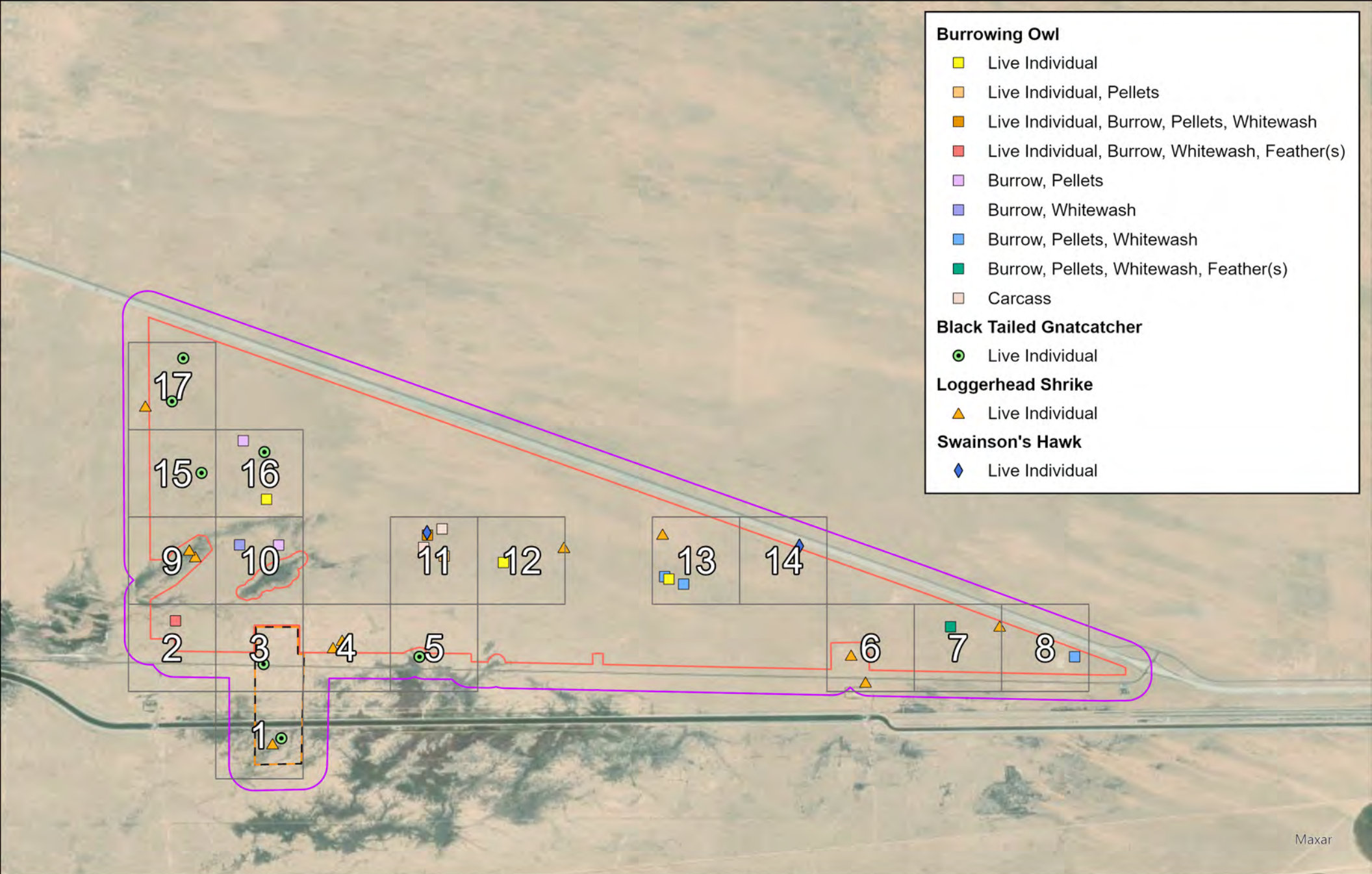


DOCKETED	
Docket Number:	24-OPT-01
Project Title:	Perkins Renewable Energy Project
TN #:	256717
Document Title:	Appendix J4 CNDDDB Figures - Confidential Avian Species and Invasive Plants
Description:	Figures showing survey results for Avian species and invasive plants.
Filer:	Emily Capello
Organization:	Panorama Environmental, Inc.
Submitter Role:	Applicant Consultant
Submission Date:	6/5/2024 8:42:47 PM
Docketed Date:	6/6/2024

Appendix J.4 Confidential Biological Resources Figures Part 1



0 1

Miles

Scale: 1:60,000

Ironwood

Consulting

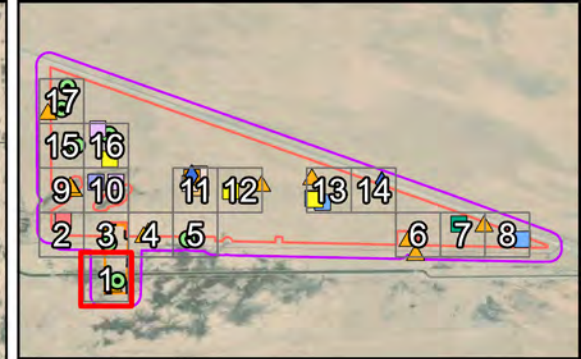
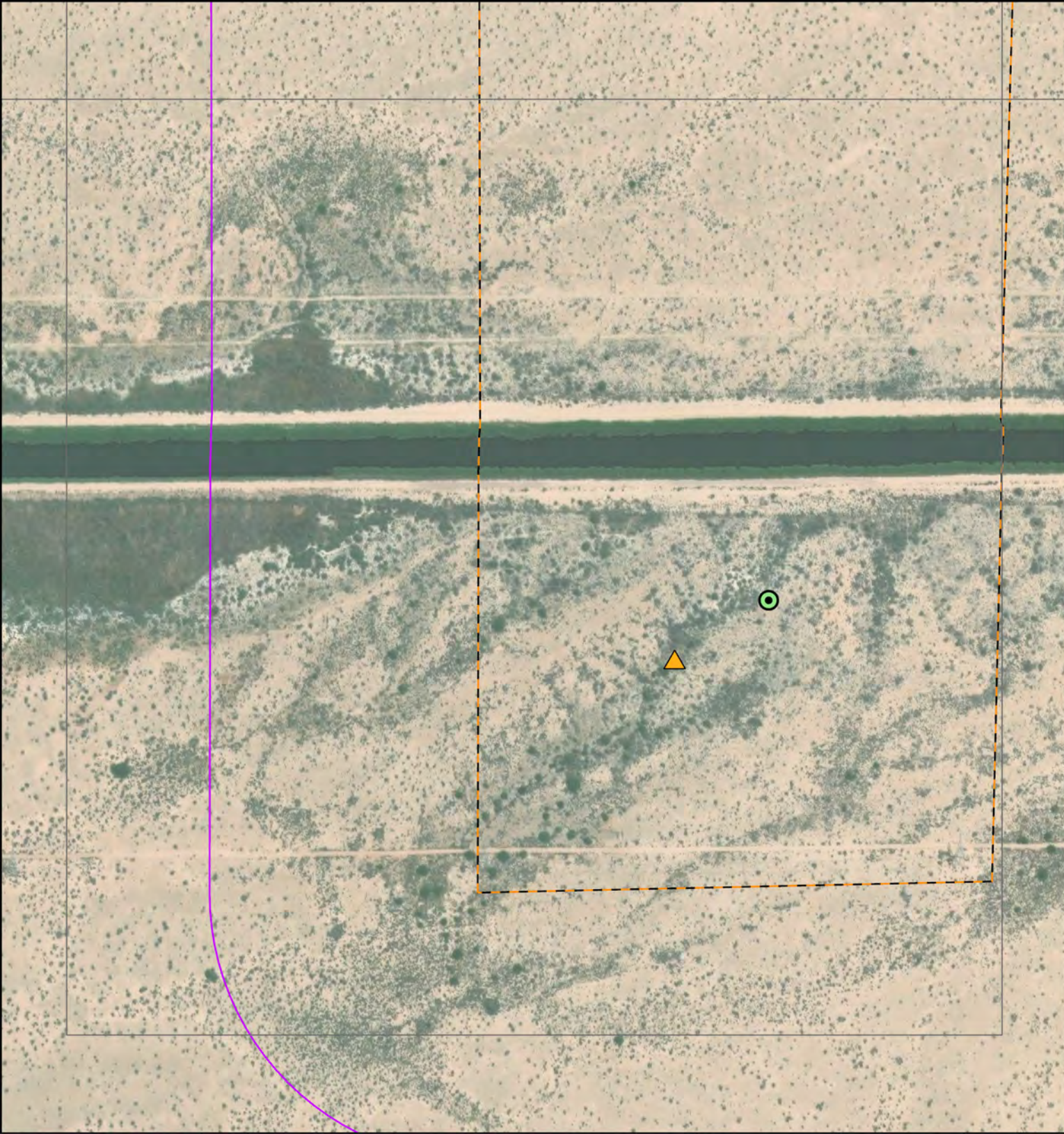
1000 Ft Buffer From Proposed Project Fence Line

