



Existing 230kV lattice tower
(Source: SDG&E May 20, 2003)

Existing 69/138kV lattice tower to be modified to 230 kV
(Source: SDG&E May 20, 2003)

Proposed 69/138kV structure
(Source: SDG&E May 8, 2003)

Impact areas around towers/structures

- 150' x 150' work area around existing towers to be modified to or replaced with 230 kV plus 100' x 100' work area around proposed 69/138kV structures
- SDG&E access road
- Survey area

Vegetation communities
(Source: Essex, 2002; modified by Recon, May 2003)

- Coastal sage scrub
- Southern cottonwood-willow riparian forest
- Developed

Sensitive species locations
(Source: Essex, October 2002)

- Coastal California gnatcatcher
- San Diego horned lizard
- Southern California rufous-crowned sparrow
- Mountain lion
- Unidentified raptor nest
- (Source: Recon, May 2003)
- Southern California rufous-crowned sparrow

FIGURE 4-20
Impacts to Existing Biological Resources
Map 20

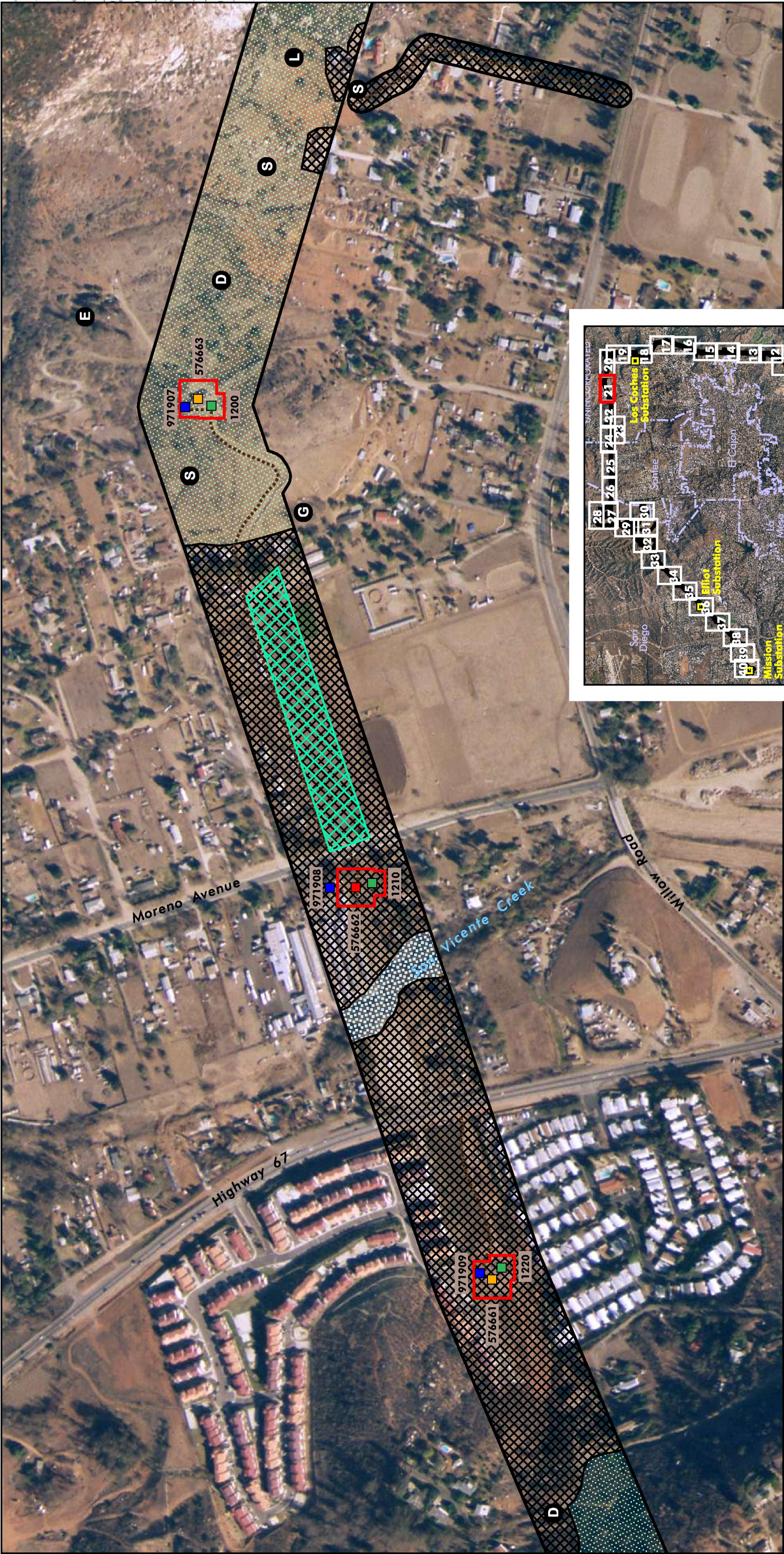


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- Existing 230kV lattice tower
(Source: SDG&E May 20, 2003)

Existing 69/138kV lattice tower
to be modified to 230 kV
(Source: SDG&E May 20, 2003)

Existing 69/138kV lattice tower
to be replaced with 230 kV structure
(Source: SDG&E May 20, 2003)

Proposed 69/138kV structure
(Source: SDG&E May 8, 2003)

Impact areas around towers/structures
- 150' x 150' work area around existing towers to be modified to or replaced with 230 kV plus 100' x 100' work area around proposed 69/138kV structures

Stringing/staging site
(Source: SDG&E May 20, 2003)

SDG&E access road

Survey area

Vegetation communities
(Source: Essex, 2002; modified by Recon, May 2003)

Coastal sage scrub

Southern willow scrub

Developed

Sensitive species locations
(Source: Essex, October 2002)

San Diego desert woodrat

Golden eagle

Coastal California gnatcatcher

San Diego horned lizard

Southern California rufous-crowned sparrow
-
- Map Locator
- FIGURE 4-21
Impacts to Existing
Biological Resources
- Map 21
SDG&E Miguel - Mission 230kV #2
- SDGE A Sempra Energy utility*

Map Locator

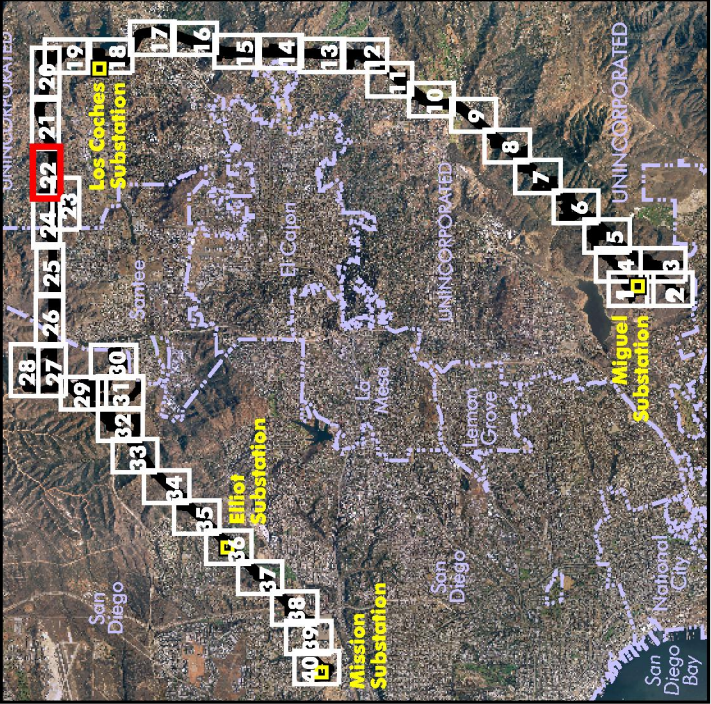


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- Existing 230kV lattice tower (Source: SDG&E May 20, 2003)
- Existing 69/138kV lattice tower to be modified to 230 kV (Source: SDG&E May 20, 2003)
- Existing 69/138kV lattice tower to be replaced with 230 kV structure (Source: SDG&E May 20, 2003)
- Proposed 69/138kV structure (Source: SDG&E May 8, 2003)
- Impact areas around towers/structures
 - 150' x 150' work area around existing towers to be modified to or replaced with 230 kV plus 100' x 100' work area around proposed 69/138kV structures
- Stringing/snub site (Source: SDG&E May 8, 2003)
- SDG&E access road
- Survey area

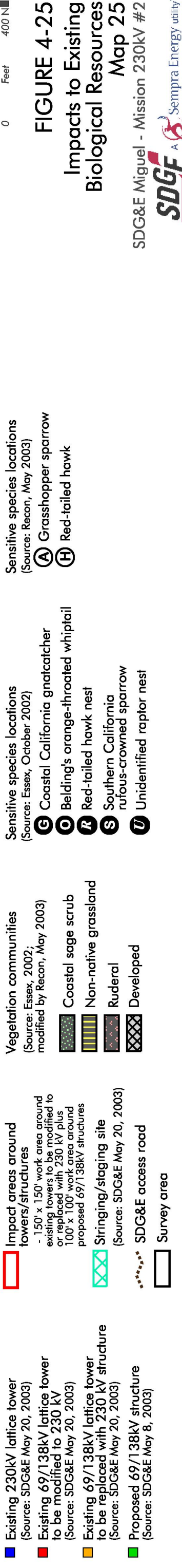
- Vegetation communities (Source: Essex, 2002; modified by Recon, May 2003)
 - Coastal sage scrub
 - Developed

- Sensitive species locations (Source: Essex, October 2002)
 - Cooper's hawk
 - San Diego desert woodrat



