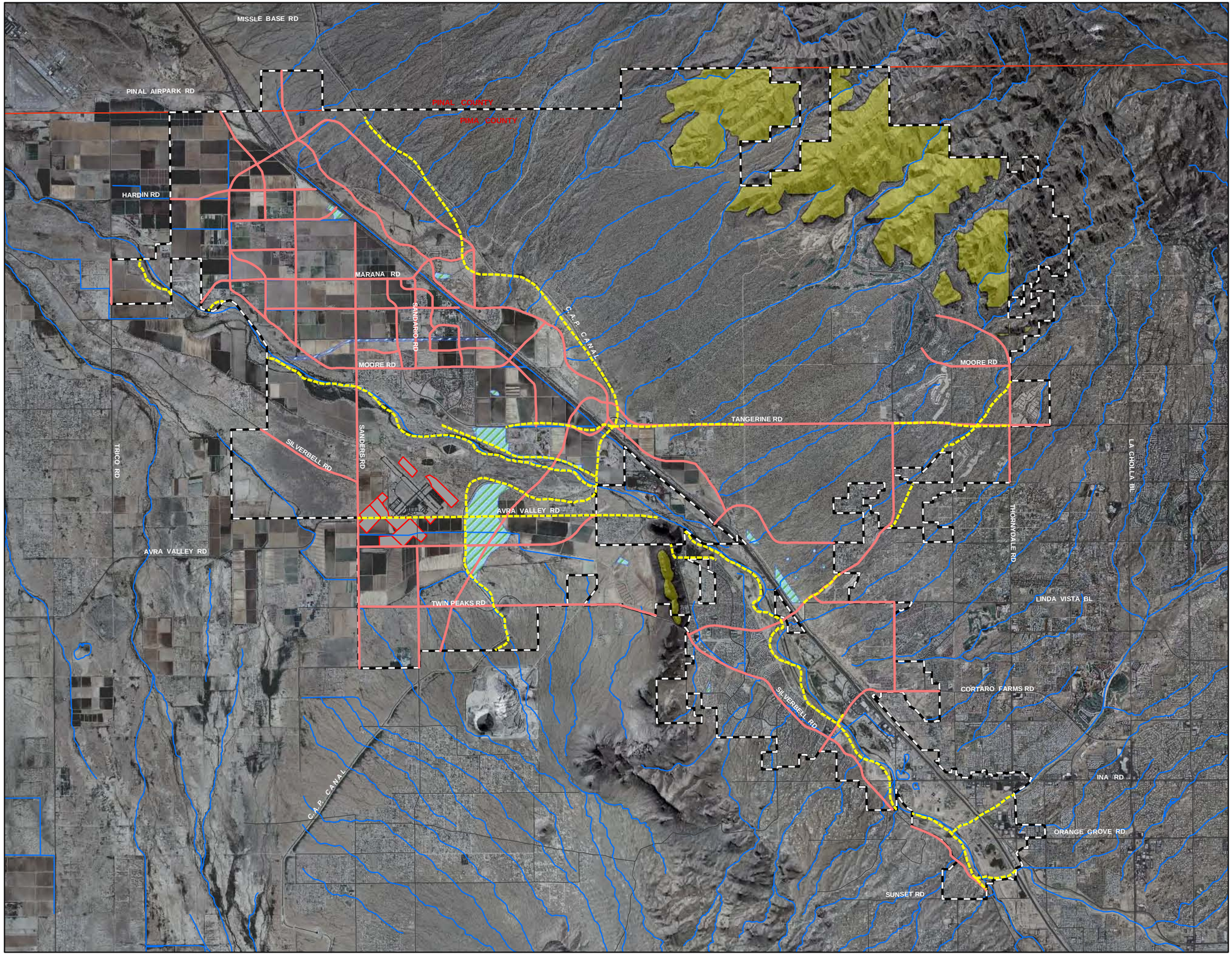


# FIGURE 4.31
# TALUS SNAIL POTENTIAL HABITAT AND CIP




Talus Snail Potential Habitat
6,380 Acres

Proposed Trails
0 Acres Impact

Proposed Parks
0 Acres Impact

Barnett Channel
0 Acres Impact

Airport Development
0 Acres Impact

Proposed Streets
0 Acres Impact

Washes

HCP Permit Area
Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery Data Source:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\Figure 4.31 Talus Snail Potential Habitat and CIP.mxd