Gen-Tie Corridor

Proposed Project Fence Line

Noteworthy Avian Observations Overview

Perkins CEC



Black Tailed Gnatcatcher

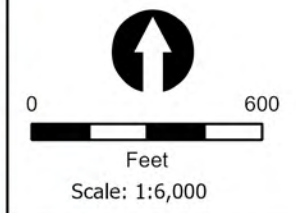
● Live Individual

Loggerhead Shrike

▲ Live Individual

□ 1000 Ft Buffer From Proposed Project Fence Line

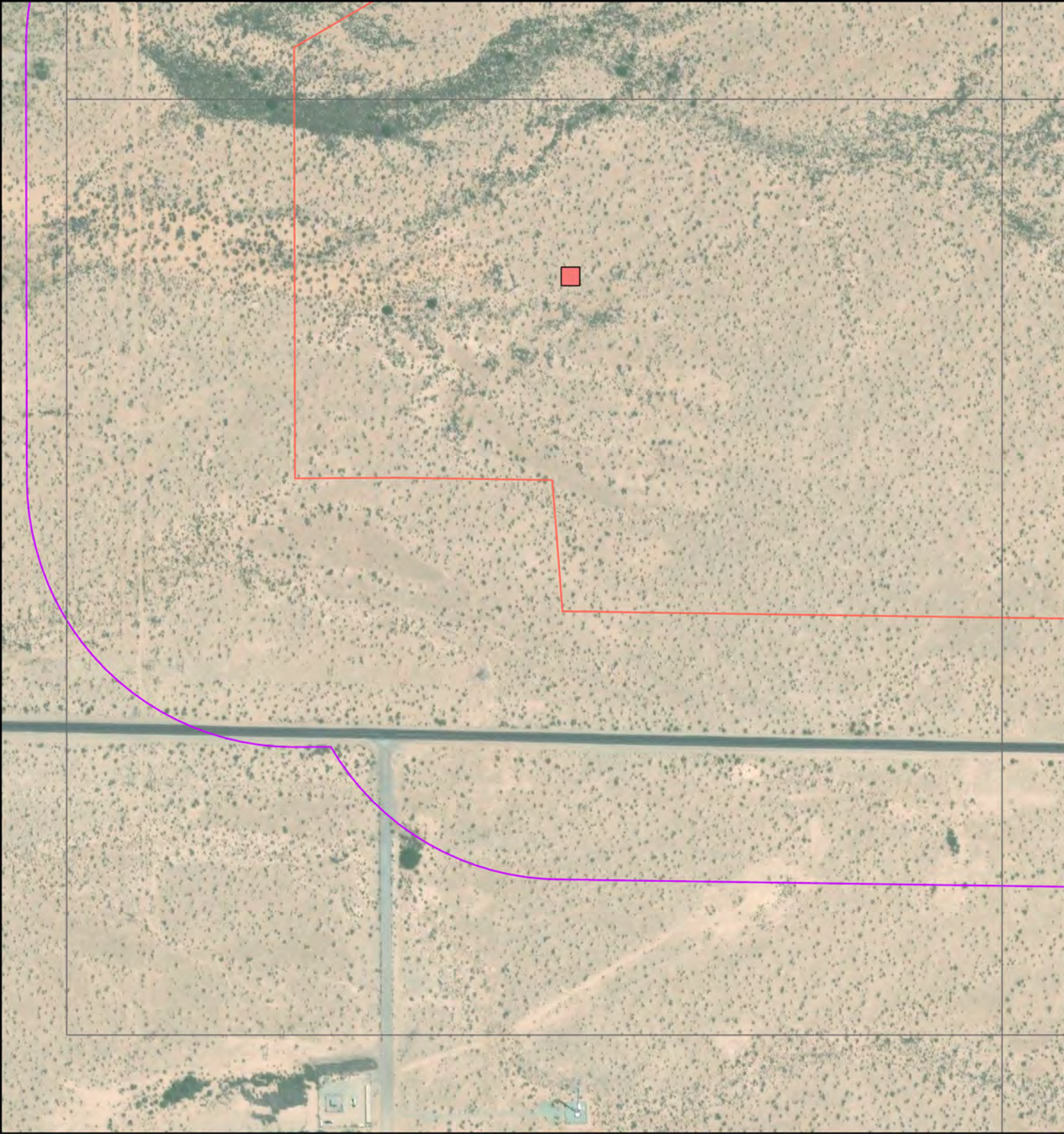
□ Gen-Tie Corridor



Ironwood Consulting

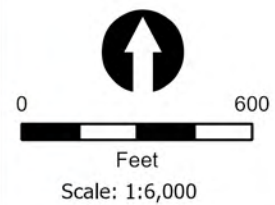
Noteworthy Avian Observations:1

Perkins CEC



Burrowing Owl

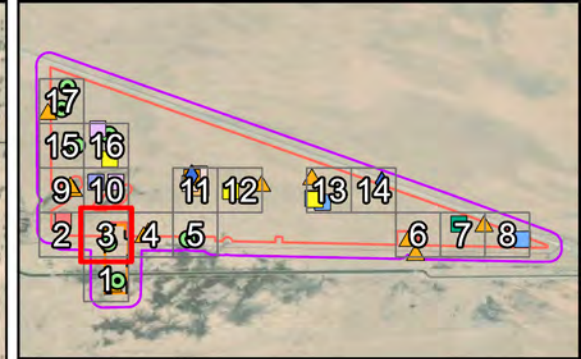
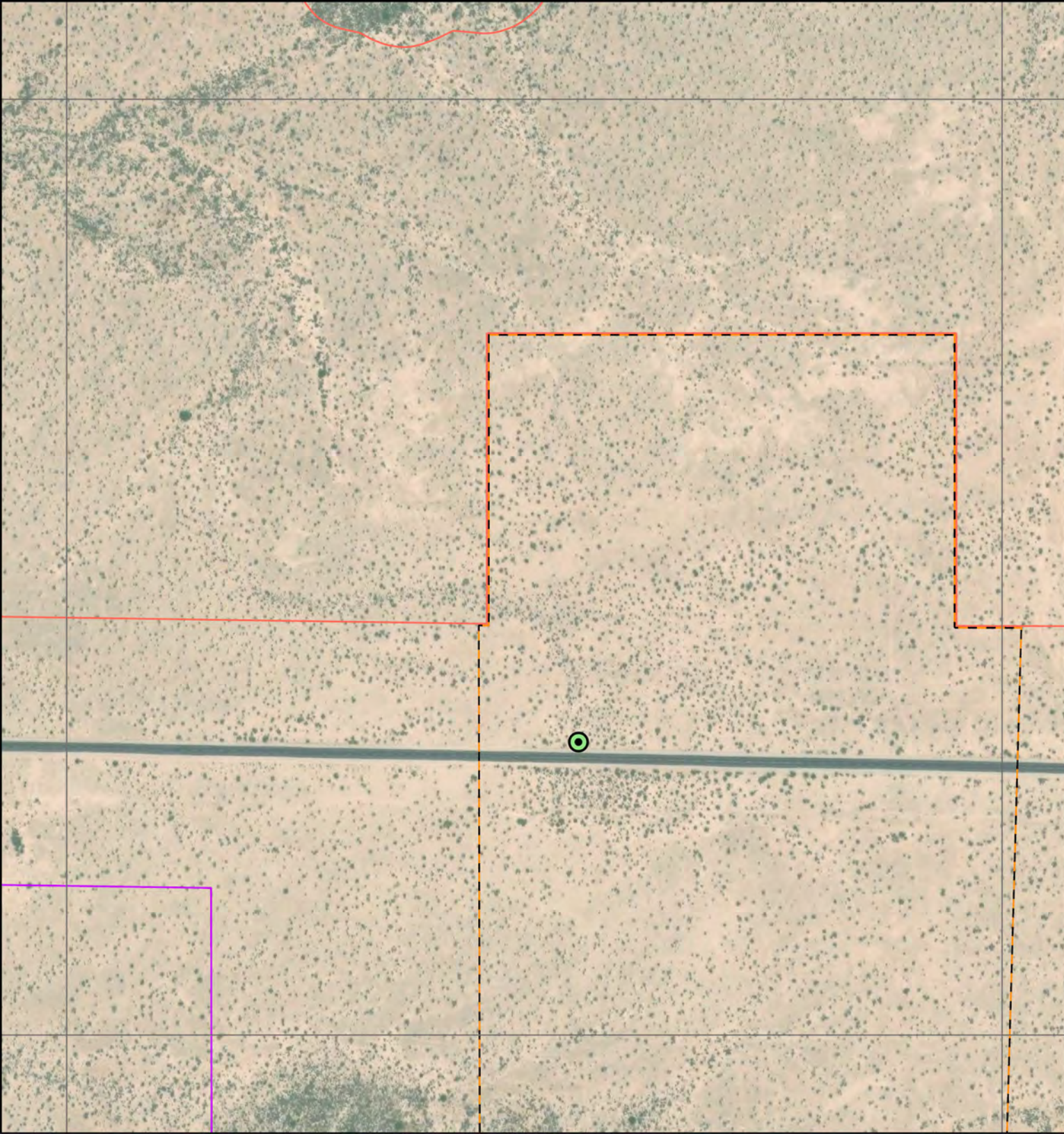
-  Live Individual, Burrow, Whitewash, Feather(s)
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



**Ironwood
Consulting**

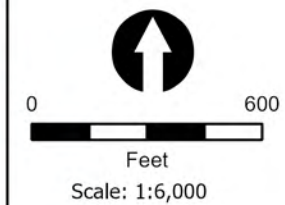
**Noteworthy Avian
Observations:2**

Perkins CEC



Black Tailed Gnatcatcher

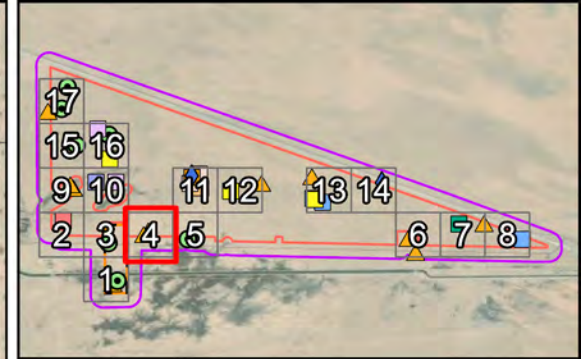
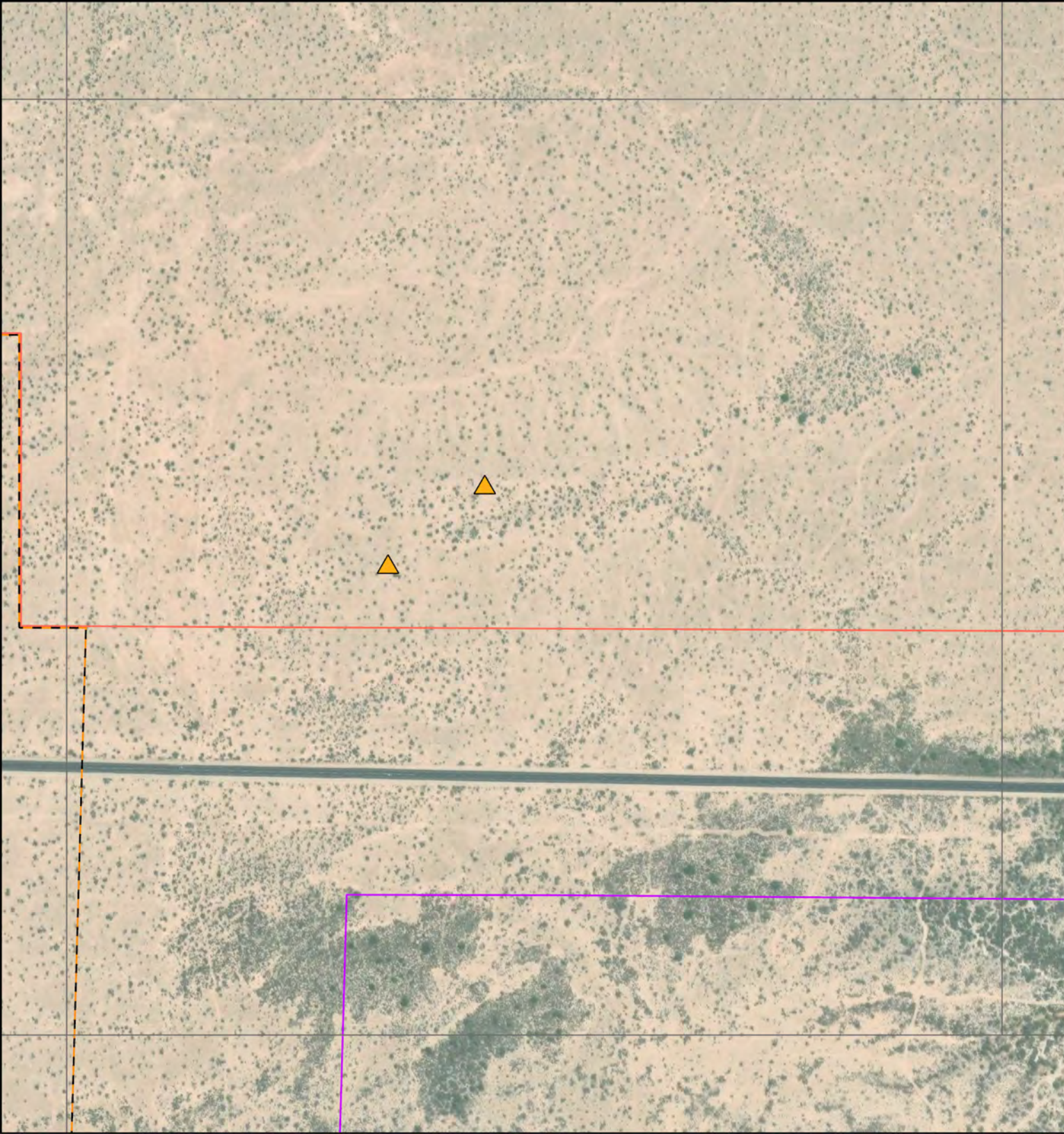
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Gen-Tie Corridor
-  Proposed Project Fence Line



**Ironwood
Consulting**

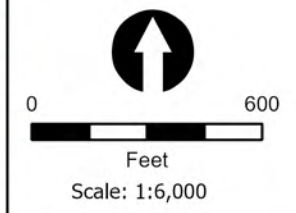
**Noteworthy Avian
Observations:3**

Perkins CEC



Loggerhead Shrike

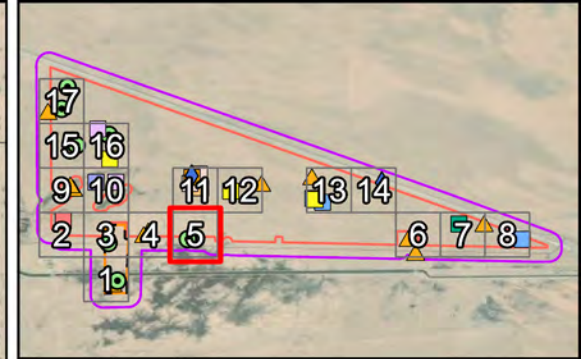
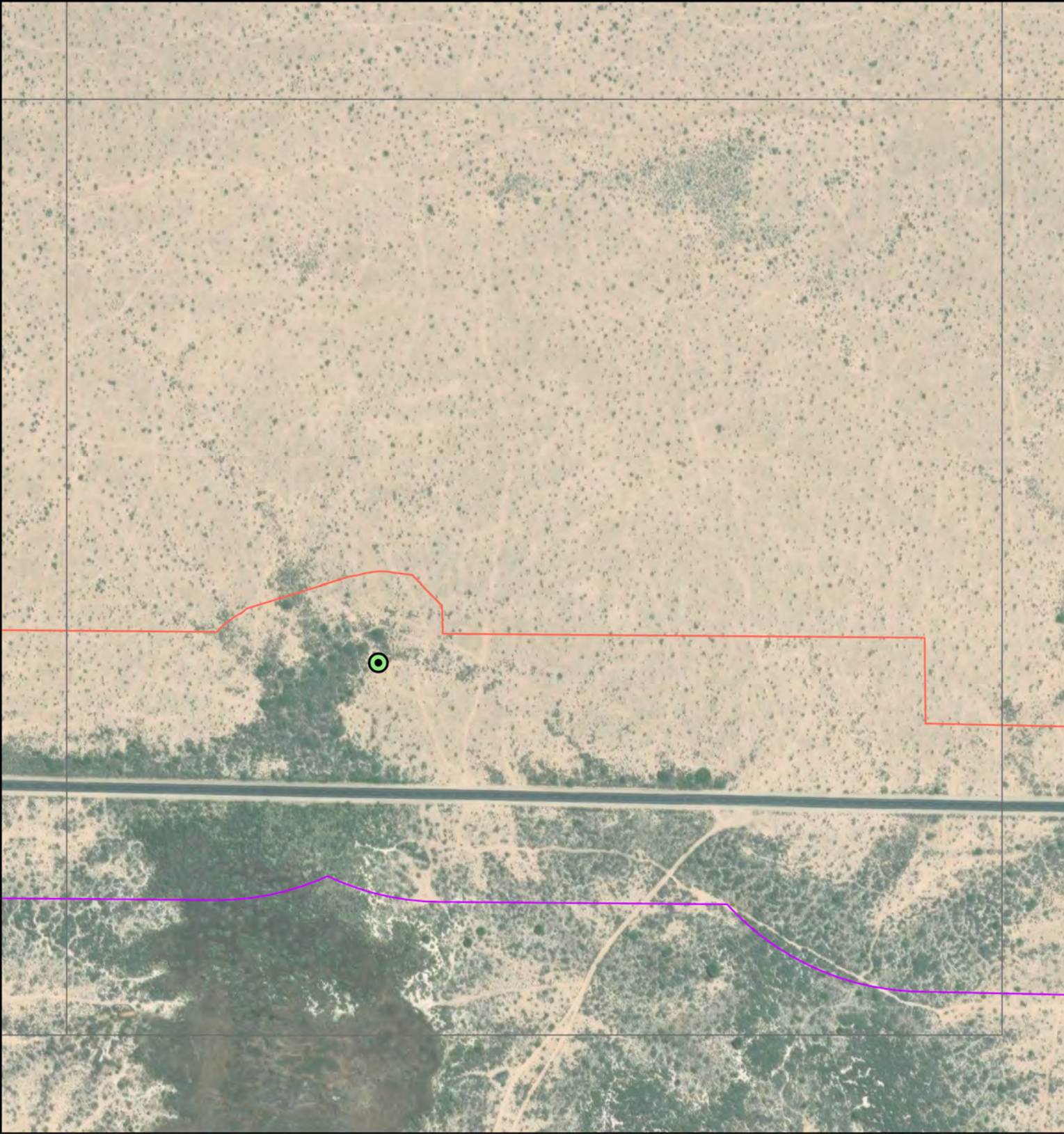
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Gen-Tie Corridor
-  Proposed Project Fence Line



**Ironwood
Consulting**

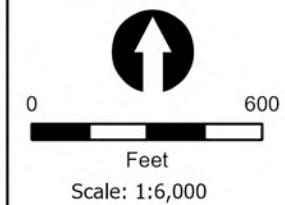
**Noteworthy Avian
Observations:4**

Perkins CEC



Black Tailed Gnatcatcher

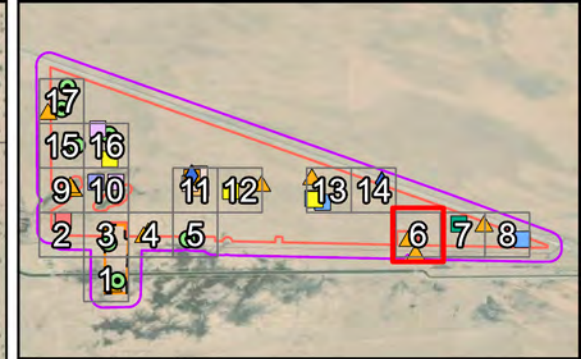
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