FIGURE 4-22
Impacts to Existing
Biological Resources
Map 22

SDG&E Miguel - Mission 230kV #2



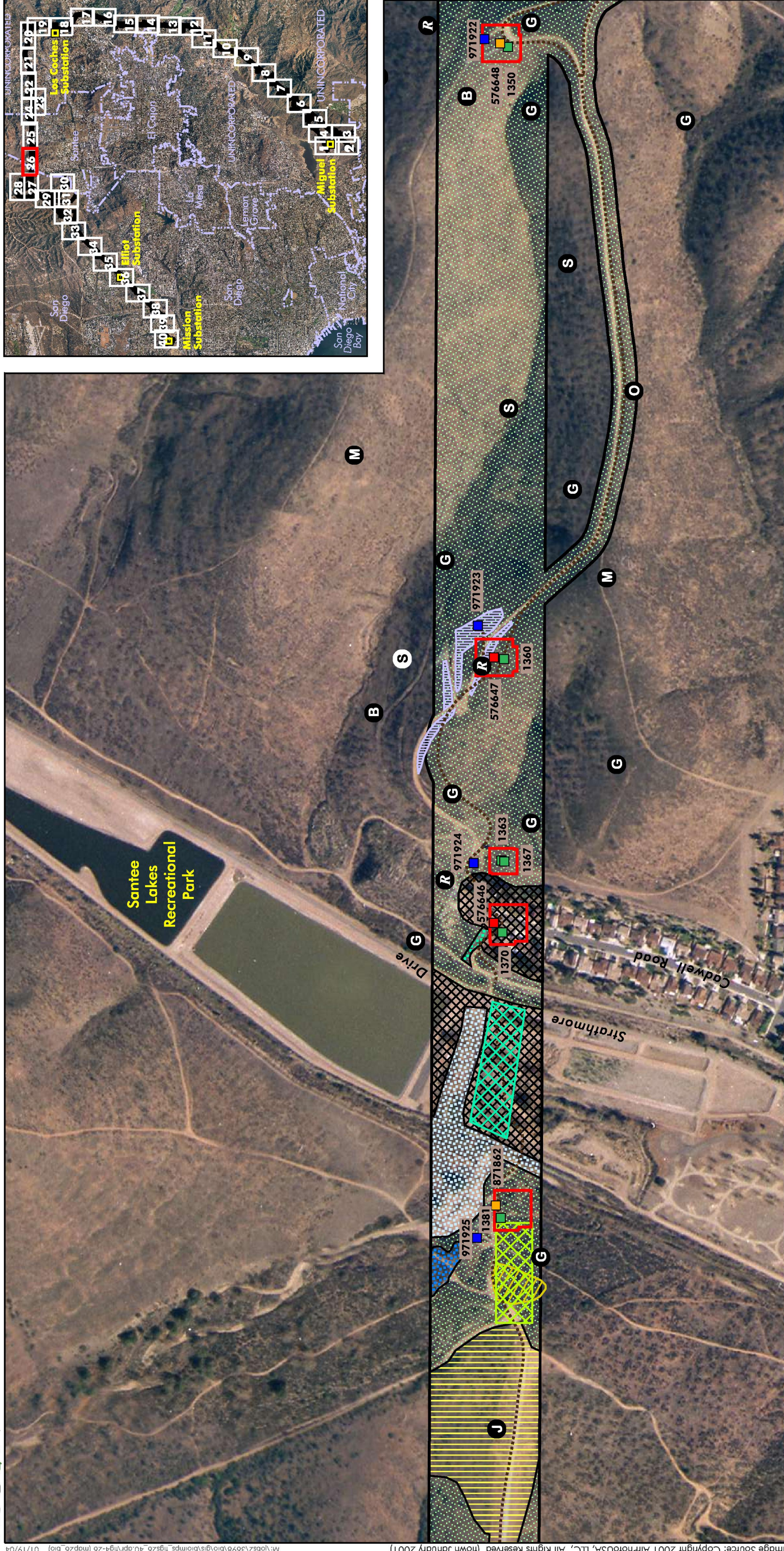
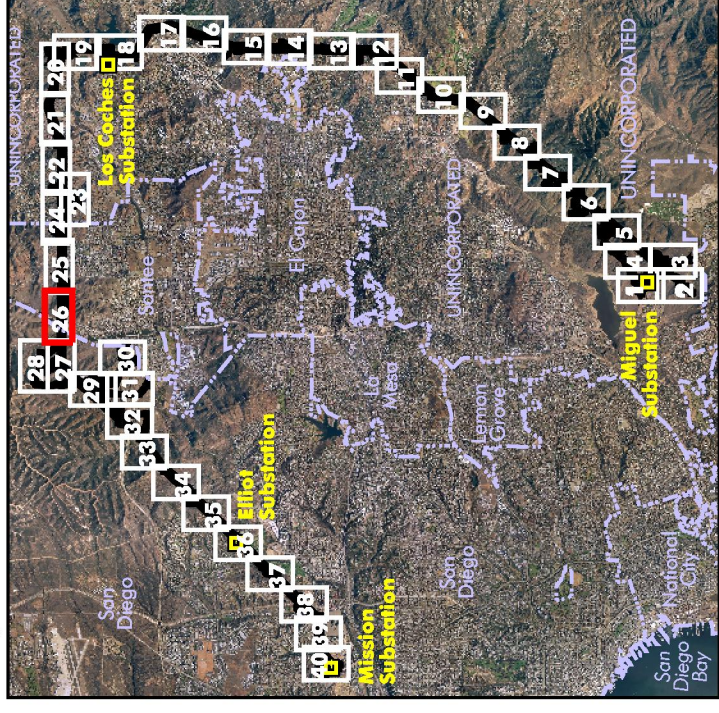


FIGURE 4-26
Impacts to Existing
Biological Resources
Map 26

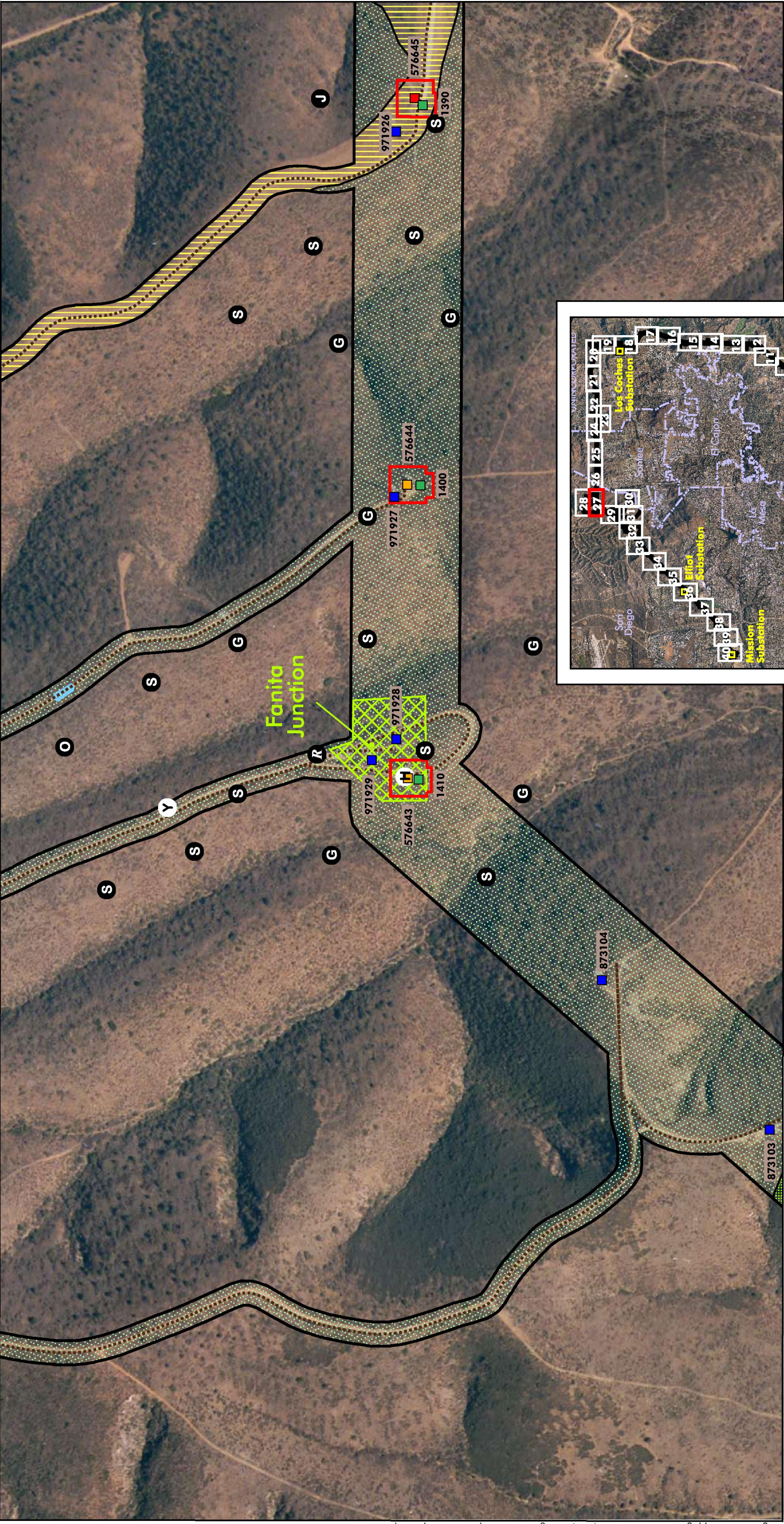


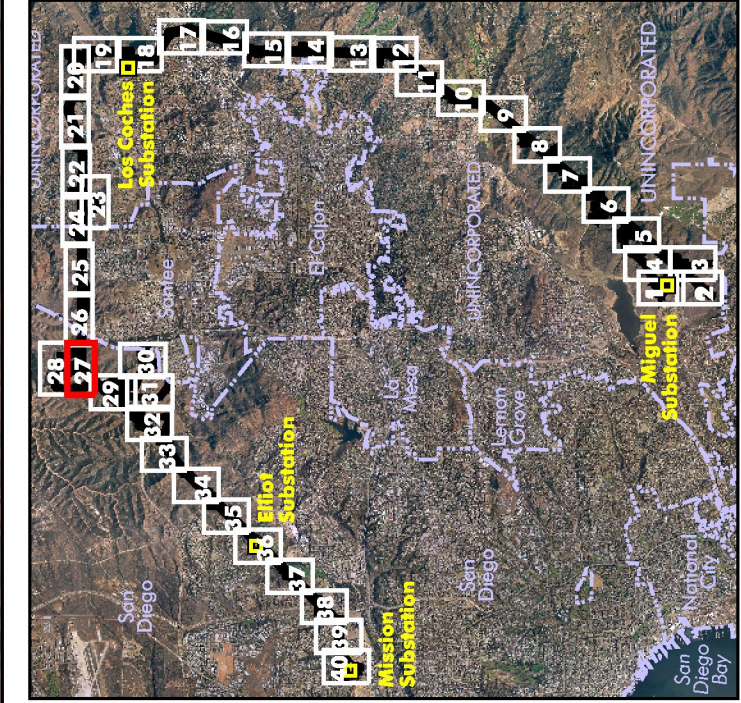
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- Existing 230kV lattice tower (Source: SDG&E May 20, 2003)
- Existing 69/138kV lattice tower to be modified to 230kV (Source: SDG&E May 20, 2003)
- Existing 69/138kV lattice tower to be replaced with 230kV (Source: SDG&E May 20, 2003)
- Proposed 69/138kV structure (Source: SDG&E May 8, 2003)

- Impact area around towers/structures
 - 150' x 150' work area around existing towers to be modified to or replaced with 230 kV plus 100' x 100' work area around proposed 69/138kV structures
- Stringing/snub site (Source: SDG&E May 8, 2003)
- SDG&E access road
- Survey area

- Vegetation communities (Source: Essex, 2002; modified by Recon, May 2003)
 - Coastal sage scrub
 - Chamise chaparral
 - Non-native grassland
- Vernal pool/depression (Source: Recon, May 2003)

- Sensitive species locations (Source: Essex, October 2002)
 - J Black-tailed jackrabbit
 - G Coastal California gnatcatcher
 - O Belding's orange-throated whiptail
 - S Southern California rufous-crowned sparrow
 - R Red-tailed hawk nest (Source: Recon, May 2003)
 - Y Variegated dudleya
- H Red-tailed hawk



Map Locator



FIGURE 4-27
Impacts to Existing
Biological Resources
Map 27
SDG&E Miguel - Mission 230kV #2