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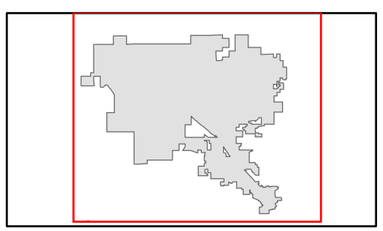

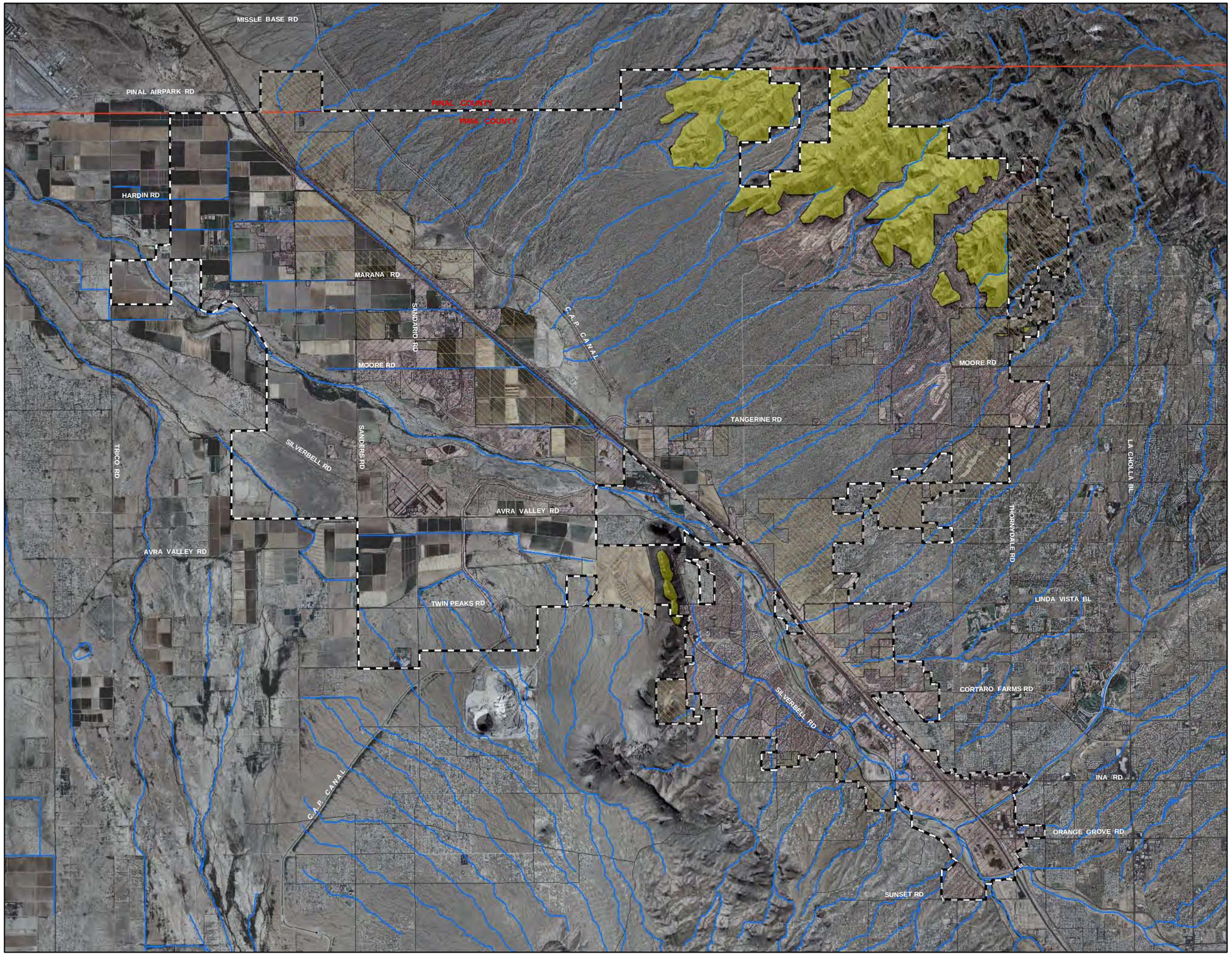


# FIGURE 4.32
# TALUS SNAIL POTENTIAL HABITAT AND DEVELOPMENT

- Talus Snail Potential Habitat - 6,380 Acres
- Developed Land
- Entitled Land
- Washes
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3
Miles