Ironwood
Consulting

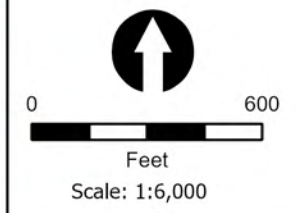
Noteworthy Avian
Observations:5

Perkins CEC



Loggerhead Shrike

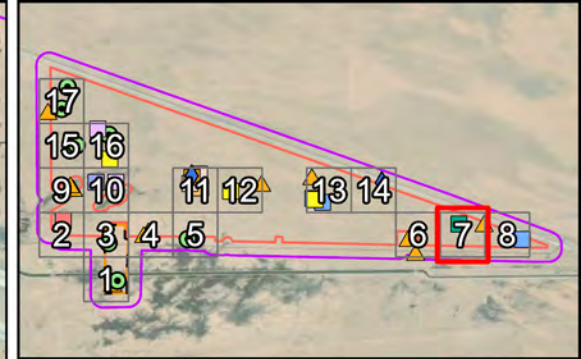
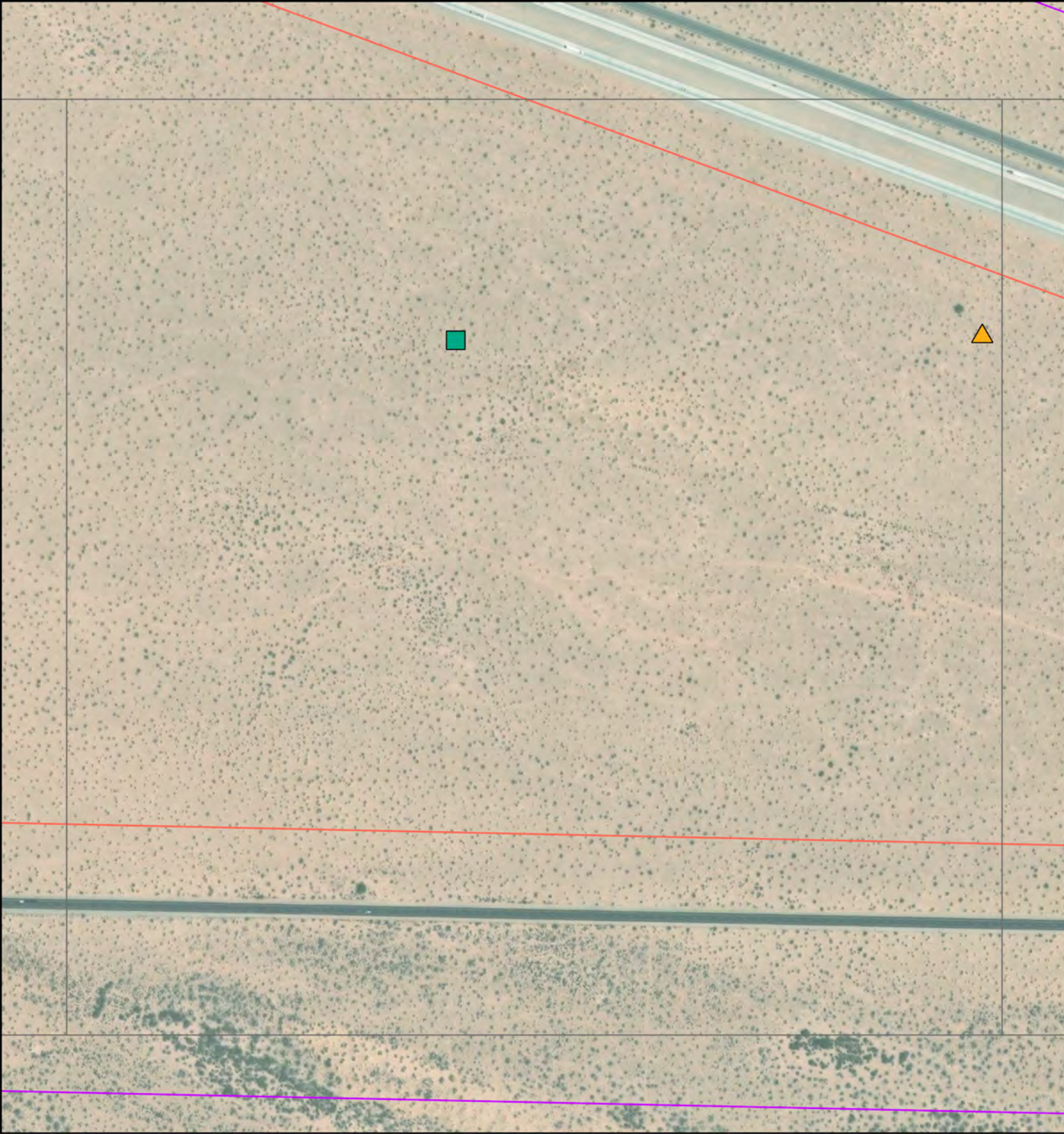
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Avian
Observations:6**

Perkins CEC

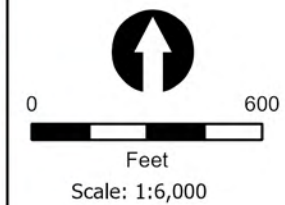


Burrowing Owl

-  Burrow, Pellets, Whitewash, Feather(s)

Loggerhead Shrike

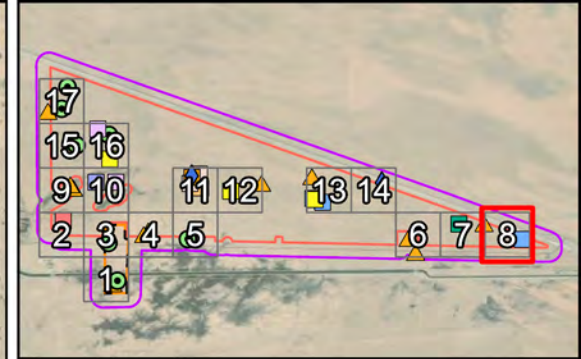
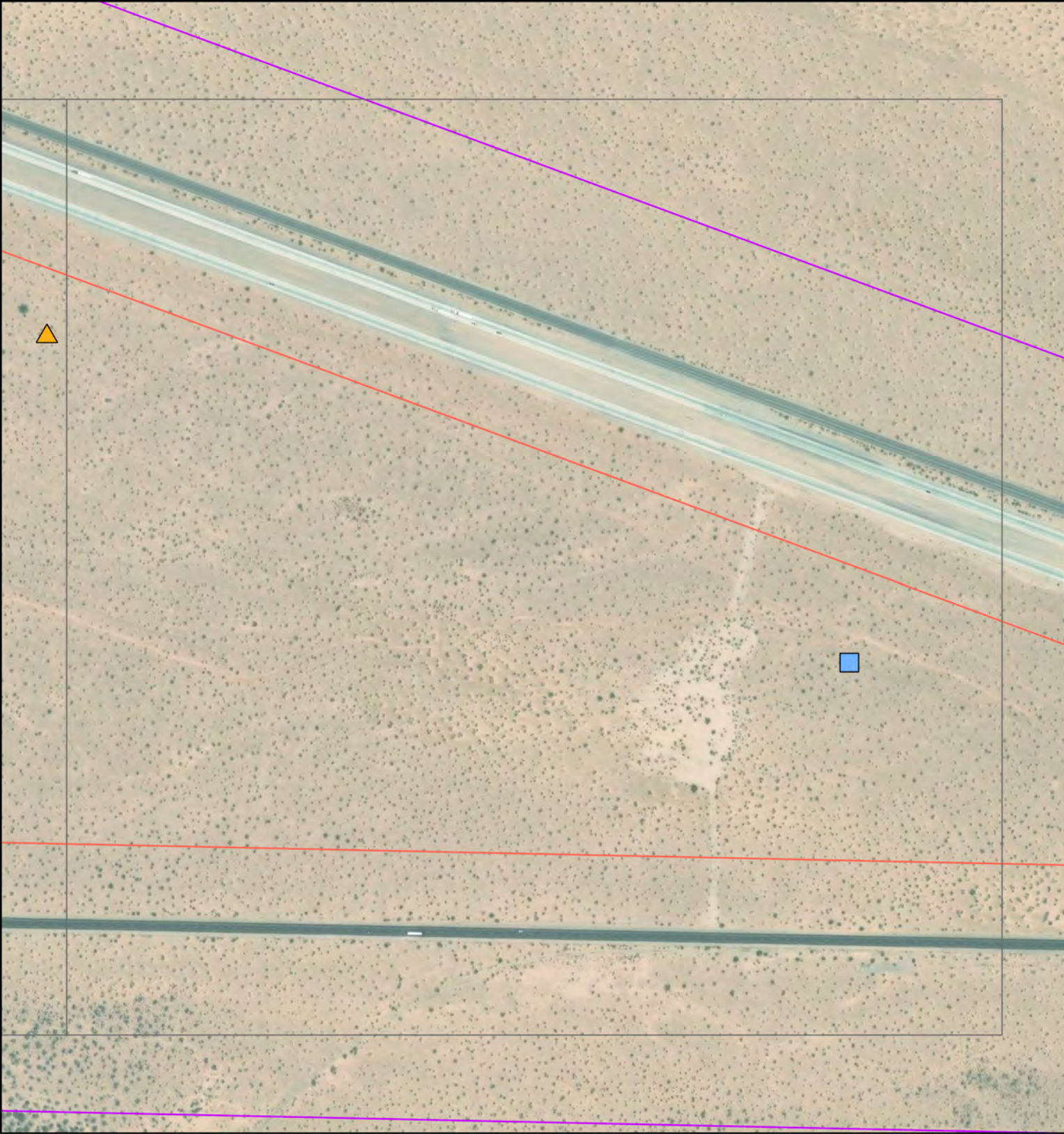
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



Ironwood Consulting

Noteworthy Avian Observations:7

Perkins CEC

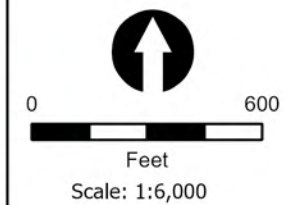


Burrowing Owl

- Burrow, Pellets, Whitewash

Loggerhead Shrike

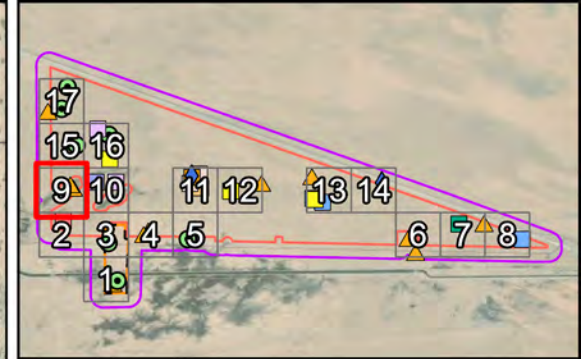
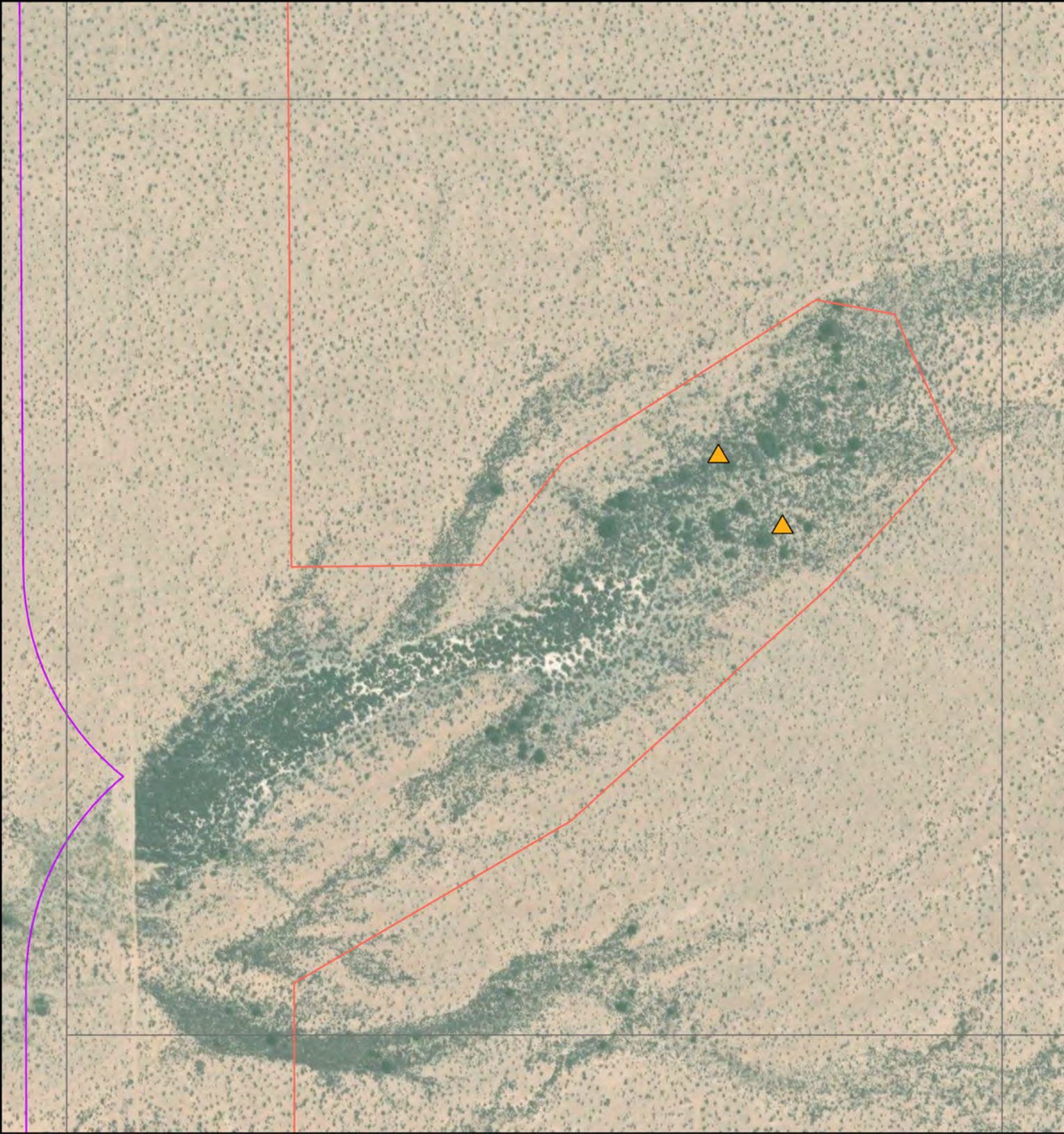
- ▲ Live Individual
- 1000 Ft Buffer From Proposed Project Fence Line
- Proposed Project Fence Line