Map Locator

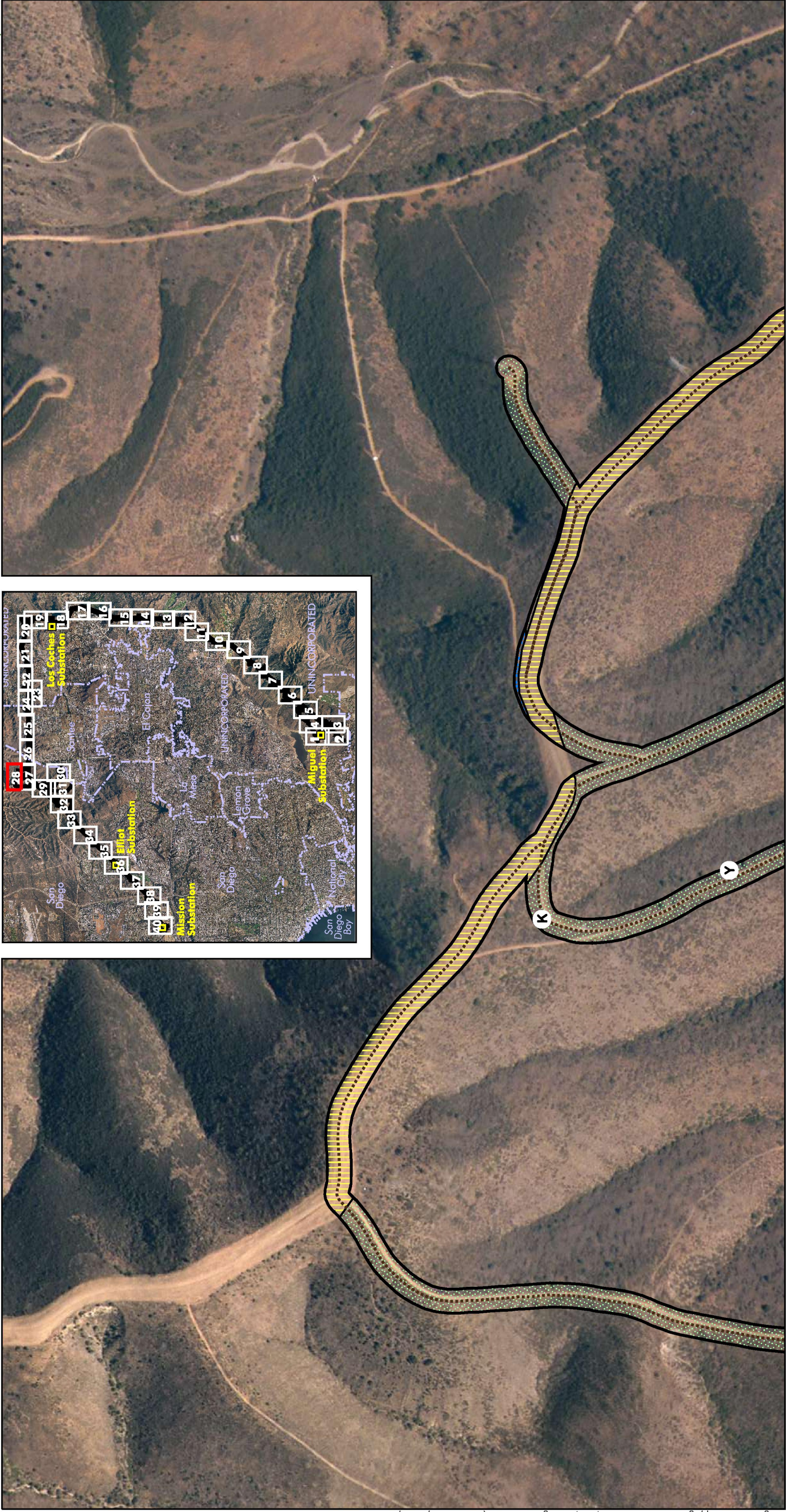
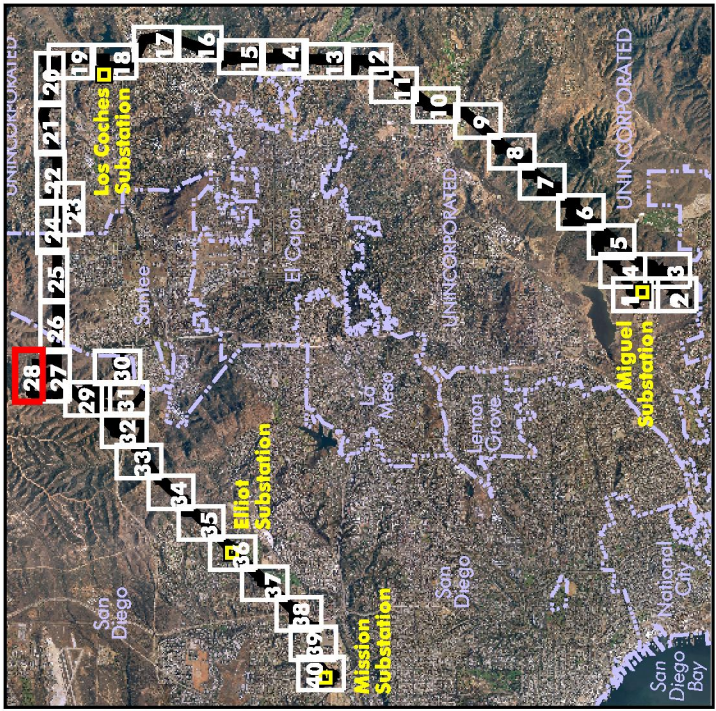


FIGURE 4-28
Impacts to Existing
Biological Resources
Map 28
SDG&E Miguel - Mission 230kV #2

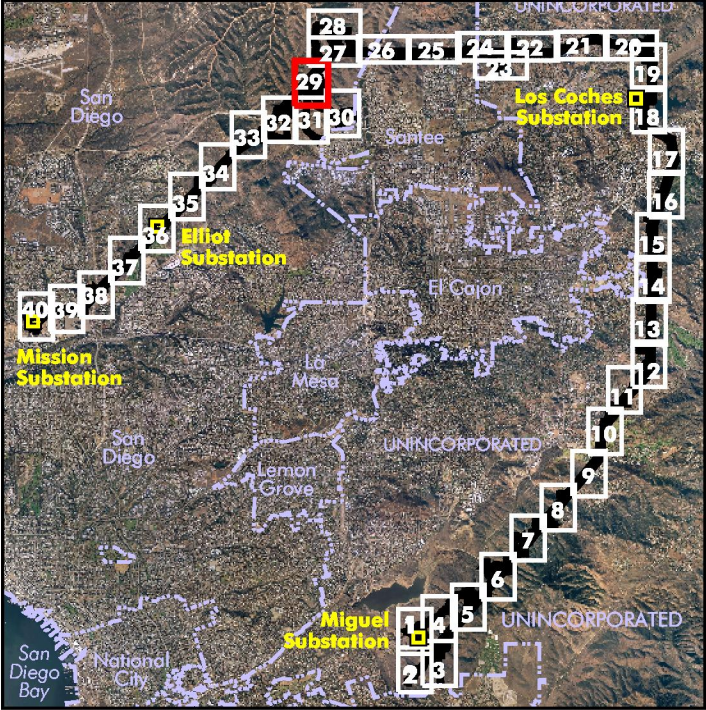


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- Existing 230kV structure
(Source: SDG&E May 20, 2003)
- SDG&E access road
- Survey area

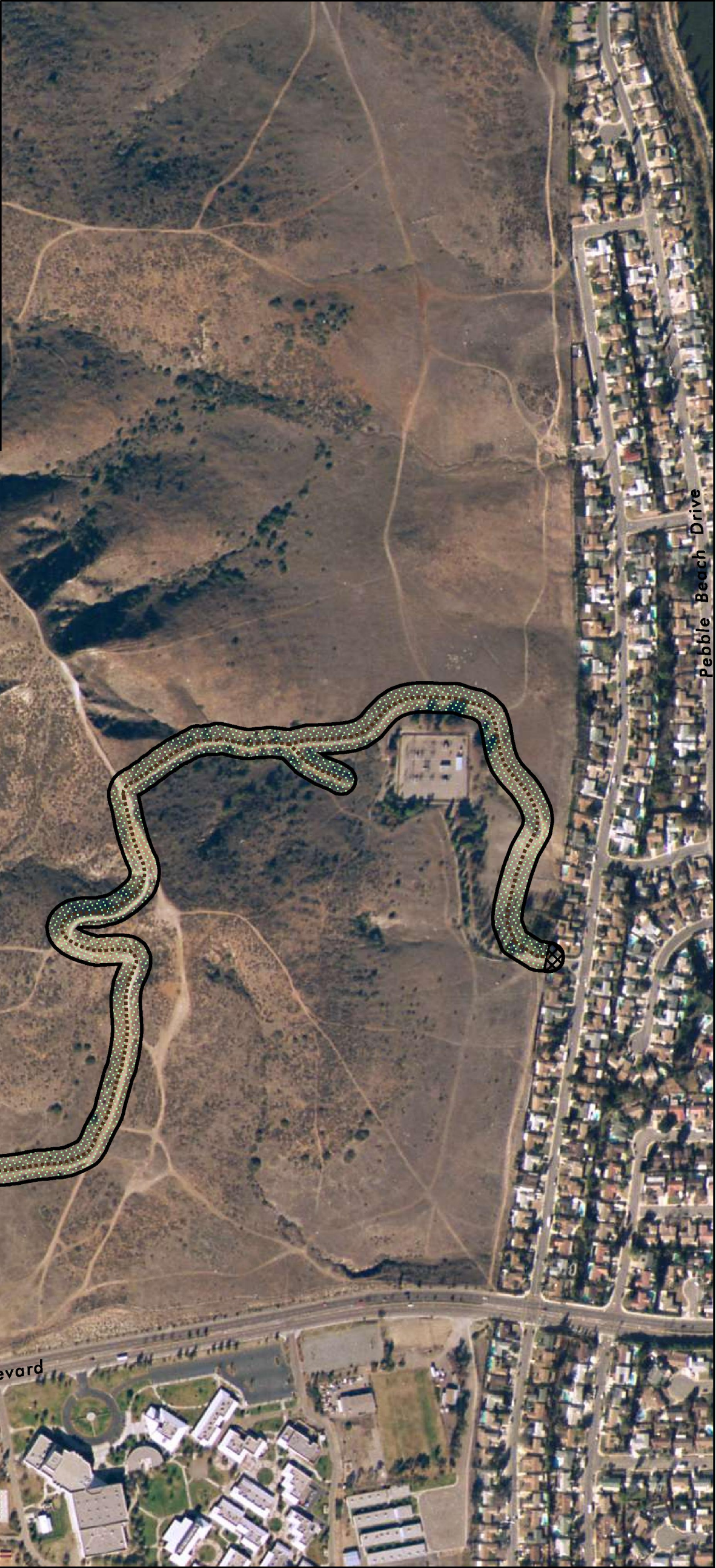
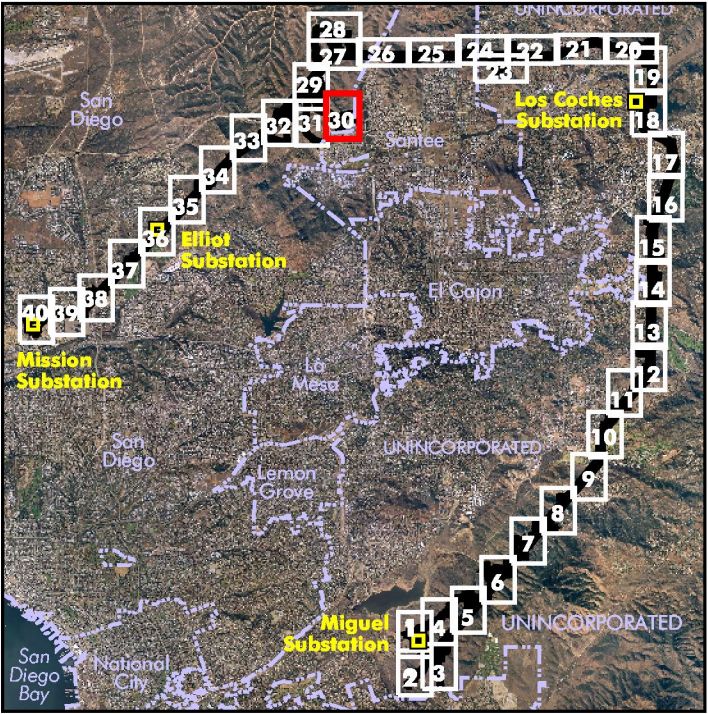
- Vegetation communities**
(Source: Essex, 2002;
modified by Recon, May 2003)
- Coastal sage scrub
 - Chamise chaparral
 - Southern mixed chaparral
 - Developed