Background Imagery:
July 2007 NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\12_15_08_for_CH\Figure 4.32 Talus Snail Potential Habitat and Development.mxd

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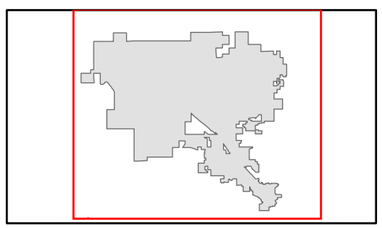


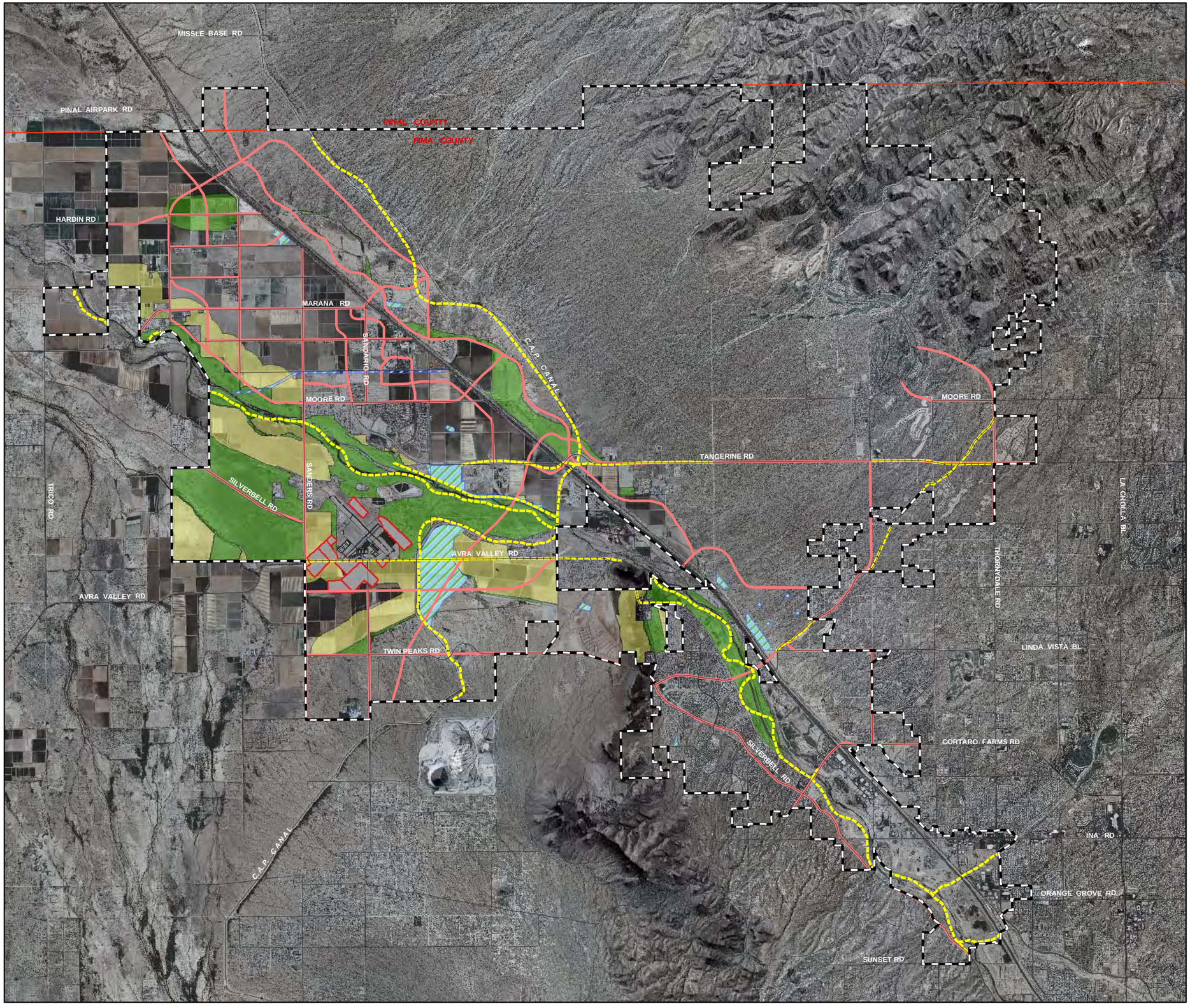
# Figure 4.4 Burrowing Owl Sightings Near and Within the Town