Ironwood Consulting

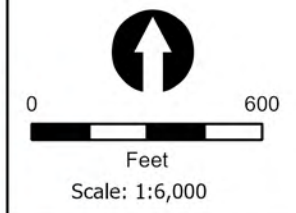
Noteworthy Avian Observations:8

Perkins CEC



Loggerhead Shrike

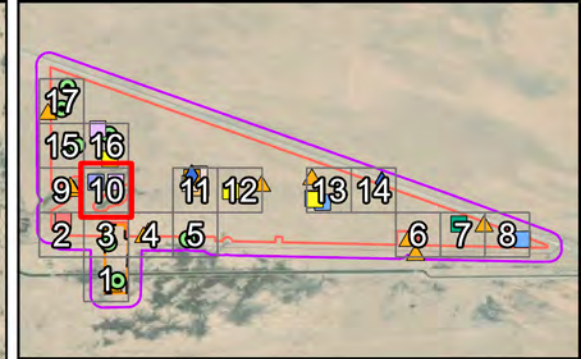
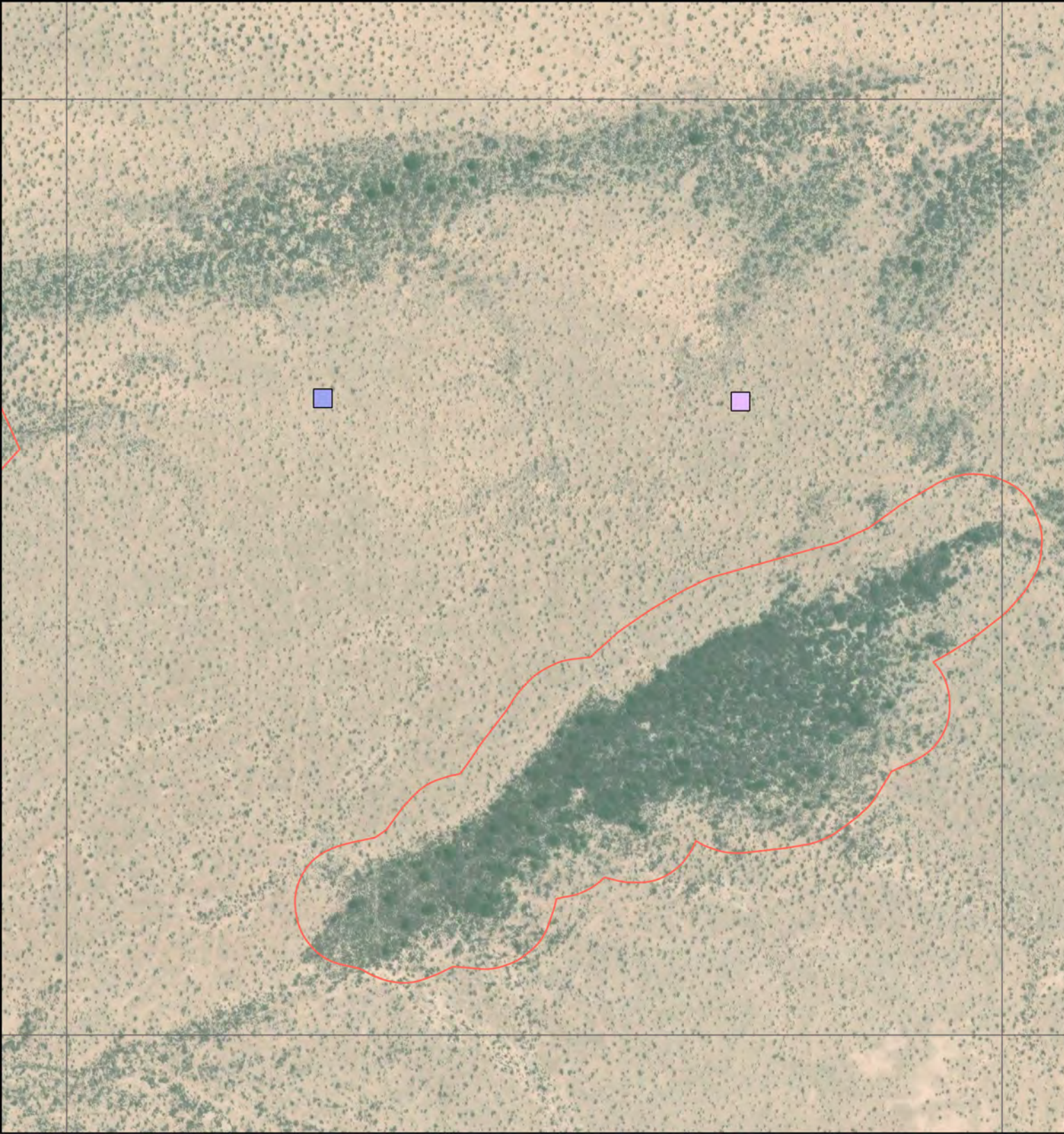
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



**Ironwood
Consulting**

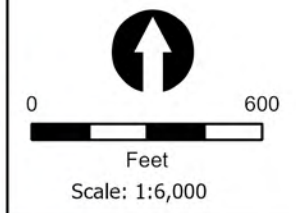
**Noteworthy Avian
Observations:9**

Perkins CEC



Burrowing Owl

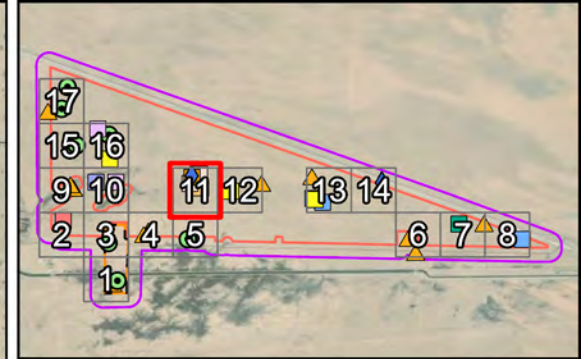
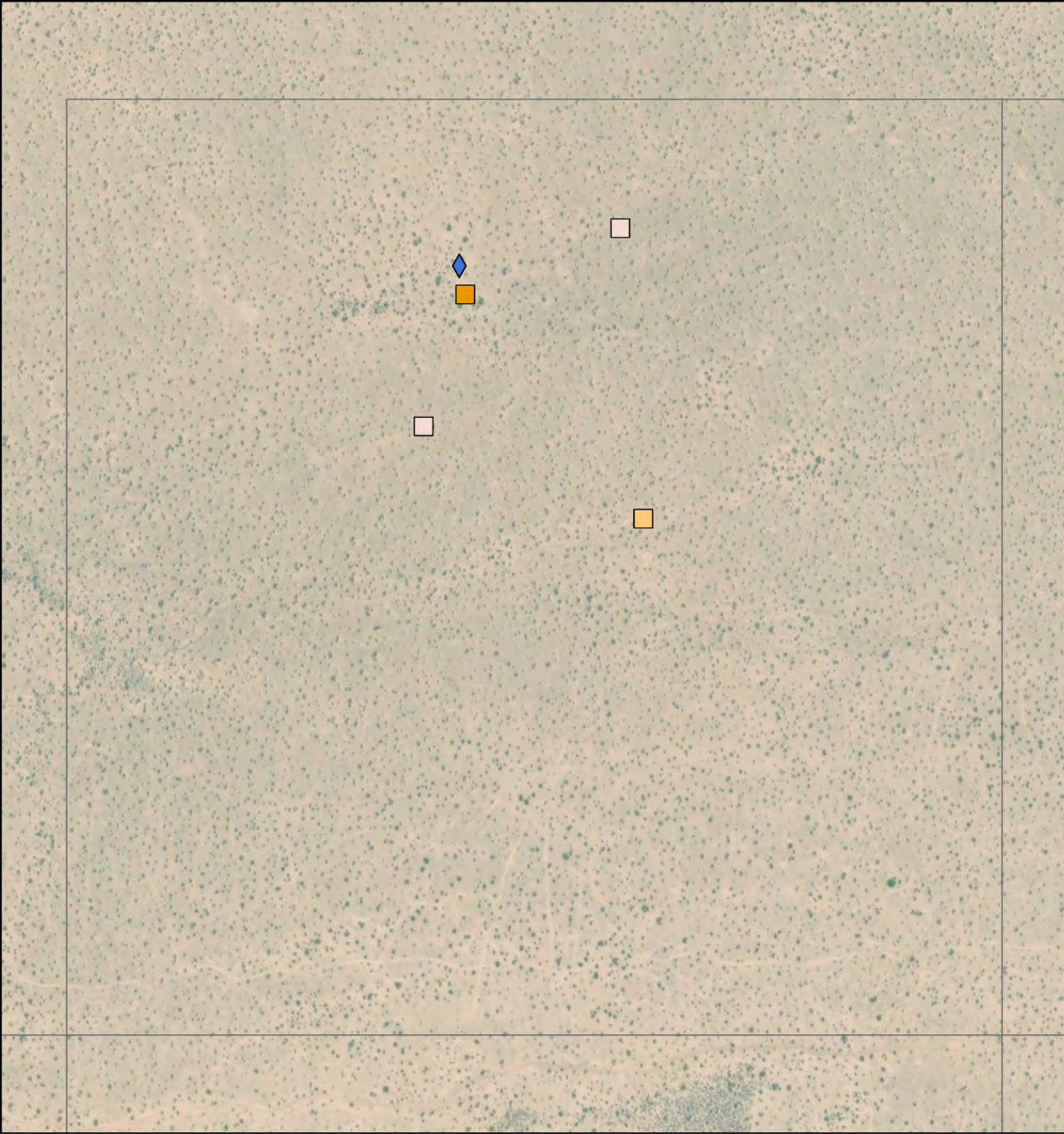
-  Burrow, Pellets
-  Burrow, Whitewash
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Avian
Observations:10**

Perkins CEC



Burrowing Owl

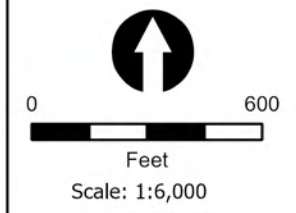
-  Live Individual, Pellets
-  Live Individual, Burrow, Pellets, Whitewash
-  Carcass

Swainson's Hawk

-  Live Individual

 1000 Ft Buffer From Proposed Project Fence Line

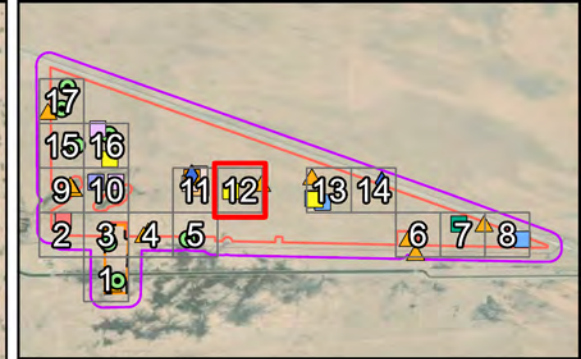
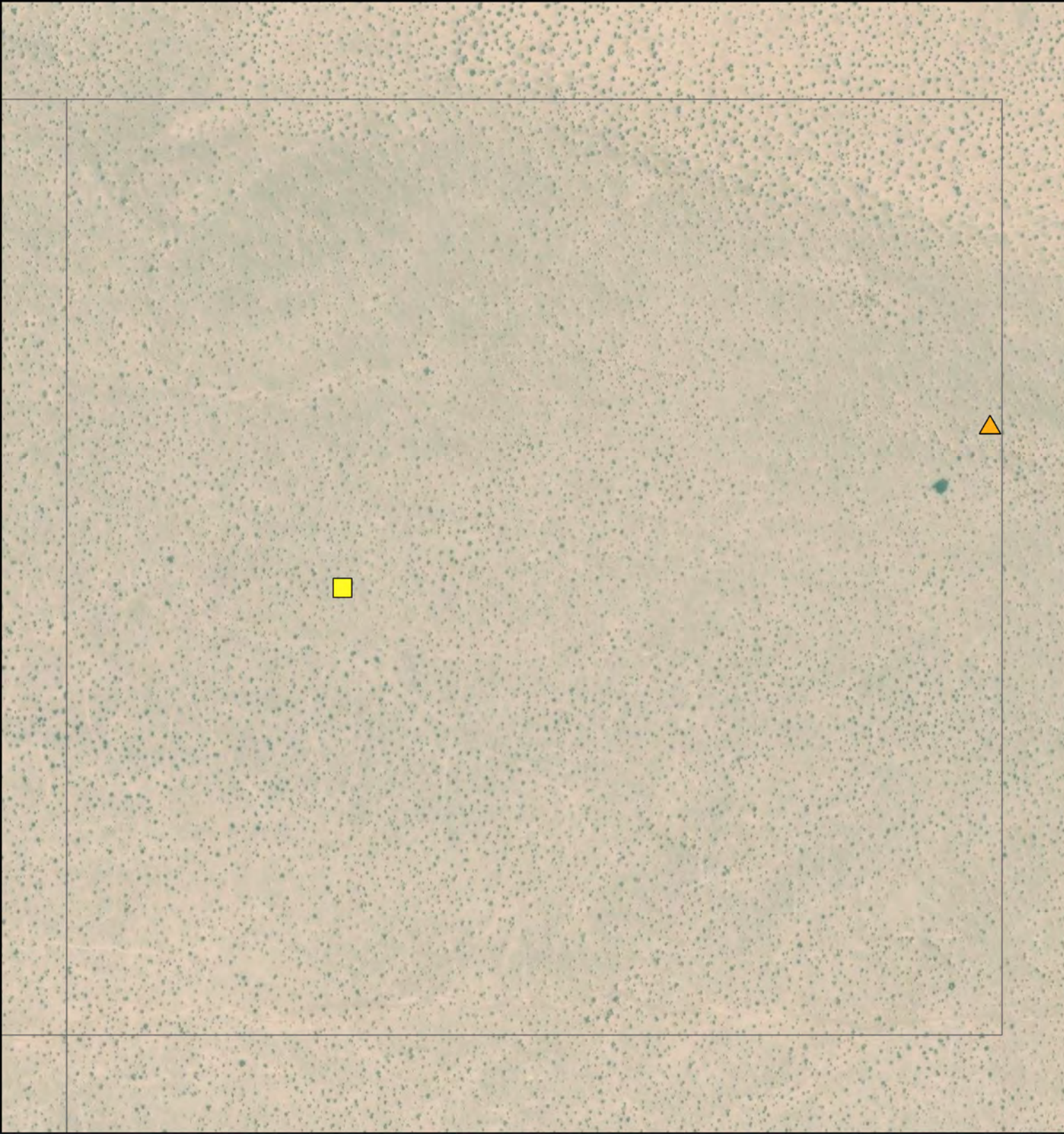
 Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Avian
Observations: 11**