- Sensitive species locations**
(Source: Essex, October 2002)
- G Coastal California gnatcatcher
 - H Northern harrier
 - R Red-tailed hawk nest
 - S Southern California rufous-crowned sparrow
 - B Coast barrel cactus
 - M Southern mule deer

0 Feet 400 N

FIGURE 4-29
Impacts to Existing
Biological Resources
Map 29

SDG&E Miguel - Mission 230kV #2



- SDG&E access road
- Survey area
- Vegetation communities
(Source: Essex, 2002;
modified by Recon, May 2003)
- Coastal sage scrub
- Developed

0 Feet 400 N

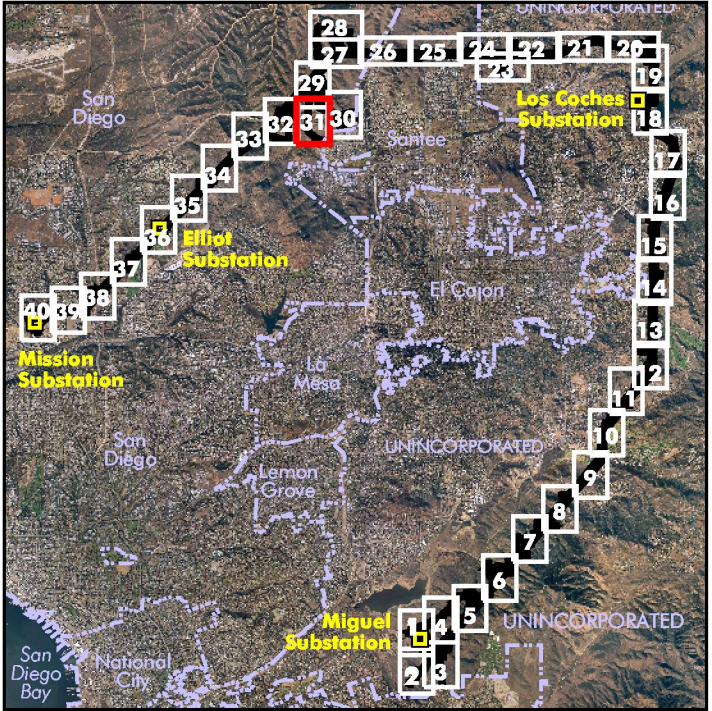
FIGURE 4-30
Impacts to Existing
Biological Resources
Map 30

SDG&E Miguel - Mission 230kV #2



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Map Locator



SDG&E access road
Survey area

Vegetation communities
(Source: Essex, 2002;
modified by Recon, May 2003)
Coastal sage scrub
Developed

Sensitive species locations
(Source: Essex, October 2002)
Coastal California gnatcatcher
Southern California
rufous-crowned sparrow
Coast barrel cactus



FIGURE 4-31
Impacts to Existing
Biological Resources
Map 31

SDG&E Miguel - Mission 230kV #2

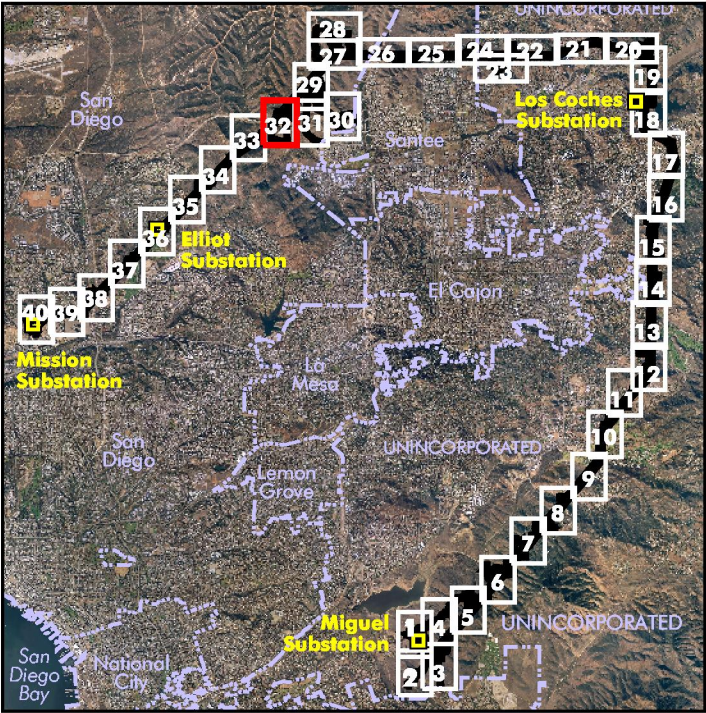


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- Existing 230kV structure
(Source: SDG&E May 20, 2003)
- Stringing/snub site
(Source: SDG&E May 8, 2003)
- SDG&E access road
- Survey area

- Vegetation communities**
(Source: Essex, 2002; modified by Recon, May 2003)
- Coastal sage scrub
 - Chamise chaparral
 - Non-native grassland
 - Southern cottonwood-willow riparian forest
 - Developed

- Sensitive species locations**
(Source: Essex, October 2002)
- G Coastal California gnatcatcher
 - R Red-tailed hawk nest
 - S Southern California rufous-crowned sparrow
 - M Southern mule deer

- Sensitive species populations**
(Source: Recon, May 2003)
- San Diego goldenstar

0 Feet 400 N

FIGURE 4-32
Impacts to Existing
Biological Resources
Map 32

SDG&E Miguel - Mission 230kV #2

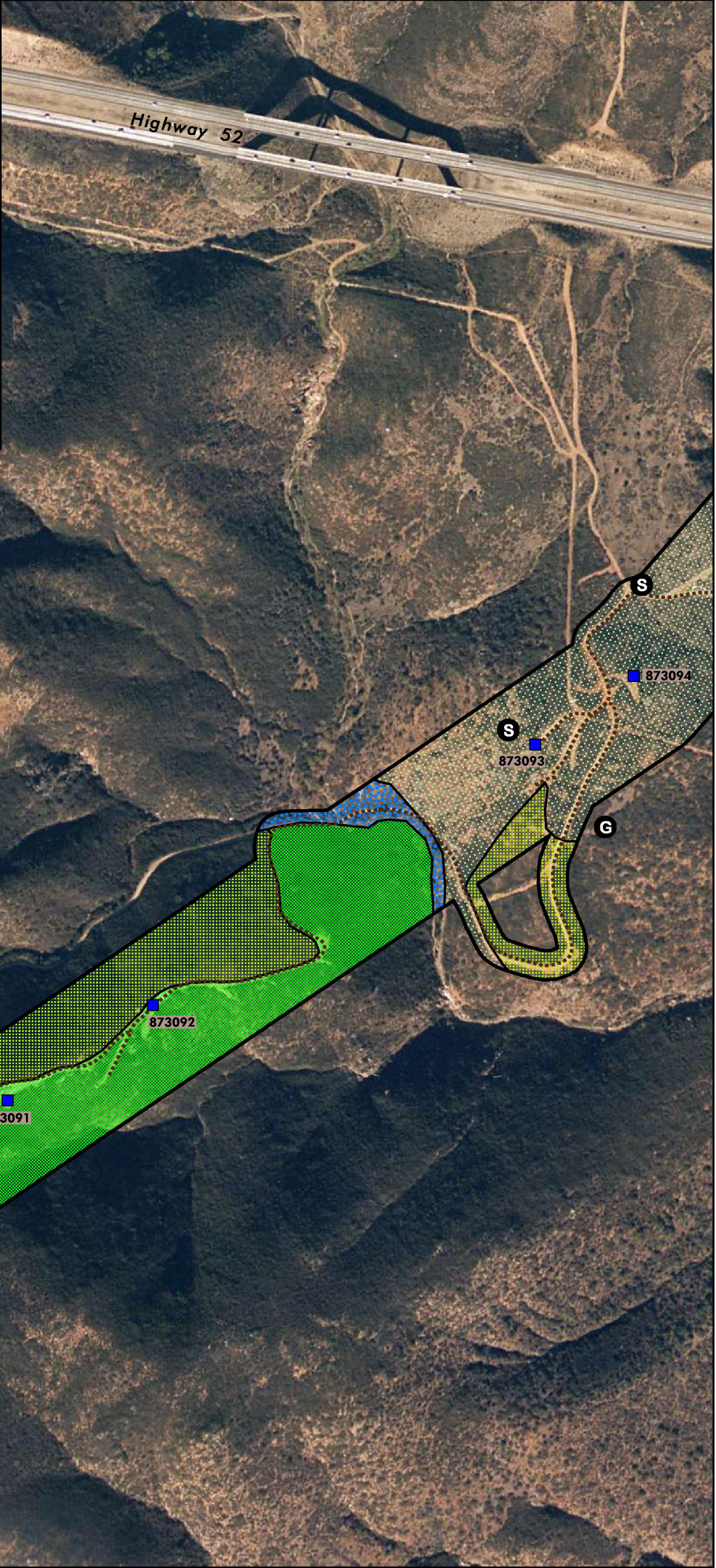
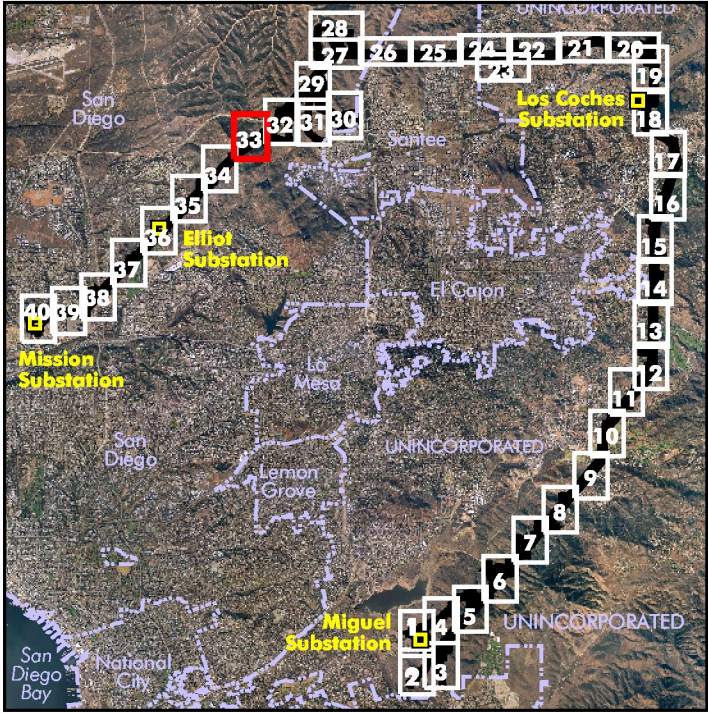