- April 2008 Town of Marana
- Other Sightings
- Summer 2006 Arizona Game and Fish
- Winter 2005 Arizona Game and Fish
- HCP Permit Area Marana Town Limits
- County Line

Background Imagery Data Source:
July 2007 USDA NAIP Aerial Photography
File: U:\PW_Environmental\HCP\final_figs\
November_08\12_15_08_for_CH\
Figure 4.4 Burrowing Owl Sightings
Near and Within the Town, 2005-2008.mxd
© 12-08 Town of Marana

N
W E
S

0 0.5 1 2 3 4 Miles




# Figure 4.5
# Burrowing Owl Potential Habitat and CIP

- Forage - 4,608 Acres
- Nest & Forage - 5,858 Acres
- Proposed Trails
  32 Acres Impact Forage
  93 Acres Imapact Nest & Forage
- Proposed Parks
  440 Acres Impact Forage
  51 Acres Imapact Nest & Forage
- Barnett Channel
  11 Acres Impact Forage
  13 Acres Imapact Nest & Forage
- Proposed Streets
  173Acres Impact Forage
  206Acres Imapact Nest & Forage
- Airport Development
  156 Acres Impact Forage
  36 Acres Imapact Nest & Forage
- HCP Permit Area
  Marana Town Limits

N
W E
S

0 0.5 1 2 3 Miles

Background Imagery Data Source:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.5 Burrowing Owl Potential Habitat and CIP.mxd

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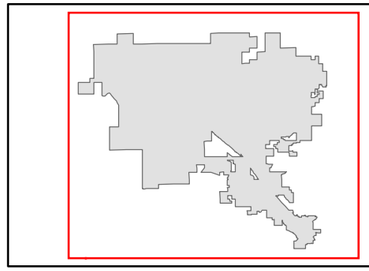
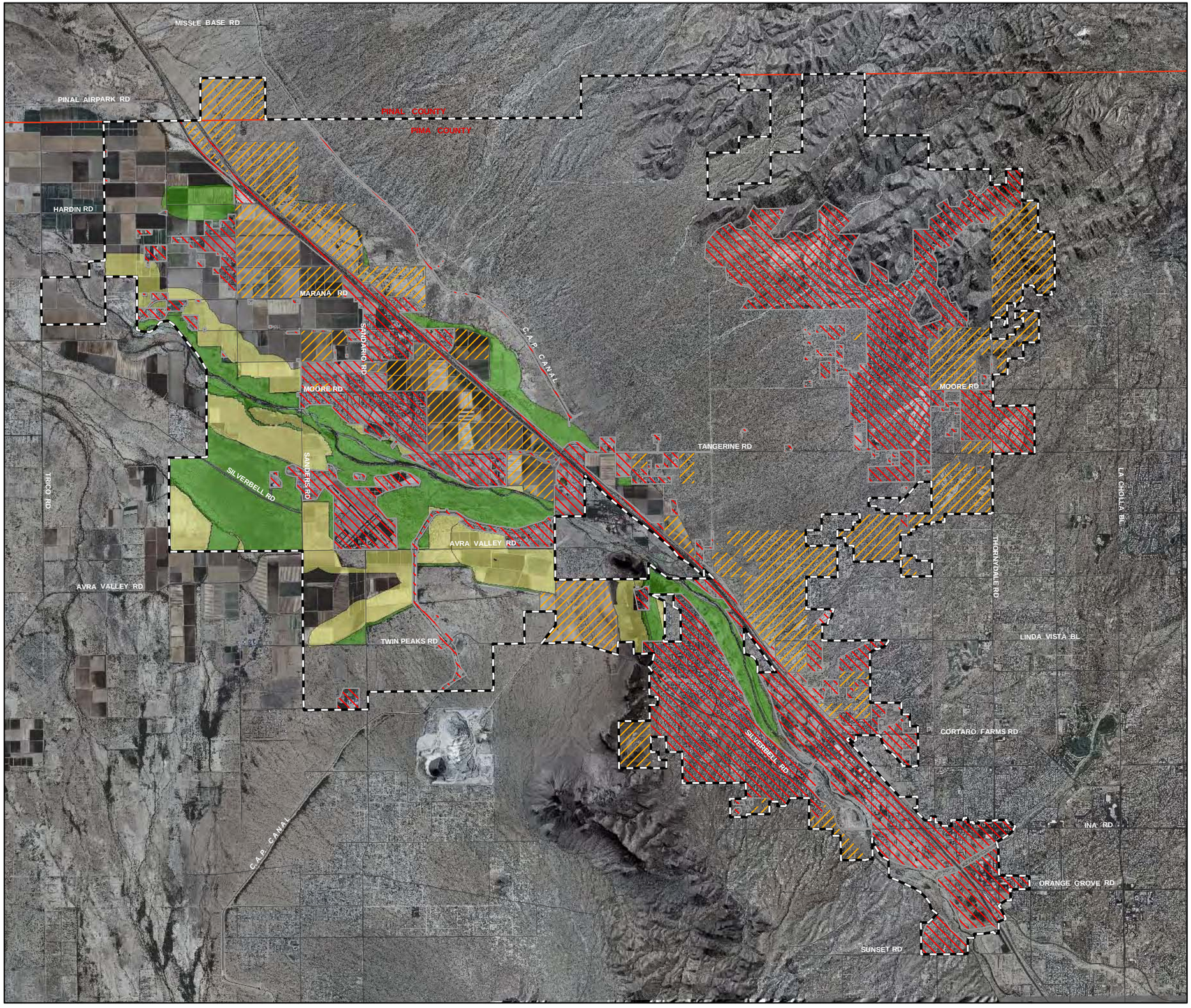