Perkins CEC



Burrowing Owl

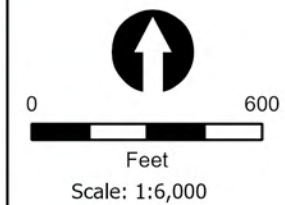
Live Individual

Loggerhead Shrike

Live Individual

1000 Ft Buffer From Proposed Project Fence Line

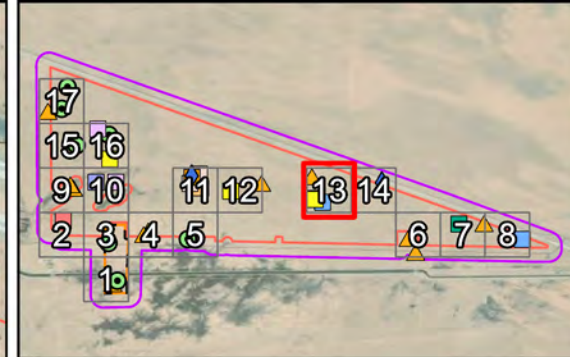
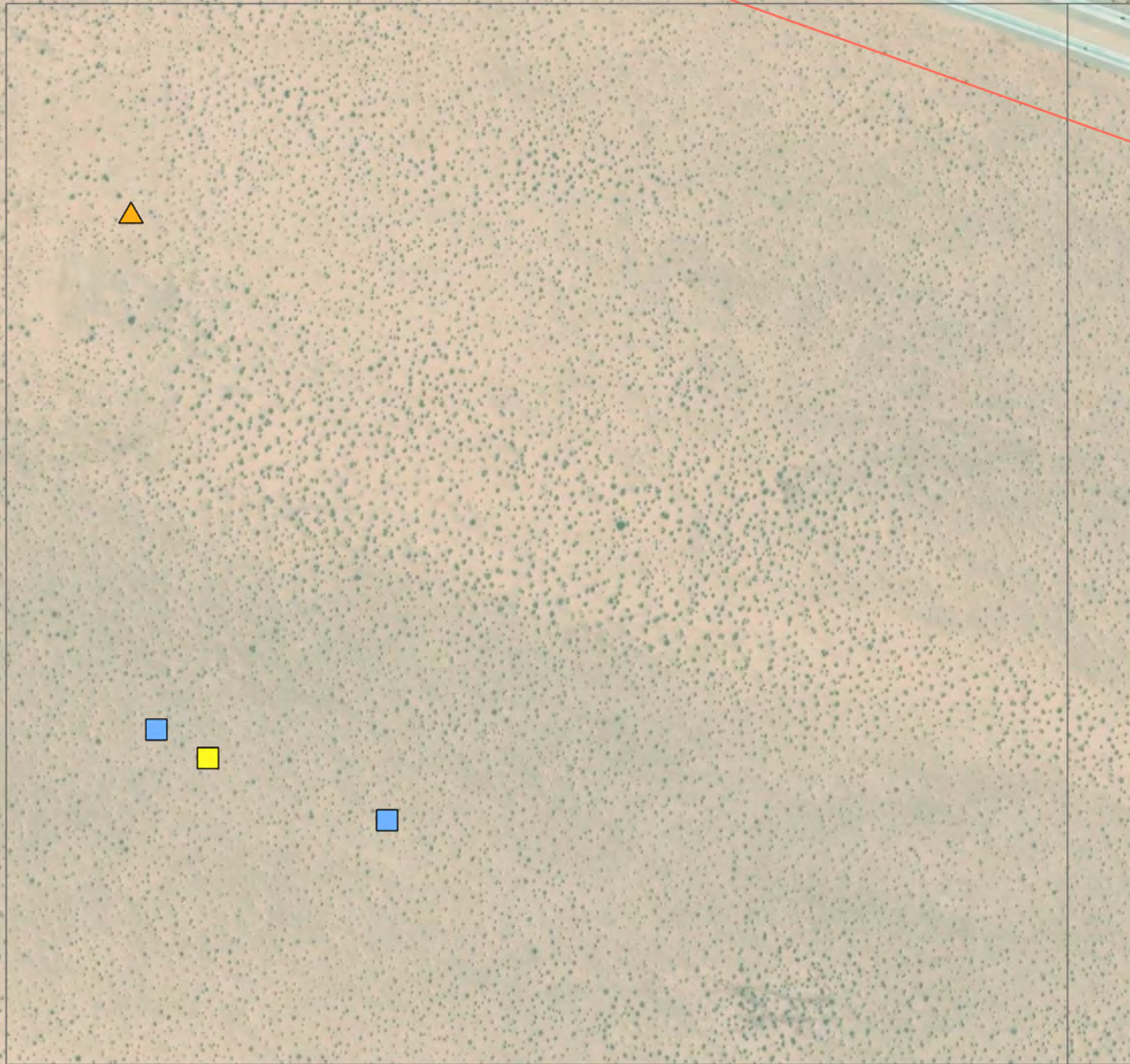
Proposed Project Fence Line



Ironwood Consulting

Noteworthy Avian Observations:12

Perkins CEC

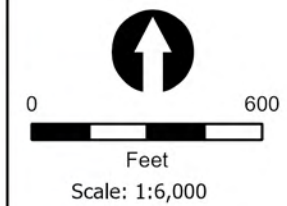


Burrowing Owl

-  Live Individual
-  Burrow, Pellets, Whitewash

Loggerhead Shrike

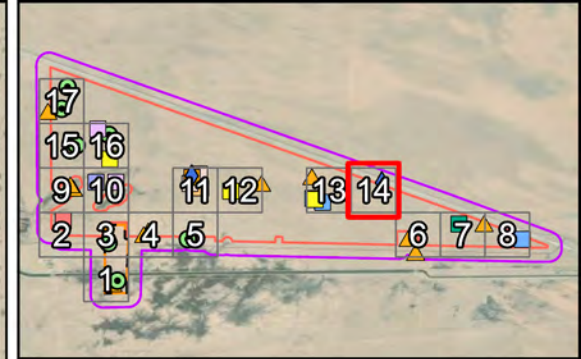
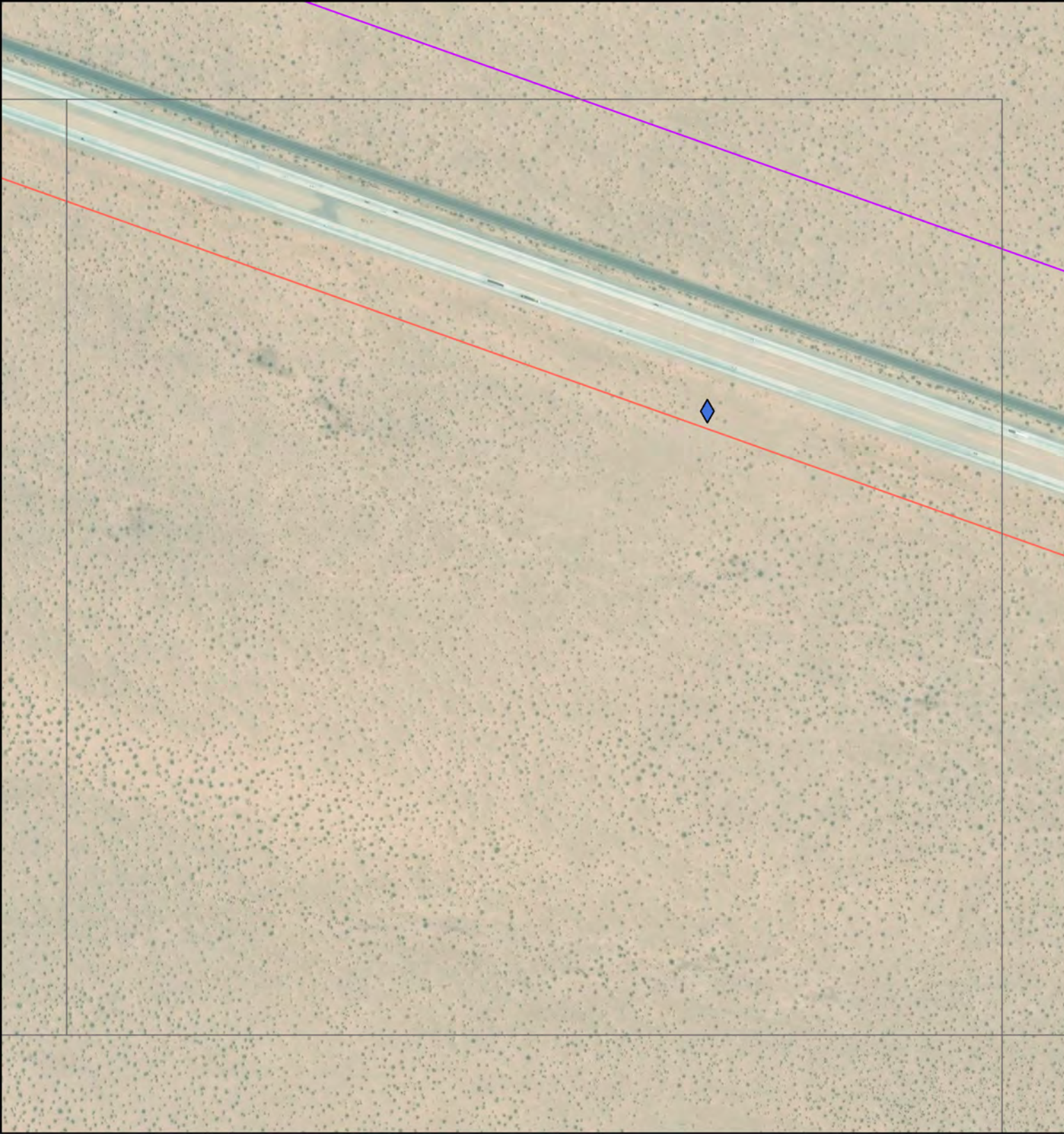
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



**Ironwood
Consulting**

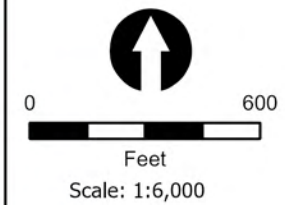
**Noteworthy Avian
Observations:13**

Perkins CEC



Swainson's Hawk

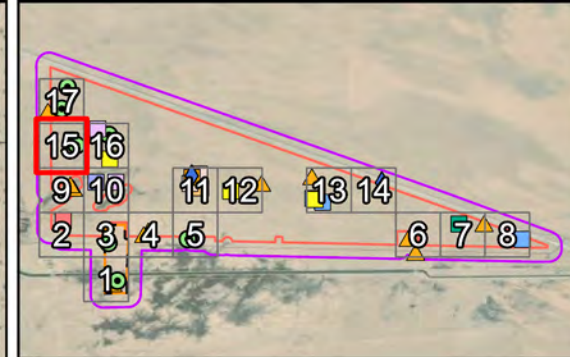
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



**Ironwood
Consulting**

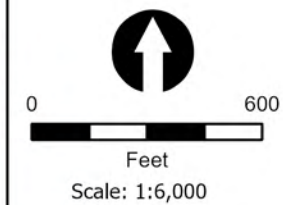
**Noteworthy Avian
Observations:14**

Perkins CEC



Black Tailed Gnatcatcher

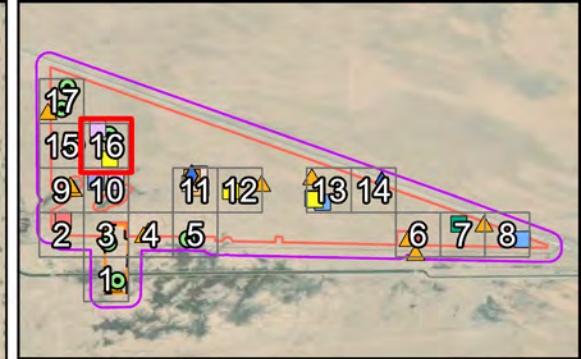
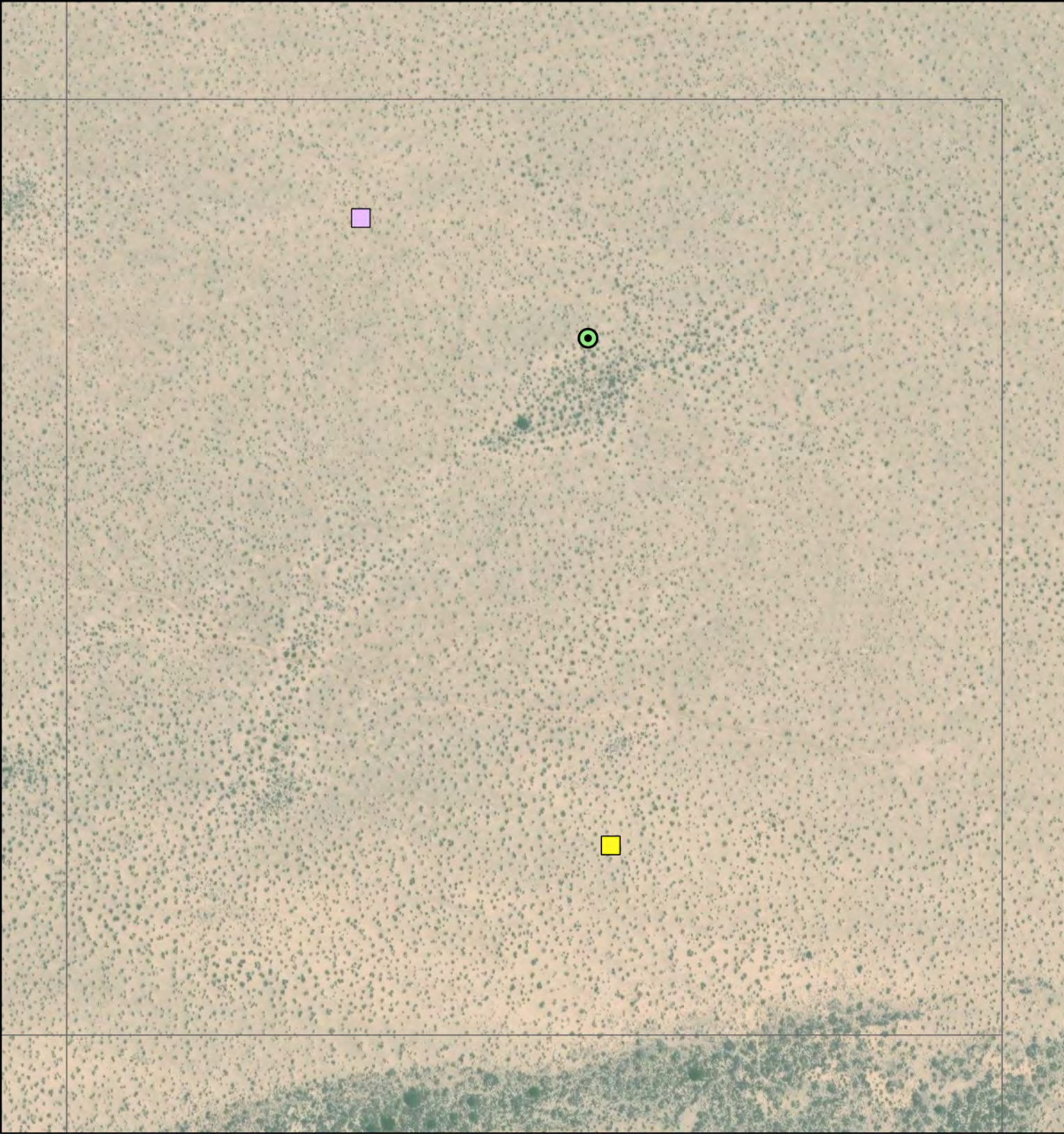
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