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- Existing 230kV structure
(Source: SDG&E May 20, 2003)
- SDG&E access road
- Survey area

- Vegetation communities**
(Source: Essex, 2002;
modified by Recon, May 2003)
- Coastal sage scrub
 - Chamise chaparral
 - Southern mixed chaparral
 - Southern cottonwood-willow riparian forest

- Sensitive species locations**
(Source: Essex, October 2002)
- G Coastal California gnatcatcher
 - O Belding's orange-throated whiptail
 - S Southern California rufous-crowned sparrow



FIGURE 4-33
Impacts to Existing
Biological Resources
Map 33

SDG&E Miguel - Mission 230kV #2

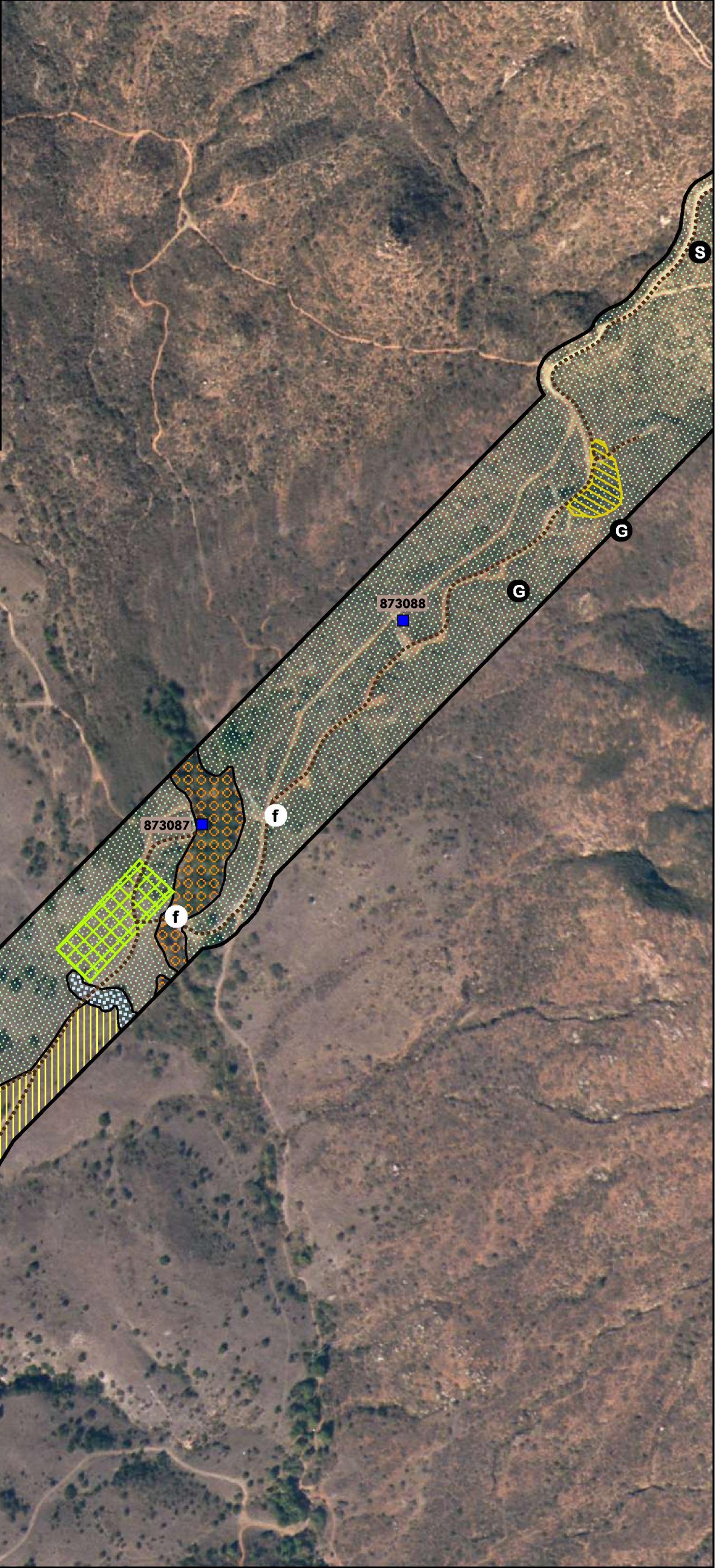
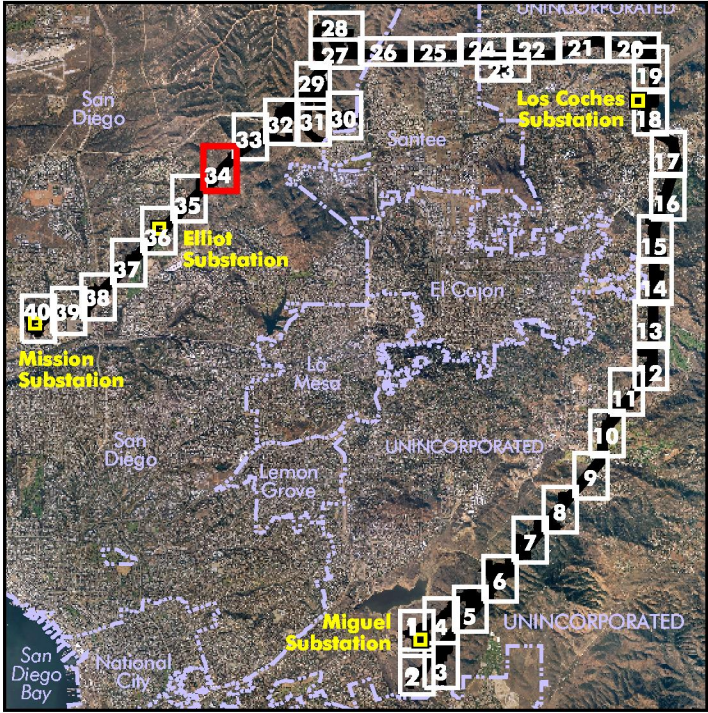


Image Source: Copyright 2001 AirPhotoUSA, LLC, All Rights Reserved (flown January 2001)

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- Existing 230kV structure
(Source: SDG&E May 20, 2003)
- Stringing/snub site
(Source: SDG&E May 8, 2003)
- SDG&E access road
- Survey area

- Vegetation communities**
(Source: Essex, 2002; modified by Recon, May 2003)
- Coastal sage scrub
 - Non-native grassland
 - Southern willow scrub
 - Coast live oak woodland

- Sensitive species suitable habitat**
(Source: Recon, May 2003)
- Hermes copper butterfly

- Sensitive species locations**
(Source: Essex, October 2002)
- Coastal California gnatcatcher
 - Southern California rufous-crowned sparrow
 - Coast barrel cactus
- (Source: Recon, May 2003)
- Southern California rufous-crowned sparrow
 - Hermes copper butterfly

FIGURE 4-34
Impacts to Existing Biological Resources
Map 34
SDG&E Miguel - Mission 230kV #2

SDGE A **Sempra Energy** utility

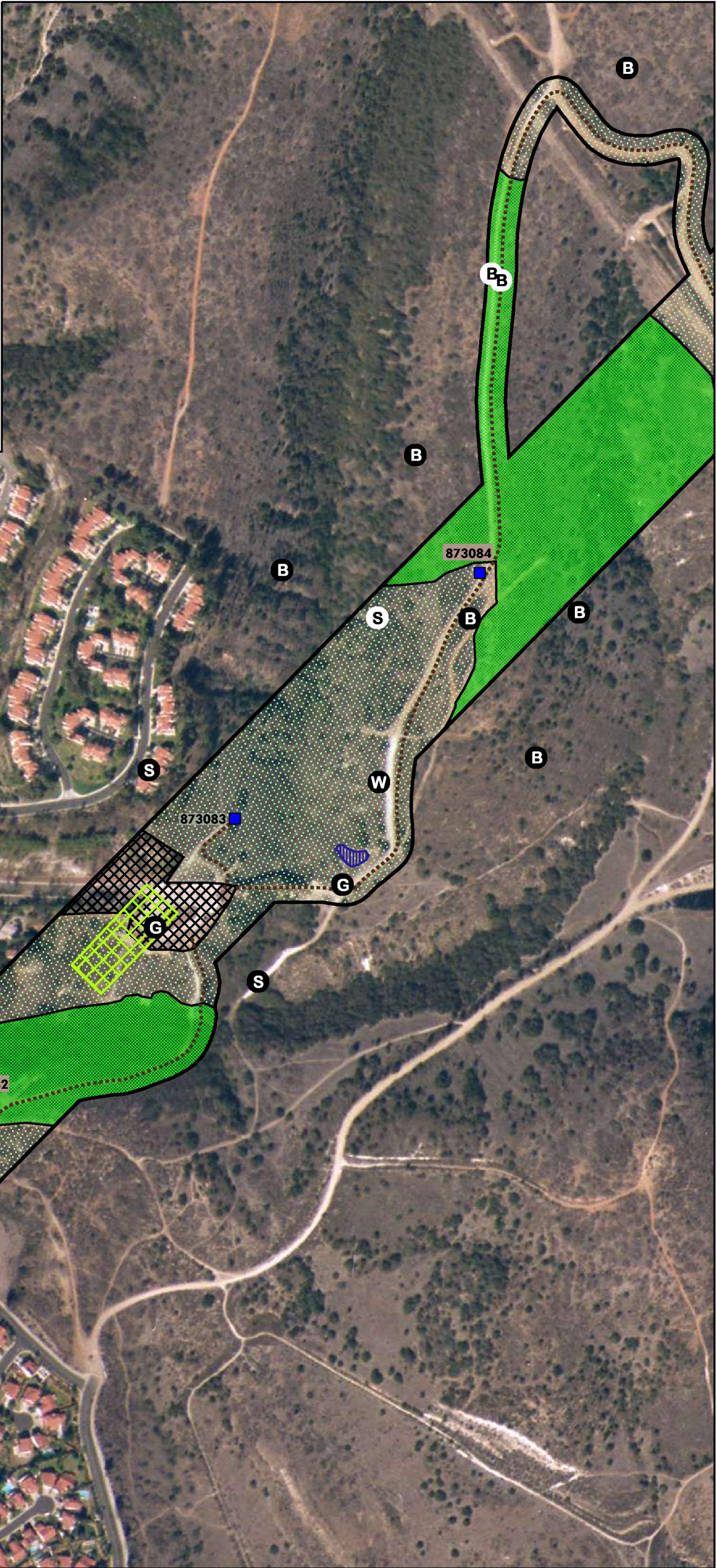
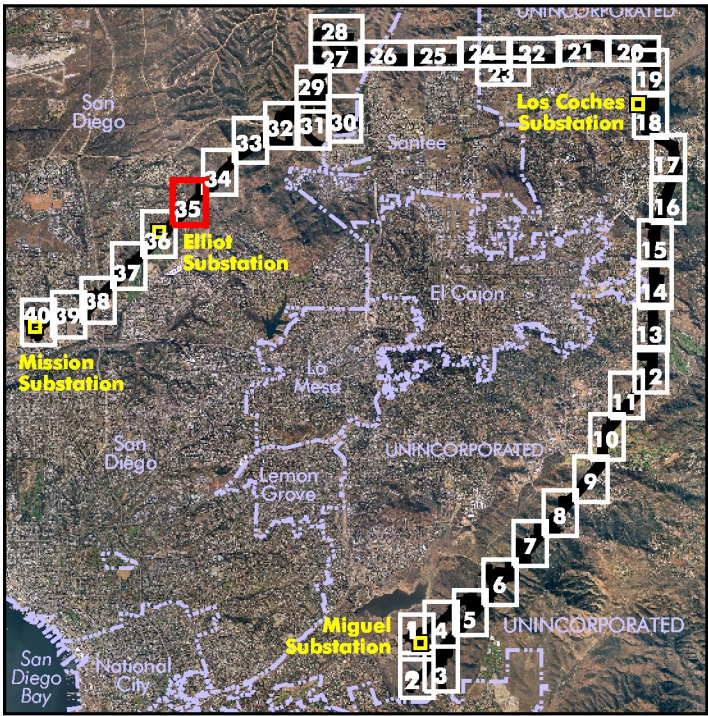