# Figure 4.6
# Burrowing Owl Potential Habitat and Development

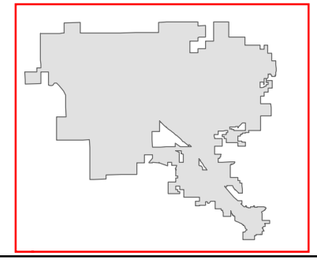
- Forage - 4,608 Acres
- Nest & Forage - 5,858 Acres
- Entitled Land
- Developed Land
- HCP Permit Area
  Marana Town Limits

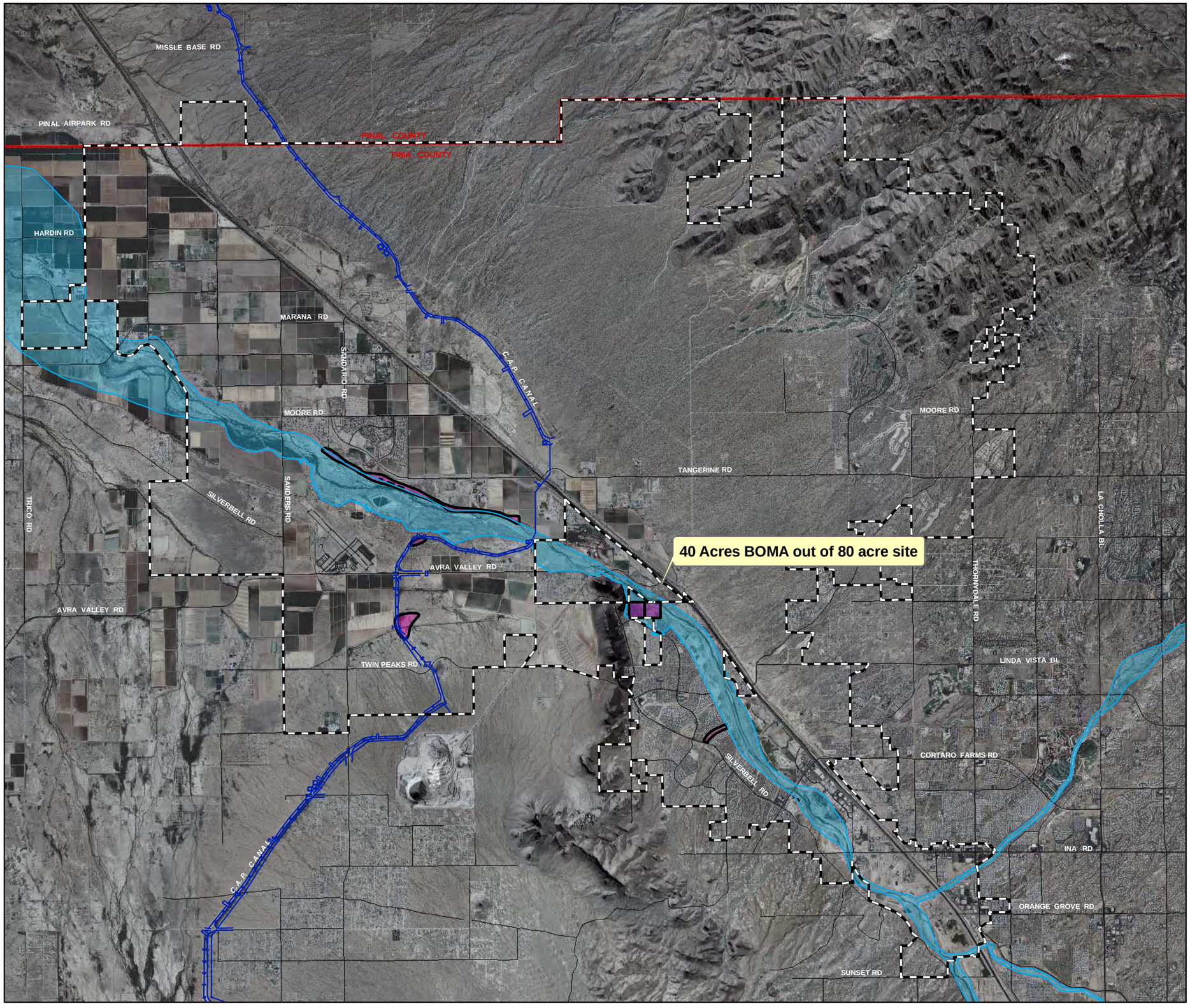
N
W E
S

0 0.5 1 2 3 Miles

Background Imagery:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP\
final_figs\November_08\Figure 4.6
Burrowing Owl Potential Habitat and
Development.mxd
© 11-07 Town of Marana






# Figure 4.7
# Burrowing Owl Management Areas

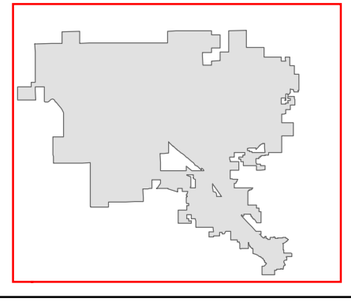
- Potential Burrowing Owl Management Area
- Floodway
- HCP Permit Area
  Marana Town Limits
- County Line

Background Imagery:
July 2007 USDA NAIP
Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\
November_08\Figure 4.7 Burrowing Owl
Management Areas.mxd
© 11-07 Town of Marana

N
W E
S

0 0.5 1 2 3 4 Miles



# Figure 4.8
# Formerly Proposed Pygmy-owl Critical Habitat in Marana

- Pygmy Owl Critical Habitat
- Pygmy Owl Critical Habitat Unit 2
- Pygmy Owl Critical Habitat Unit 3
- Existing Development
- HCP Permit Area
  Marana Town Limits
- Washes
- County Line

N
W E
S

0 0.5 1 2 3 Miles

Background Imagery:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP\final_figs\November_08\Figure 4.8 Formerly Proposed Pygmy-owl Critical Habitat in Marana.mxd