Ironwood
Consulting

Noteworthy Avian
Observations:15

Perkins CEC

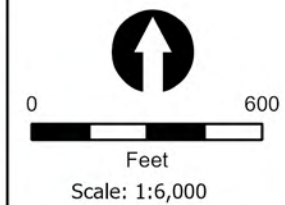


Burrowing Owl

-  Live Individual
-  Burrow, Pellets

Black Tailed Gnatcatcher

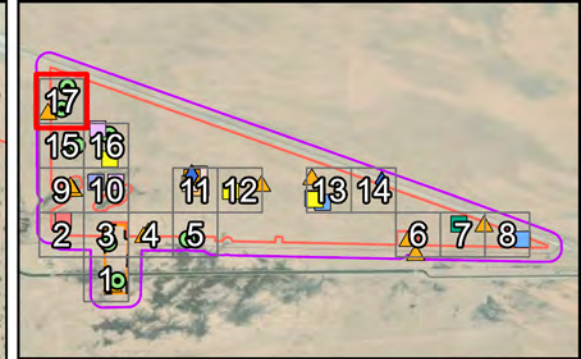
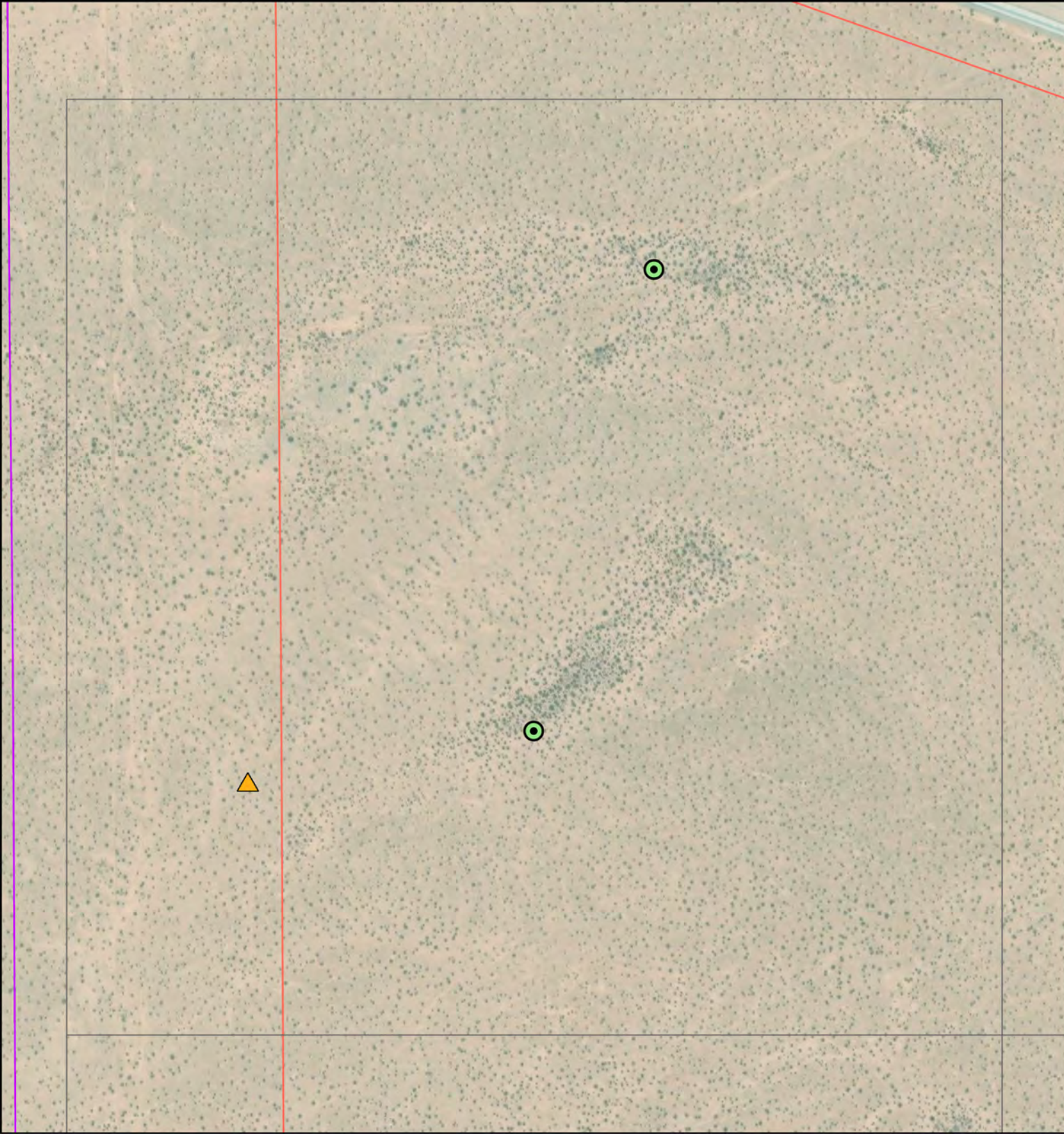
-  Live Individual
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Avian
Observations:16**