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- Existing 230kV structure (Source: SDG&E May 20, 2003)
- Stringing/snub site (Source: SDG&E May 8, 2003)
- SDG&E access road
- Survey area
- Vegetation communities** (Source: Essex, 2002; modified by Recon, May 2003)
 - Coastal sage scrub
 - Southern mixed chaparral
 - Developed
 - Vernal pool/depression** (Source: Recon, May 2003)
- Sensitive species populations** (Source: Recon, May 2003)
 - San Diego thornmint

- Sensitive species locations** (Source: Essex, October 2002)
 - G Coastal California gnatcatcher
 - S Southern California rufous-crowned sparrow
 - B Coast barrel cactus
 - W Coastal cactus wren

- Sensitive species locations** (Source: Recon, May 2003)
 - S Southern California rufous-crowned sparrow
 - Q Western spadefoot toad
 - F San Diego fairy shrimp
 - B Coast barrel cactus

0 Feet 400 N

FIGURE 4-35
Impacts to Existing
Biological Resources
Map 35

SDG&E Miguel - Mission 230kV #2

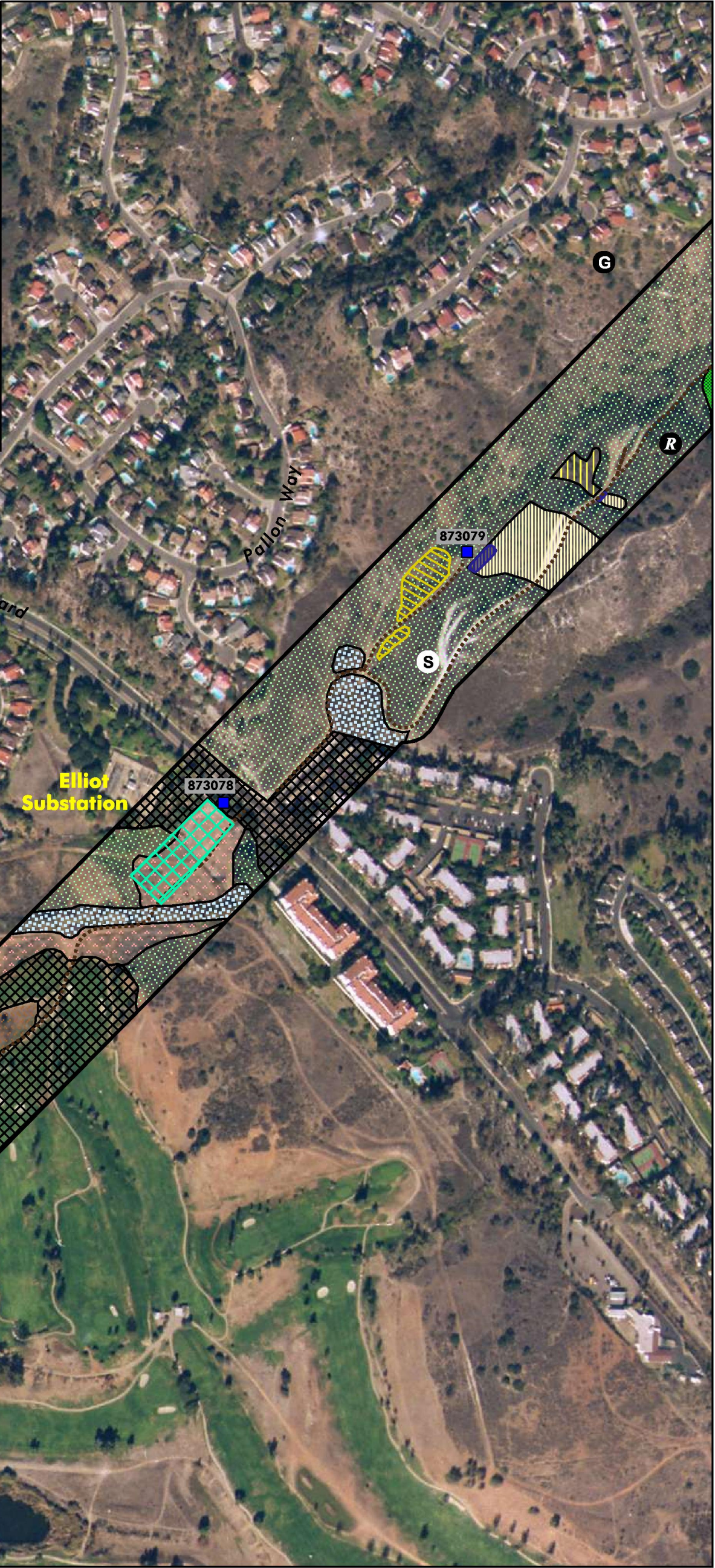
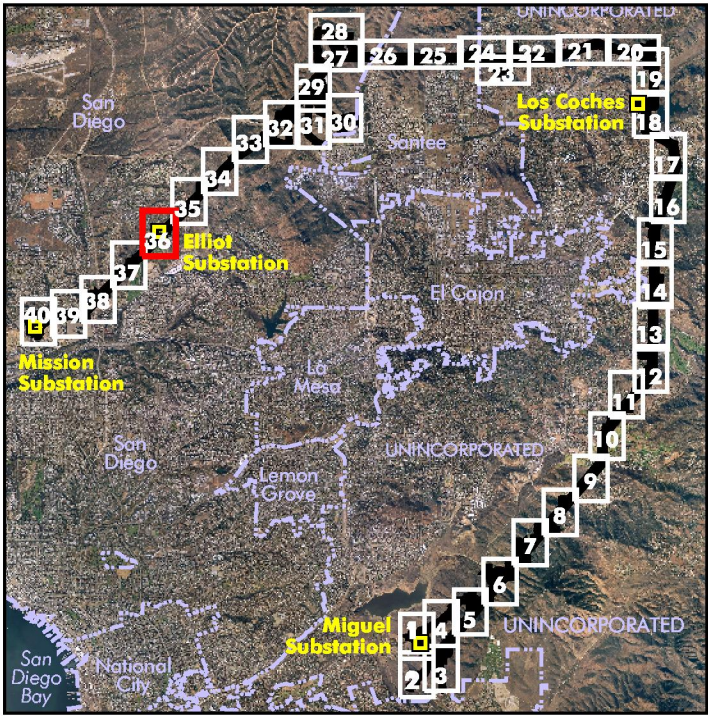


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- Existing 230kV structure (Source: SDG&E May 20, 2003)
- Stringing/staging site (Source: SDG&E May 8, 2003)
- SDG&E access road
- Survey area

- Vegetation communities**
(Source: Essex, 2002; modified by Recon, May 2003)
- Coastal sage scrub
 - Southern mixed chaparral
 - Native grassland
 - Non-native grassland
 - Southern willow scrub
 - Eucalyptus woodland
 - Disturbed
 - Ruderal
 - Developed

- Sensitive species suitable habitat**
(Source: Recon, May 2003)
- Hermes copper butterfly
- Sensitive species populations**
(Source: Recon, May 2003)
- San Diego thornint

- Sensitive species locations**
(Source: Essex, October 2002)
- Coastal California gnatcatcher
 - Red-tailed hawk nest
 - Southern California rufous-crowned sparrow