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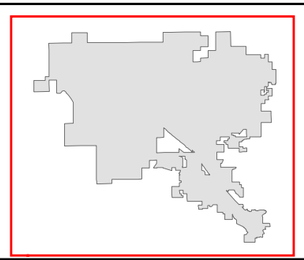
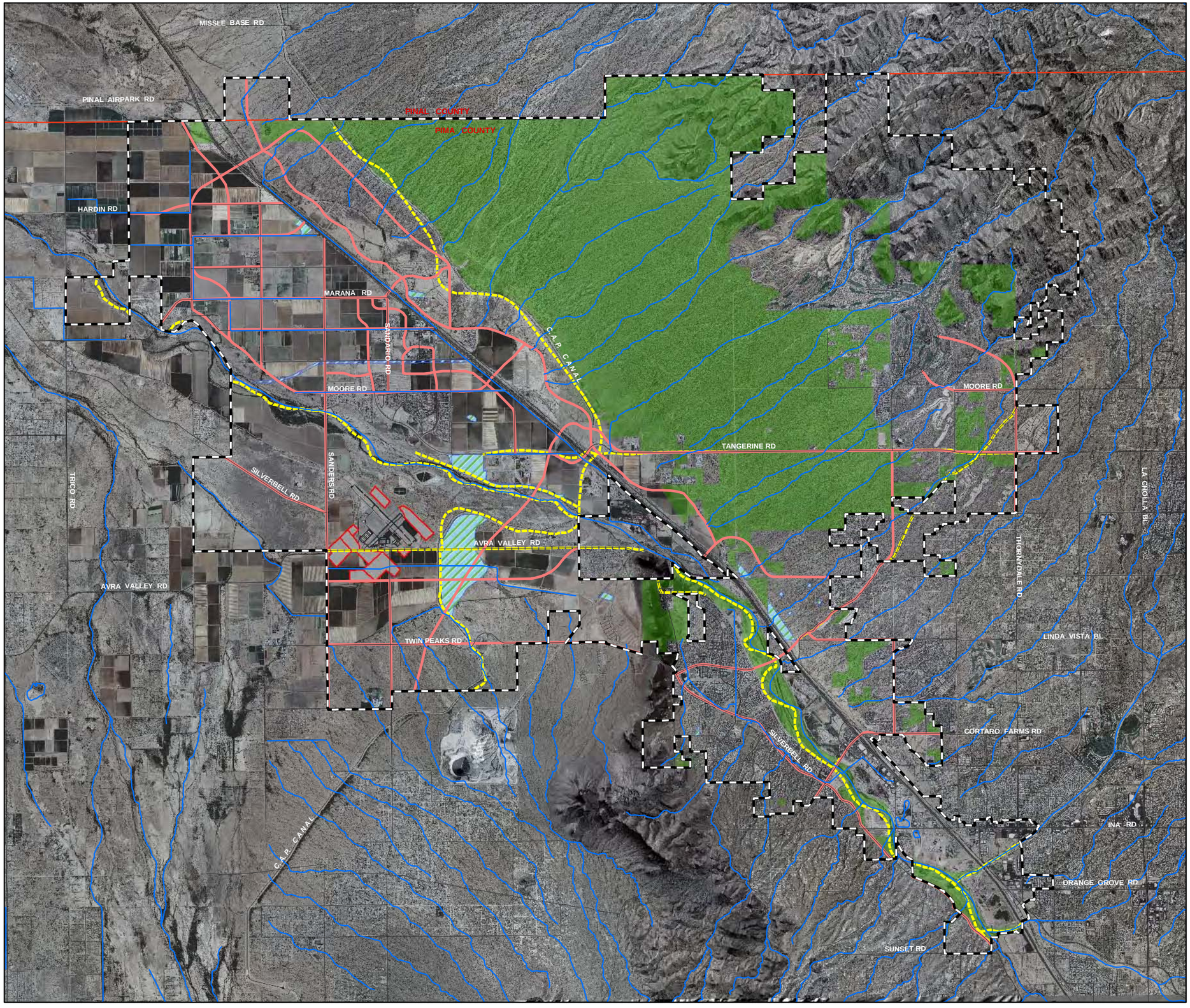


MISSLE BASE RD
PINAL AIRPARK RD
PINAL COUNTY
PIMA COUNTY
HARDIN RD
MARANA RD
SANDARIO RD
C.A.P. CANAL
MOORE RD
TANGERINE RD
TRICO RD
SILVERBELL RD
SANDERS RD
AVRA VALLEY RD
TWIN PEAKS RD
THORNYDALE RD
LA CHOLLA BL
LINDA VISTA BL
CORTARO FARMS RD
INA RD
ORANGE GROVE RD
SUNSET RD

# Figure 4.9 Cactus Ferruginous Pygmy-owl Potential Habitat and CIP




Cactus Ferruginous Pygmy-owl Potential Habitat - 25,693 Acres

Proposed Trails
96 Acres Impact

Proposed Parks
1 Acres Impact

Barnett Channel
0 Acres Impact

Airport Development
0 Acres Impact

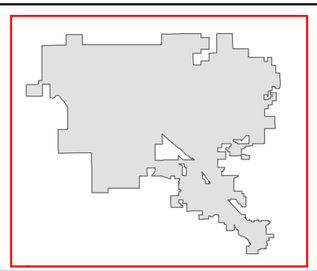
Proposed Streets
360 Acres Impact

Washes

HCP Permit Area
Marana Town Limits

N
W E
S

0 0.5 1 2 3 Miles

Background Imagery:
July 2007 USDA NAIP Aerial Photography

File: U:\PW_Environmental\HCP
\final_figs\November_08\Figure 4.9
Cactus Ferruginous Pygmy-owl Potential
Habitat and CIP.mxd
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