Perkins CEC



Black Tailed Gnatcatcher

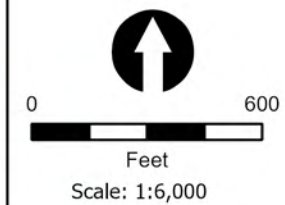
 Live Individual

Loggerhead Shrike

 Live Individual

 1000 Ft Buffer From Proposed Project Fence Line

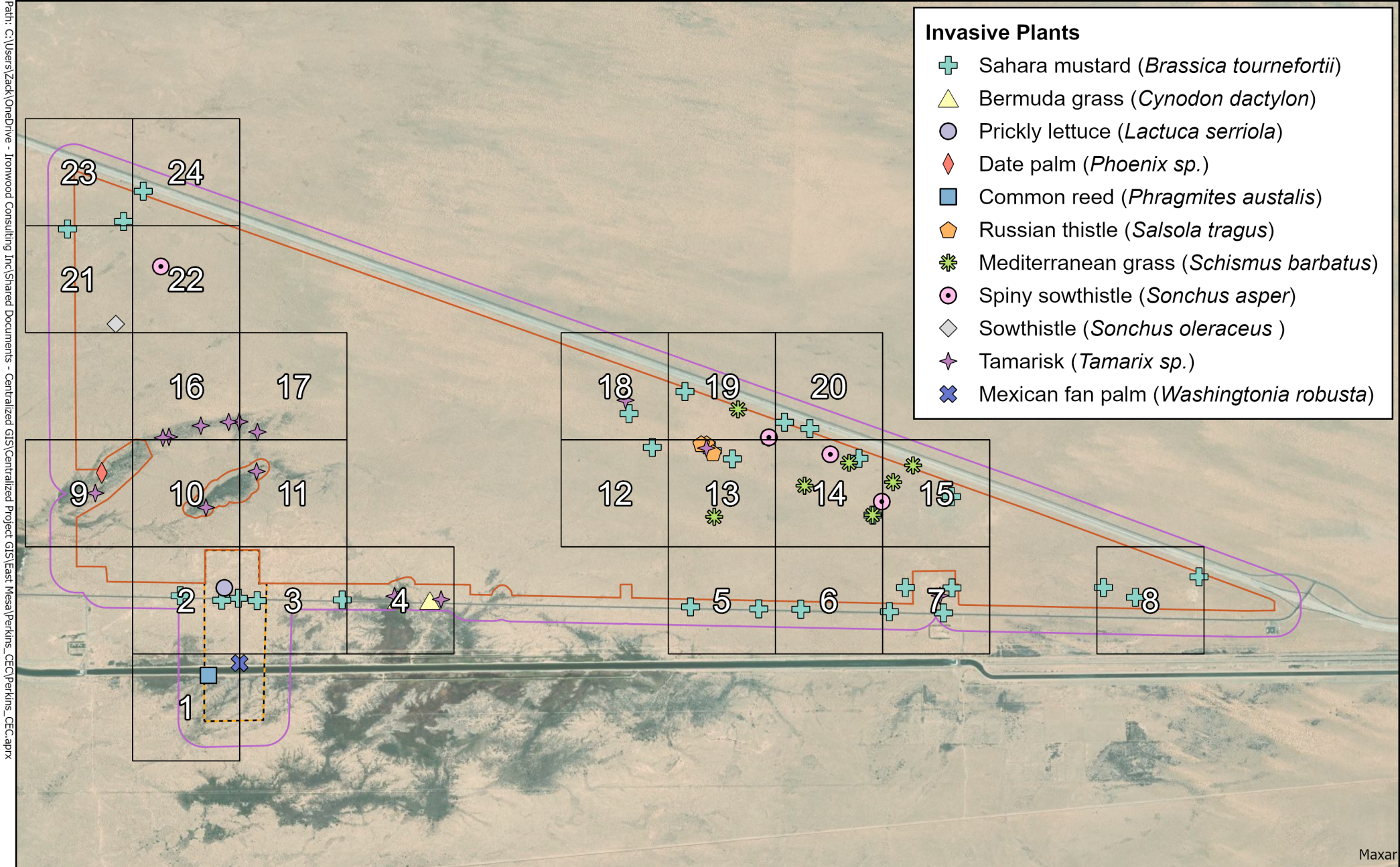
 Proposed Project Fence Line



Ironwood Consulting

Noteworthy Avian Observations: 17

Perkins CEC



Scale: 1:50,437

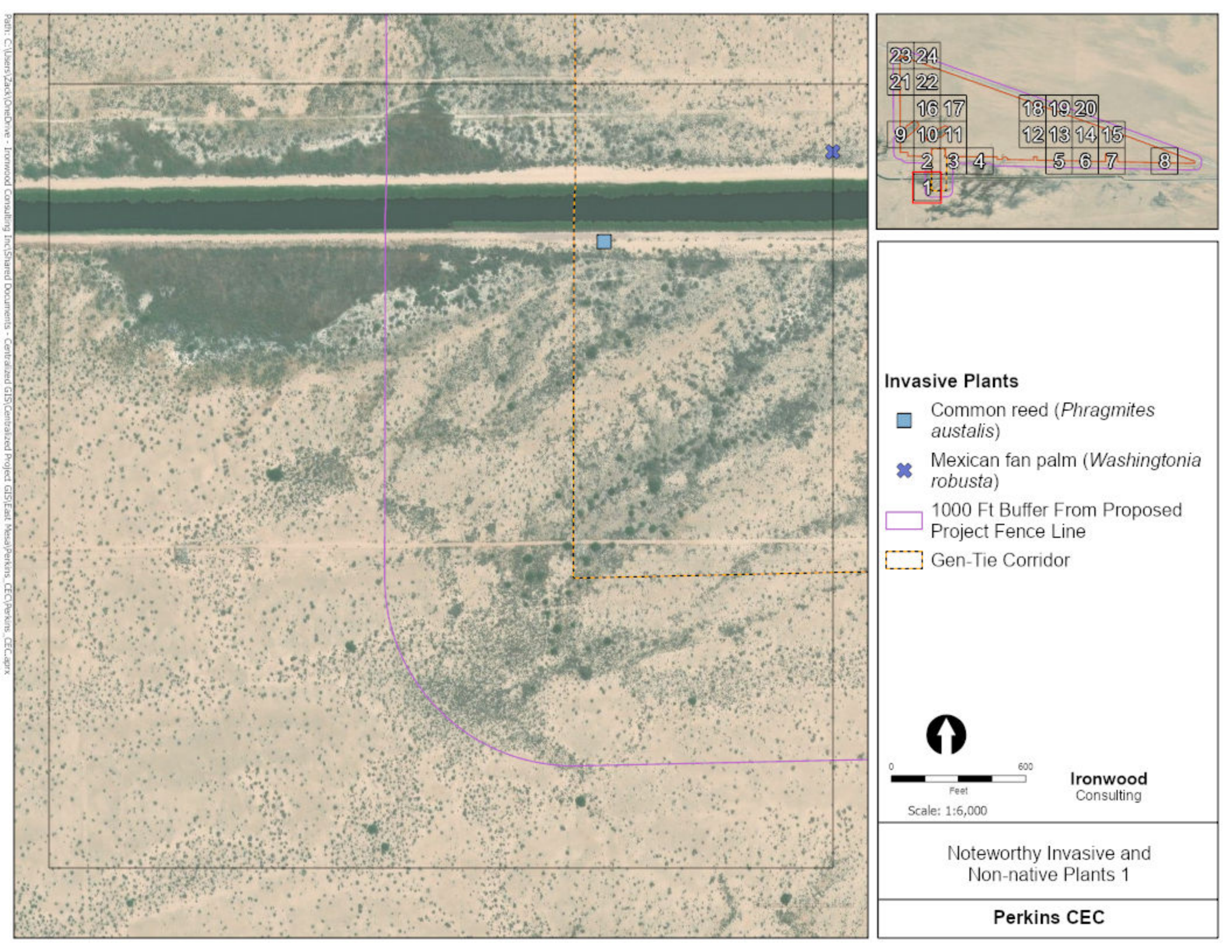


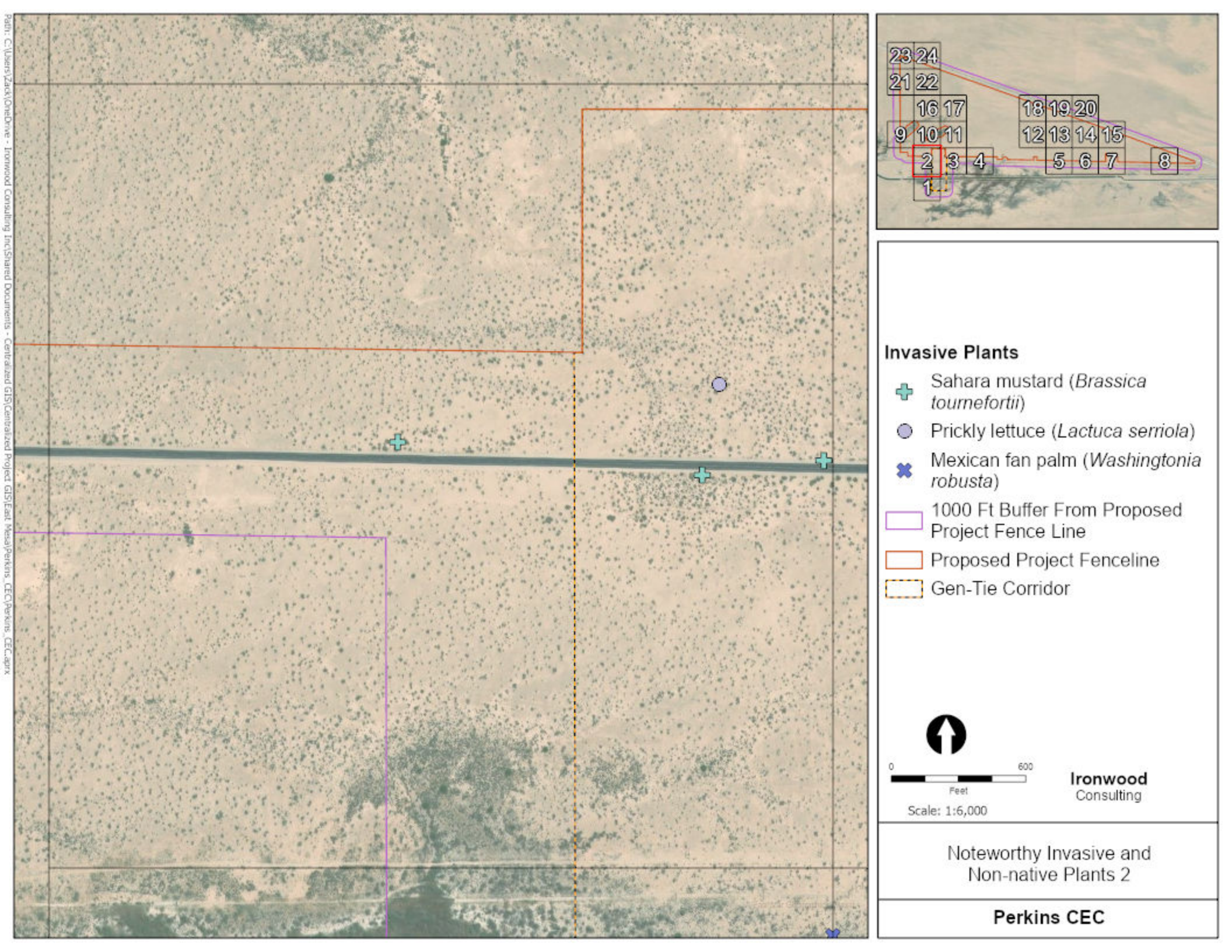
Ironwood
Consulting

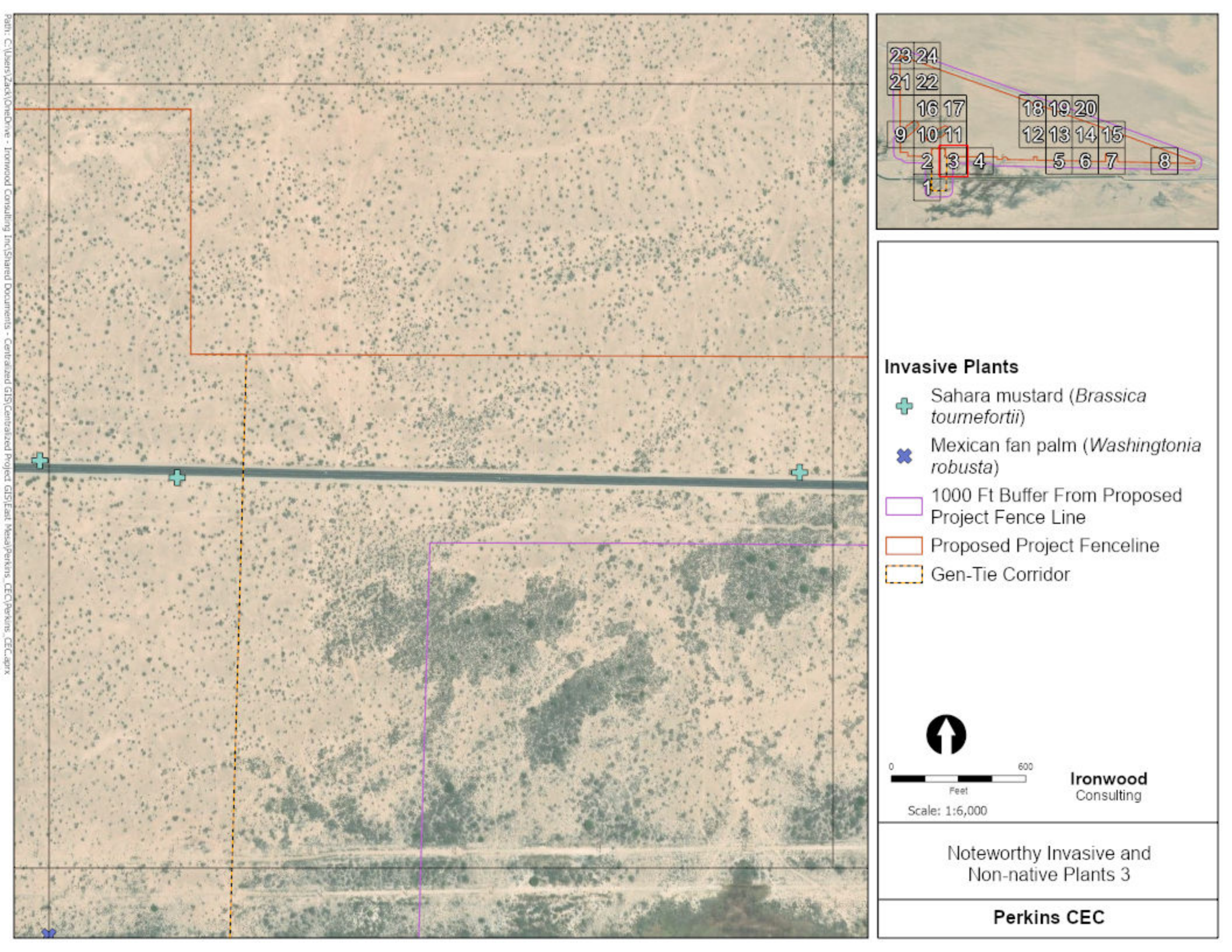
- 1000 Ft Buffer From Proposed Project Fence Line
- Proposed Project Fenceline
- Gen-Tie Corridor

Noteworthy Invasive and
Non-native Plants Overview

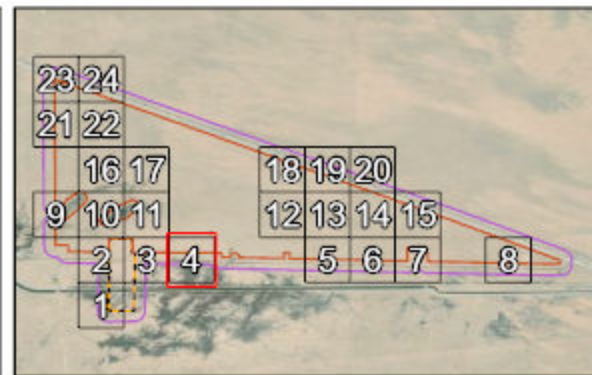
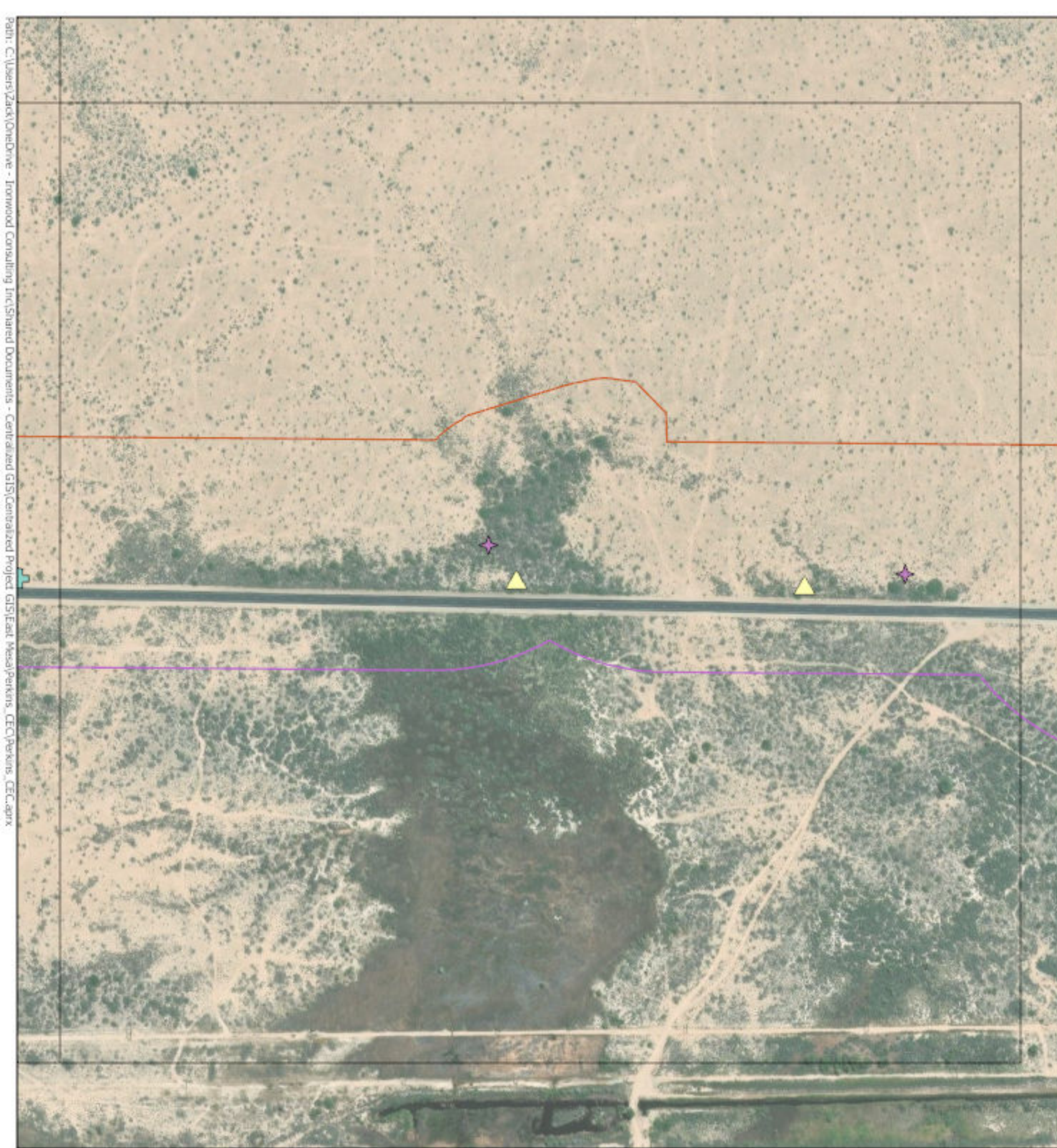
Perkins CEC





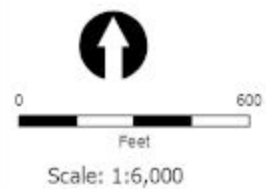


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Invasive Plants

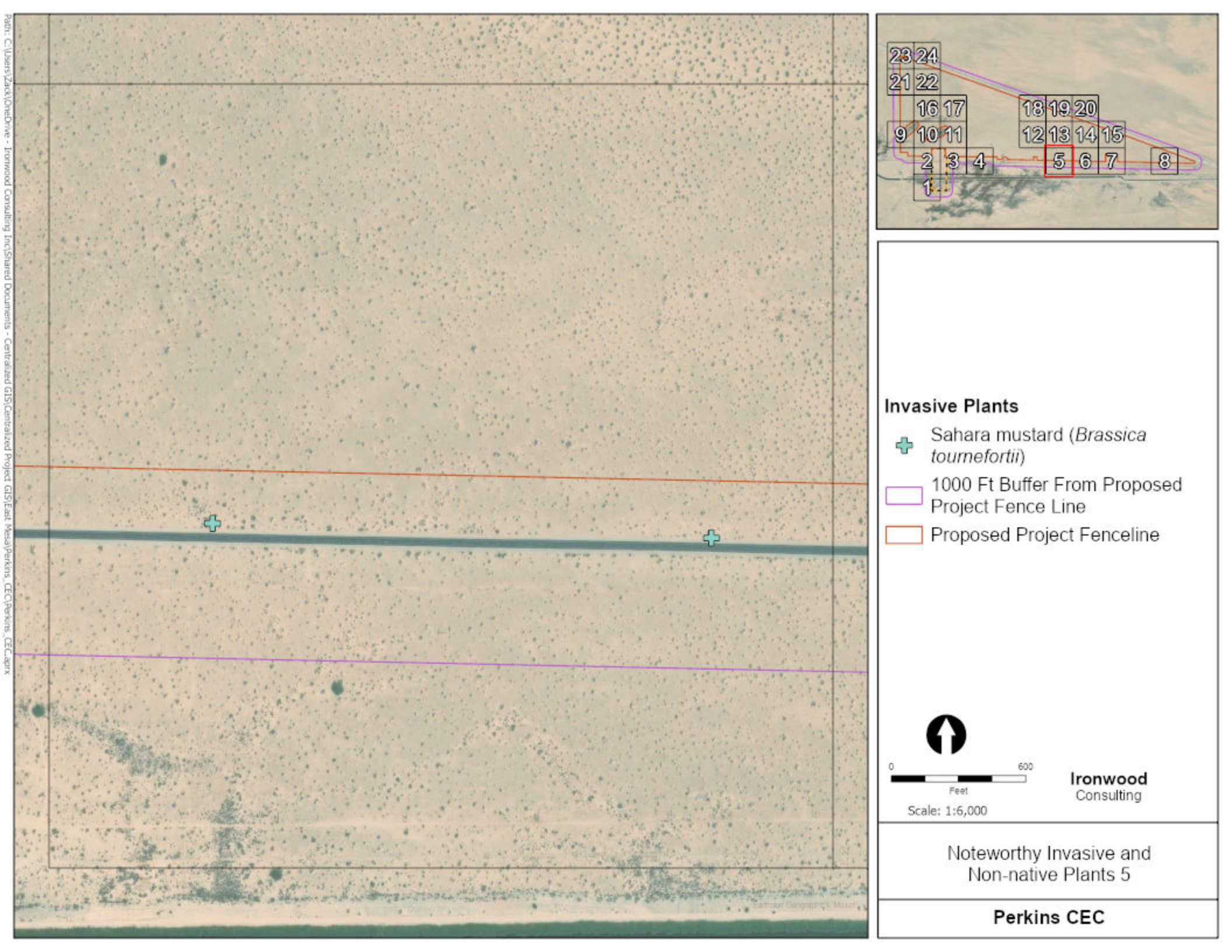
- + Sahara mustard (*Brassica tournefortii*)
- ▲ Bermuda grass (*Cynodon dactylon*)
- ✦ Tamarisk (*Tamarix sp.*)
- 1000 Ft Buffer From Proposed Project Fence Line
- Proposed Project Fenceline



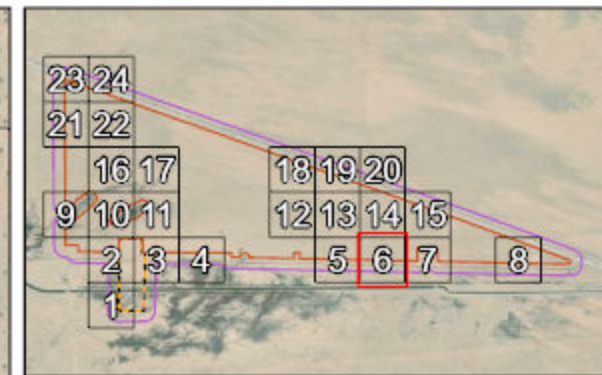
Ironwood
Consulting

Noteworthy Invasive and
Non-native Plants 4

Perkins CEC

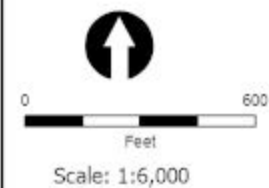


path: C:\Users\Zack\OneDrive - Ironwood Consulting Inc\Shared Documents - Centralized GIS\Centralized Project GIS\East Mesa\Perkins, CEC\Perkins, CEC.aprx



Invasive Plants

- + Sahara mustard (*Brassica tournefortii*)
- 1000 Ft Buffer From Proposed Project Fence Line
- Proposed Project Fenceline