0 Feet 400 N

FIGURE 4-36
Impacts to Existing
Biological Resources
Map 36

SDG&E Miguel - Mission 230kV #2

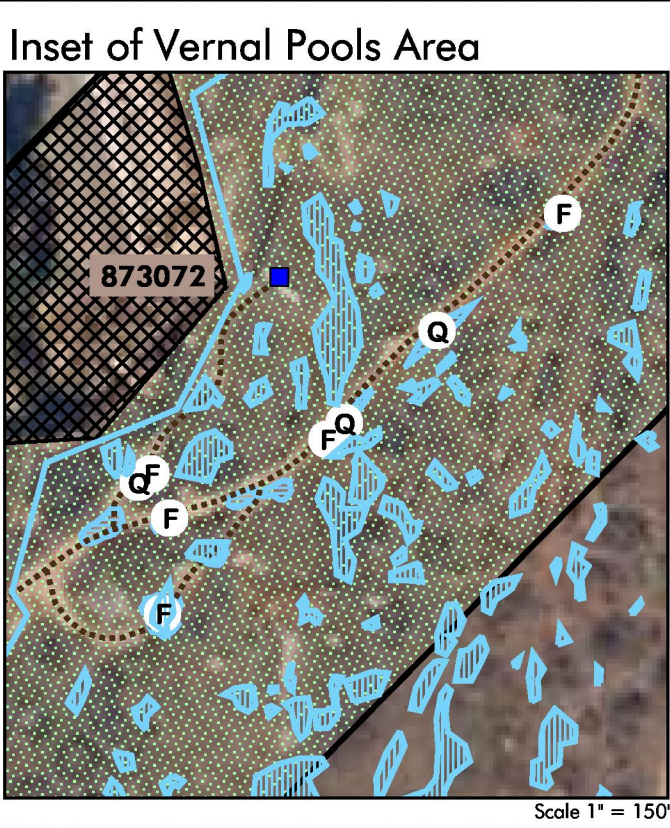
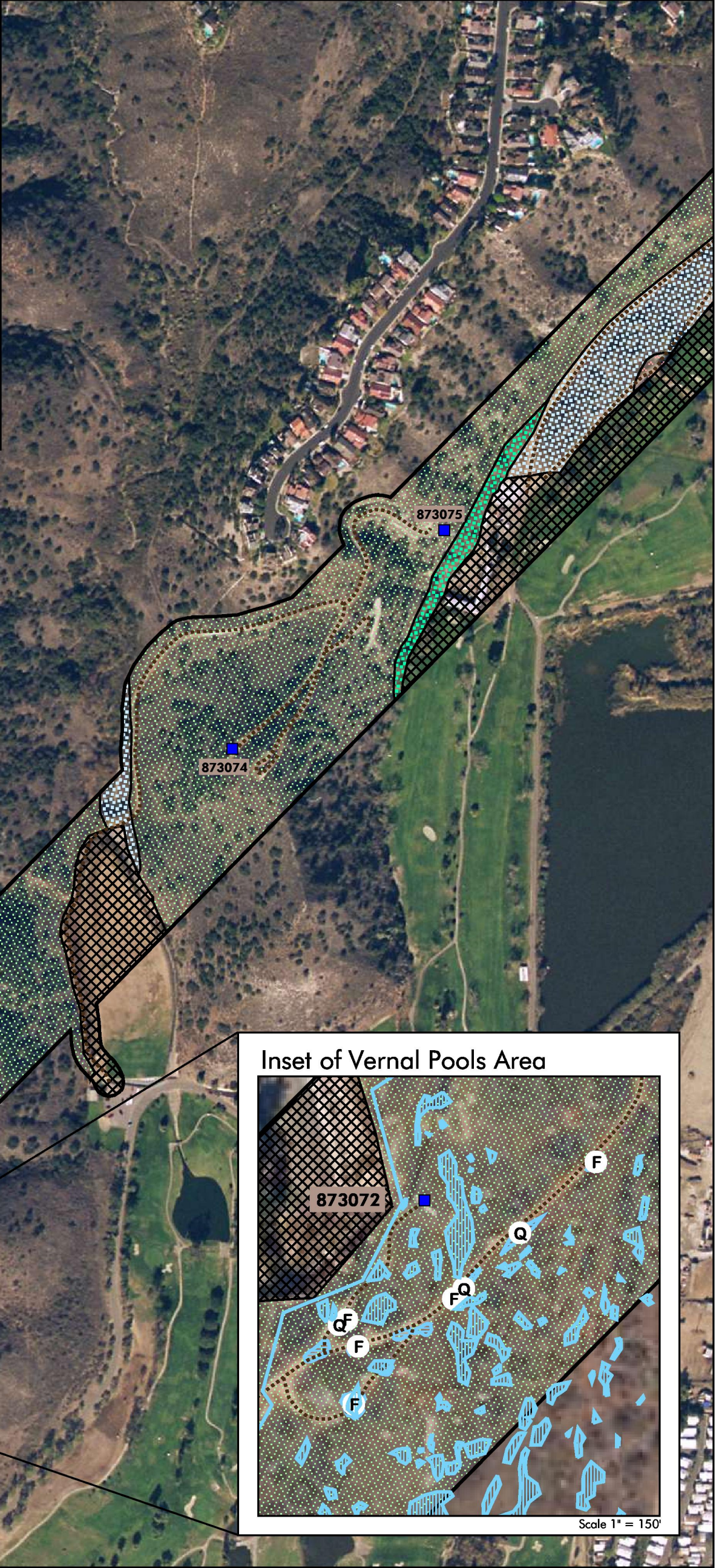
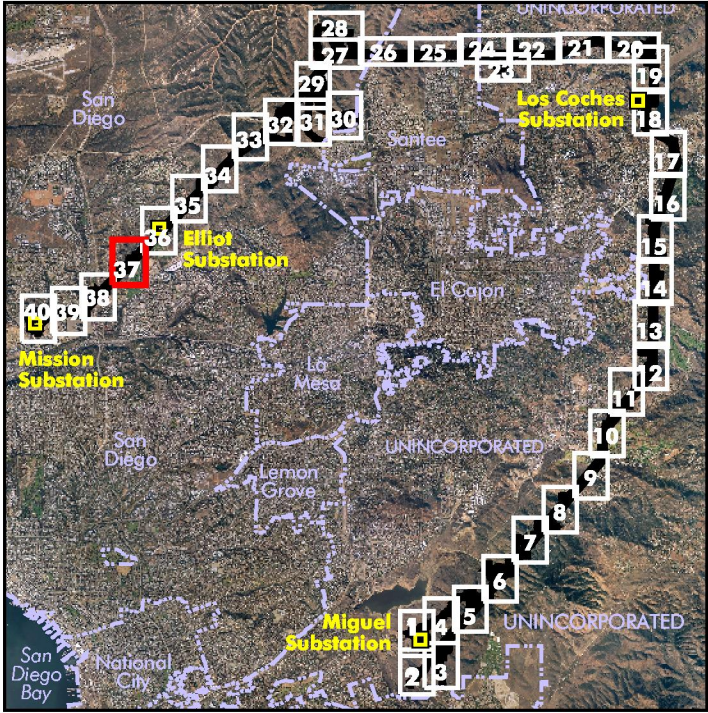


Image Source: Copyright 2001 AirPhotoUSA, LLC, All Rights Reserved (flown January 2001)

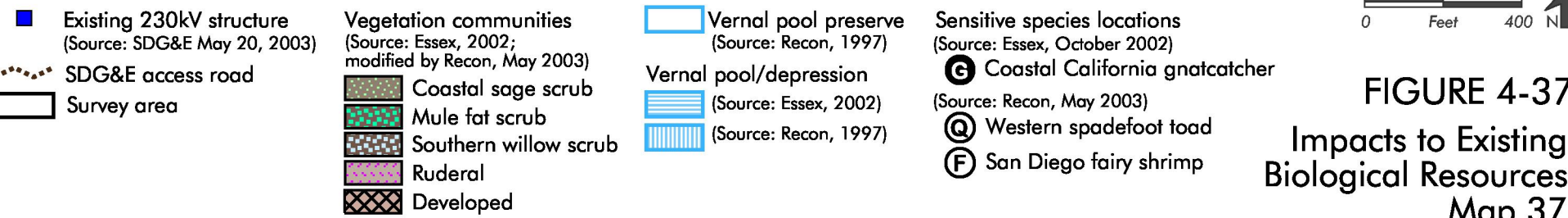


FIGURE 4-37
Impacts to Existing Biological Resources
Map 37

SDG&E Miguel - Mission 230kV #2

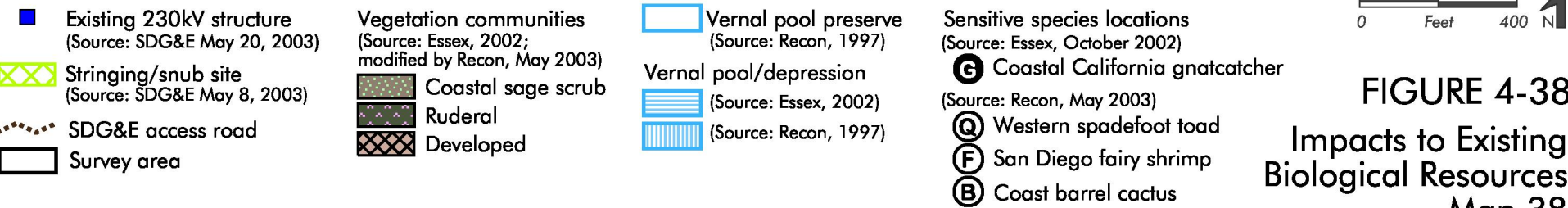
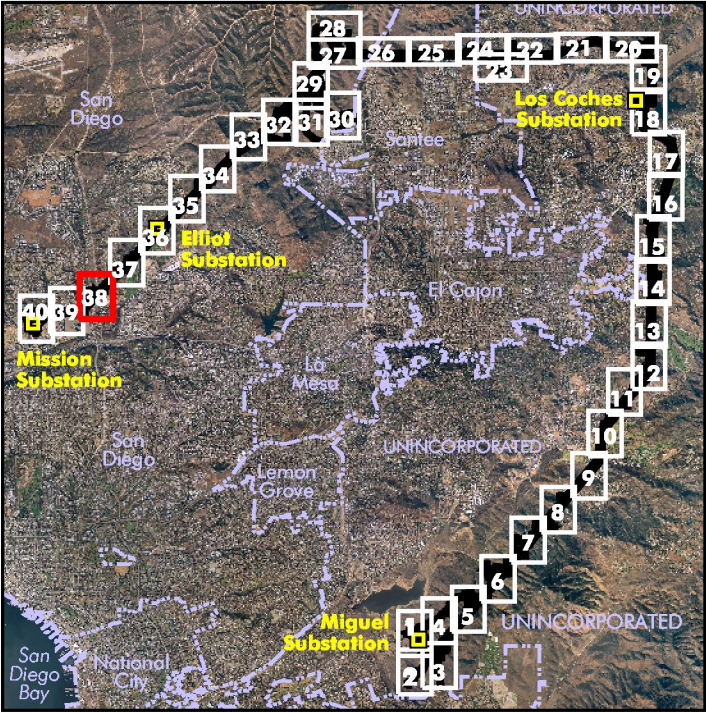


FIGURE 4-38
Impacts to Existing
Biological Resources
Map 38

SDG&E Miguel - Mission 230kV #2

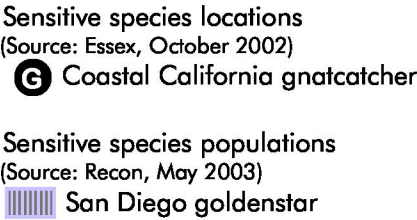
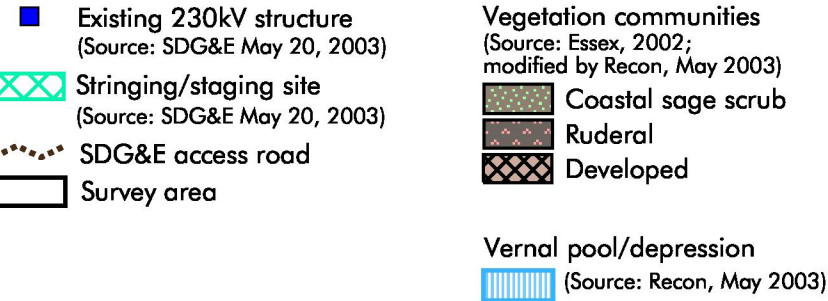
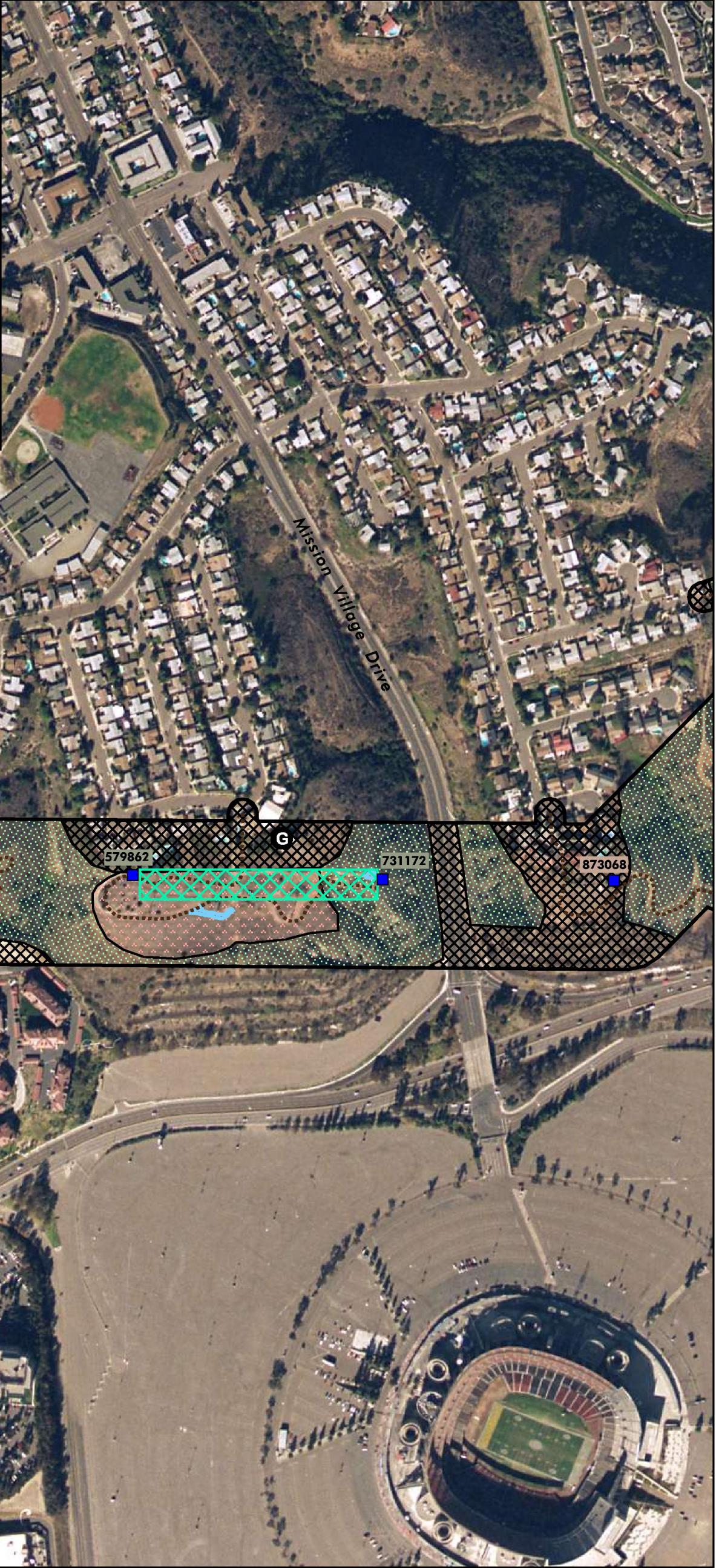
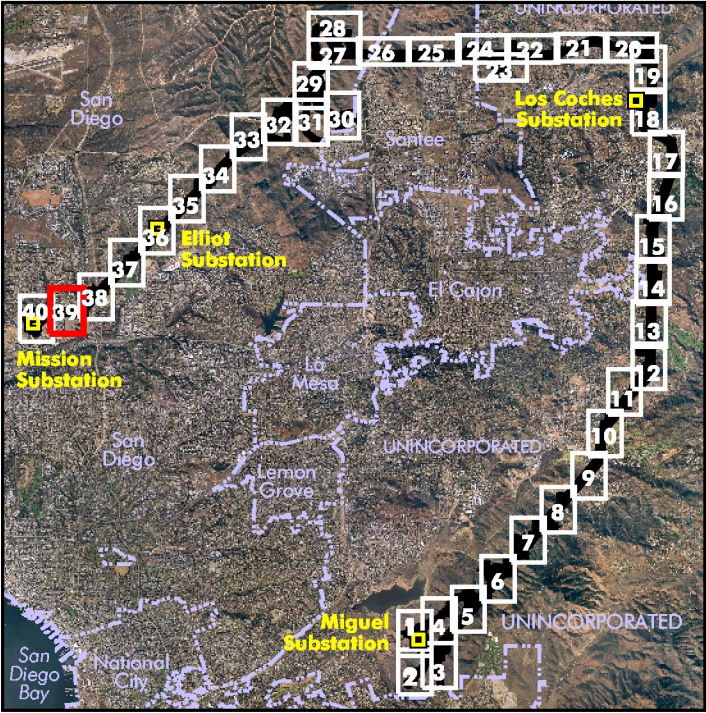
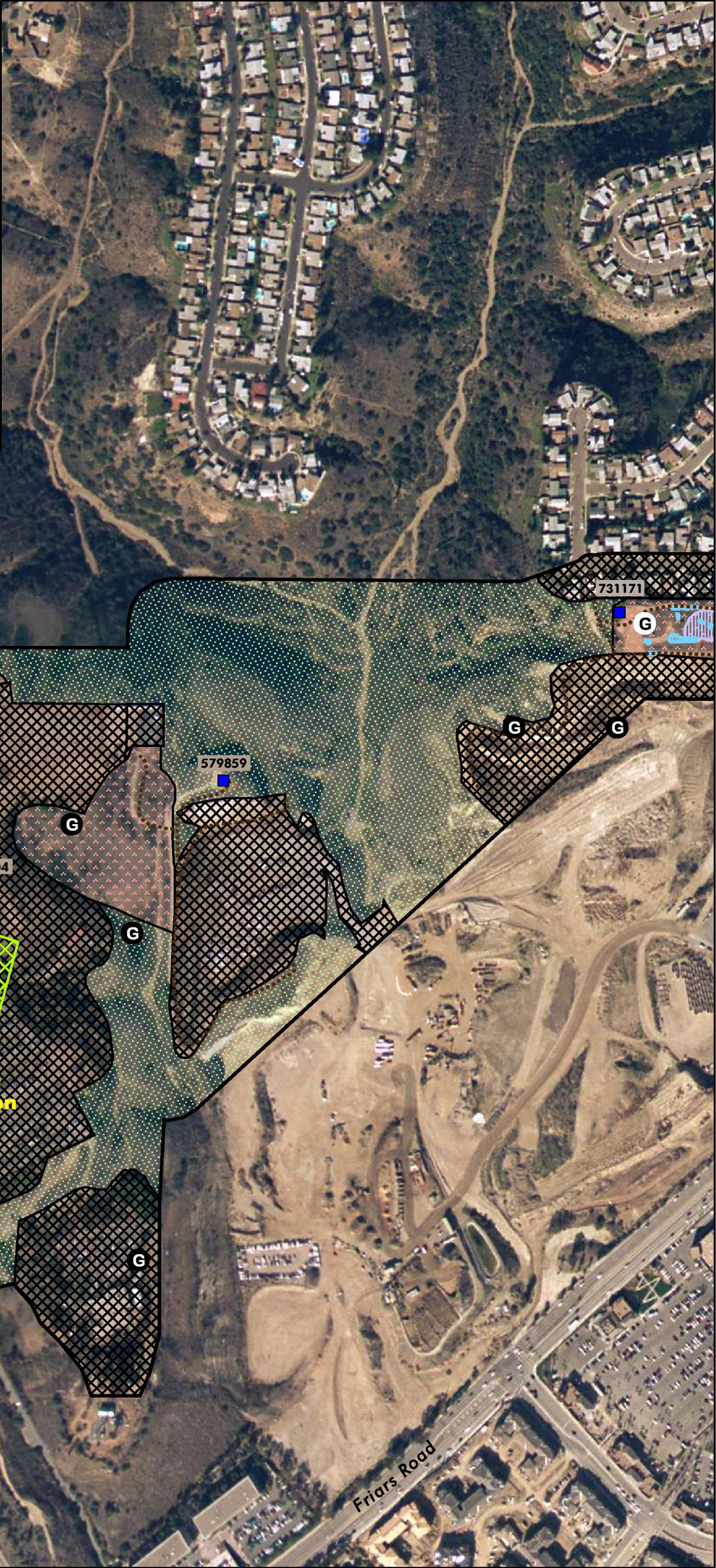
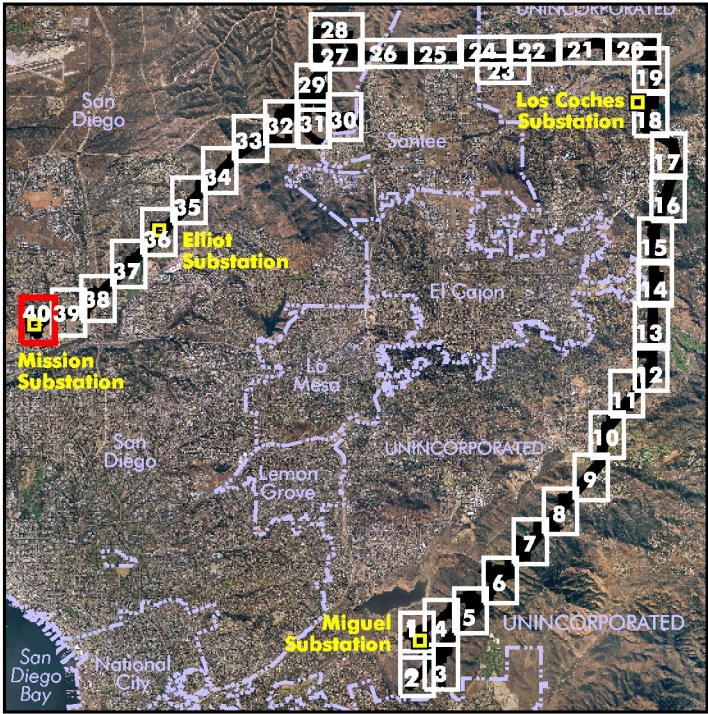


FIGURE 4-39
Impacts to Existing
Biological Resources
Map 39

SDG&E Miguel - Mission 230kV #2



- Existing 230kV structure (Source: SDG&E May 20, 2003)
- Stringing/snub site (Source: SDG&E May 8, 2003)
- SDG&E access road
- Survey area

- Vegetation communities**
(Source: Essex, 2002; modified by Recon, May 2003)
- Coastal sage scrub
 - Eucalyptus woodland
 - Ruderal
 - Developed

- Vernal pool/depression**
(Source: Recon, May 2003)
-

- Sensitive species locations**
(Source: Essex, October 2002)
- Coastal California gnatcatcher

- Sensitive species populations**
(Source: Recon, May 2003)
- San Diego goldenstar

0 Feet 400 N

FIGURE 4-40
Impacts to Existing Biological Resources
Map 40

SDG&E Miguel - Mission 230kV #2

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