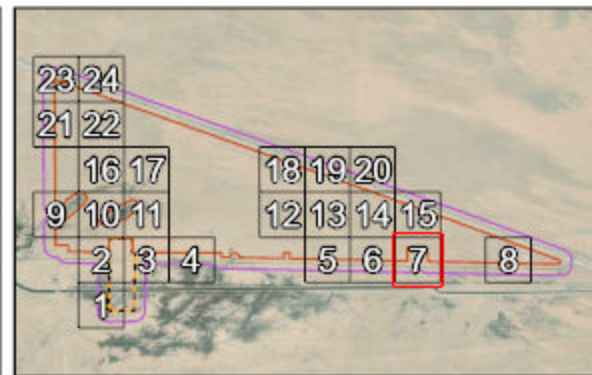


Ironwood
Consulting

Noteworthy Invasive and
Non-native Plants 6

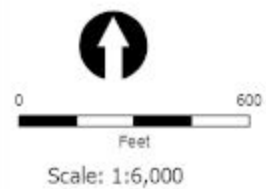
Perkins CEC

Path: C:\Users\Zack\OneDrive - Ironwood Consulting Inc\Shared Documents - Centralized GIS\Centralized Project GIS\East Mesa\Perkins_CEC\aprx



Invasive Plants

-  Sahara mustard (*Brassica tournefortii*)
-  Tamarisk (*Tamarix sp.*)
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline

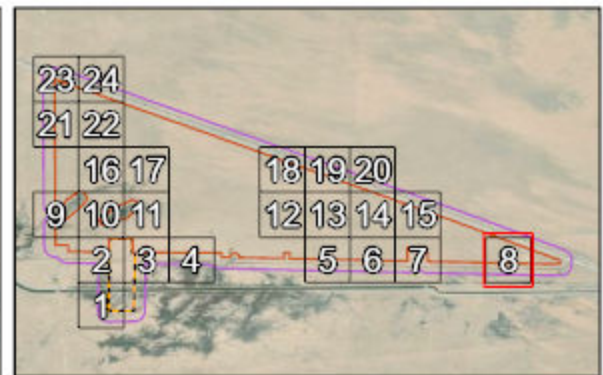
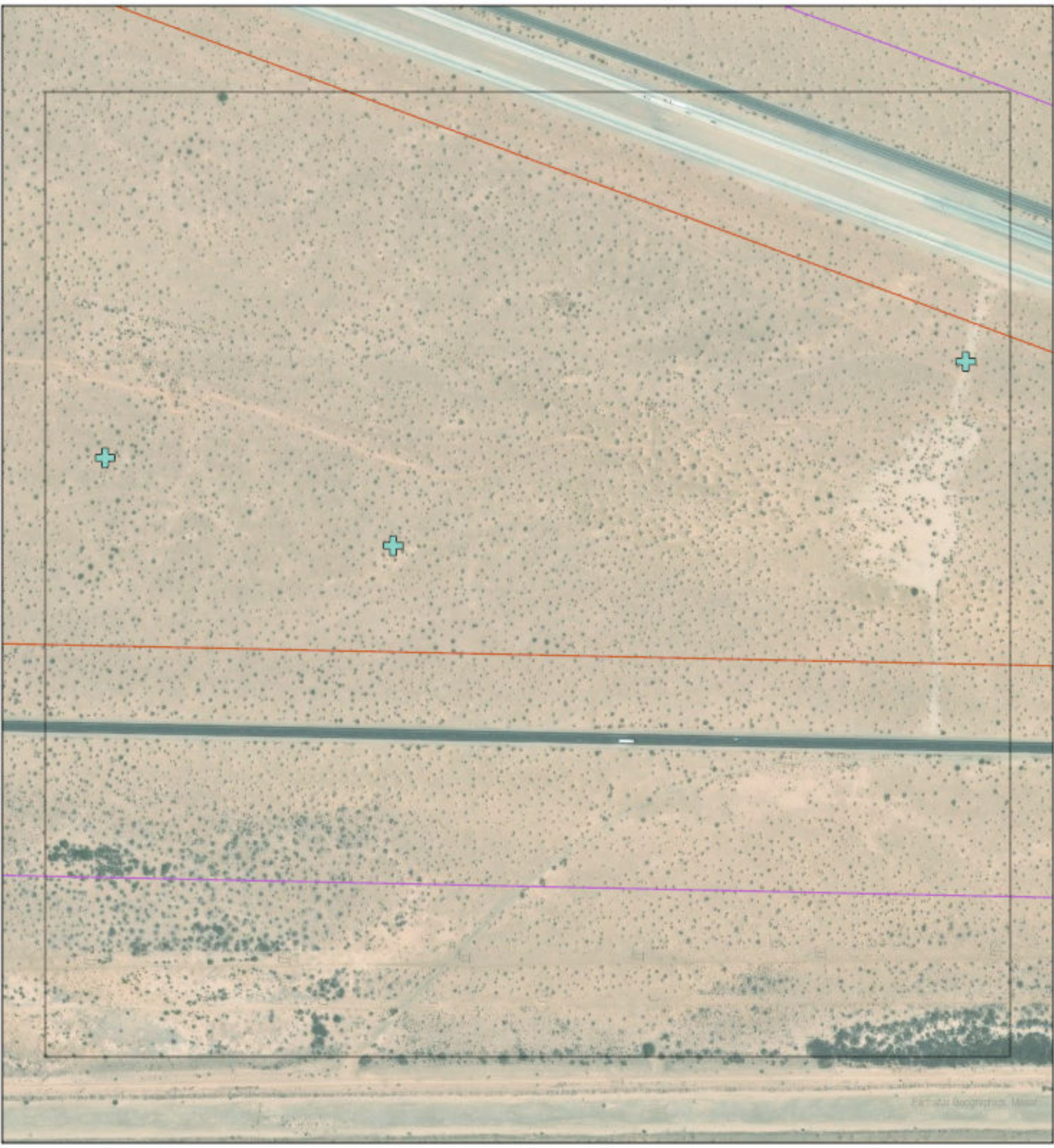


Ironwood
Consulting

Noteworthy Invasive and
Non-native Plants 7

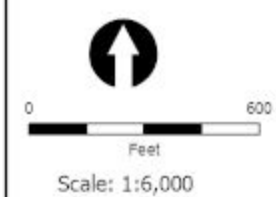
Perkins CEC

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Invasive Plants

-  Sahara mustard (*Brassica tournefortii*)
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline

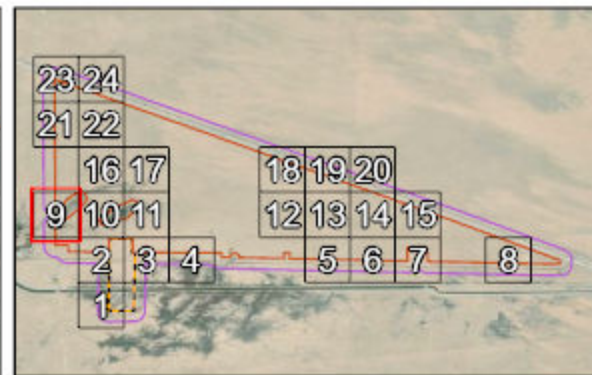
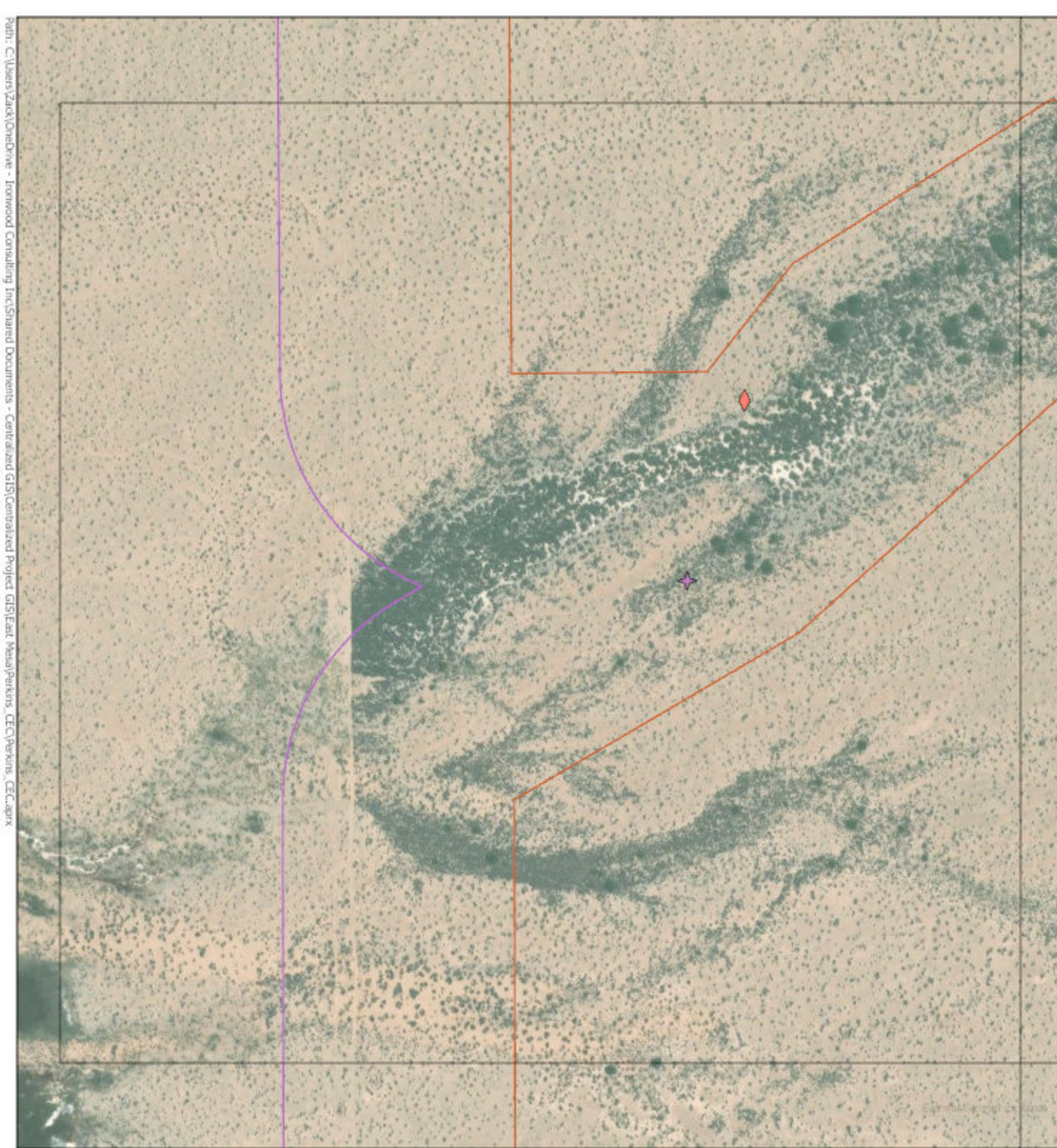


Ironwood
Consulting

Noteworthy Invasive and
Non-native Plants 8

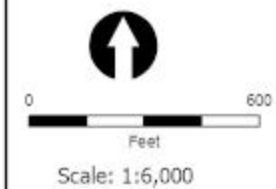
Perkins CEC

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Invasive Plants

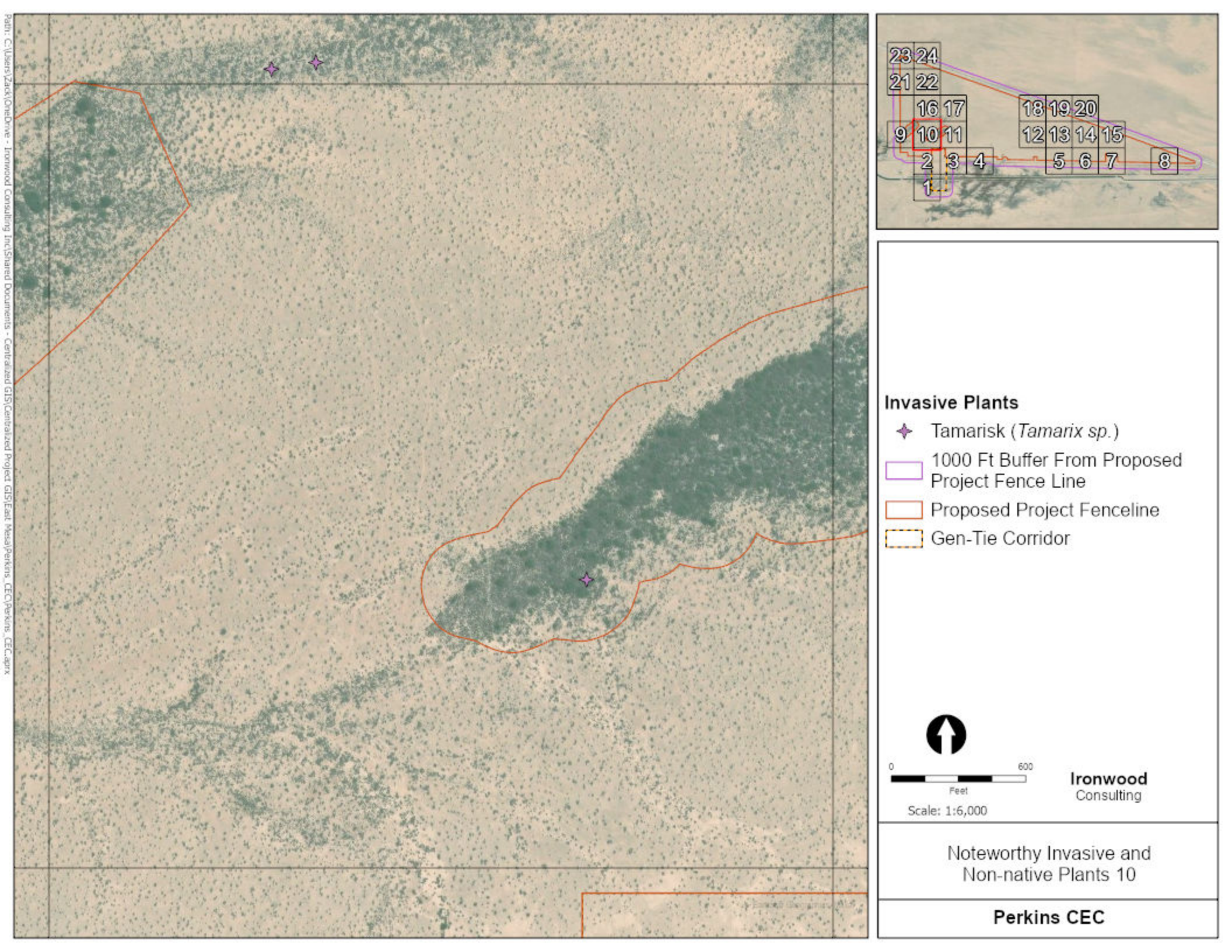
- ◆ Date palm (*Phoenix sp.*)
- ★ Tamarisk (*Tamarix sp.*)
- 1000 Ft Buffer From Proposed Project Fence Line
- Proposed Project Fenceline

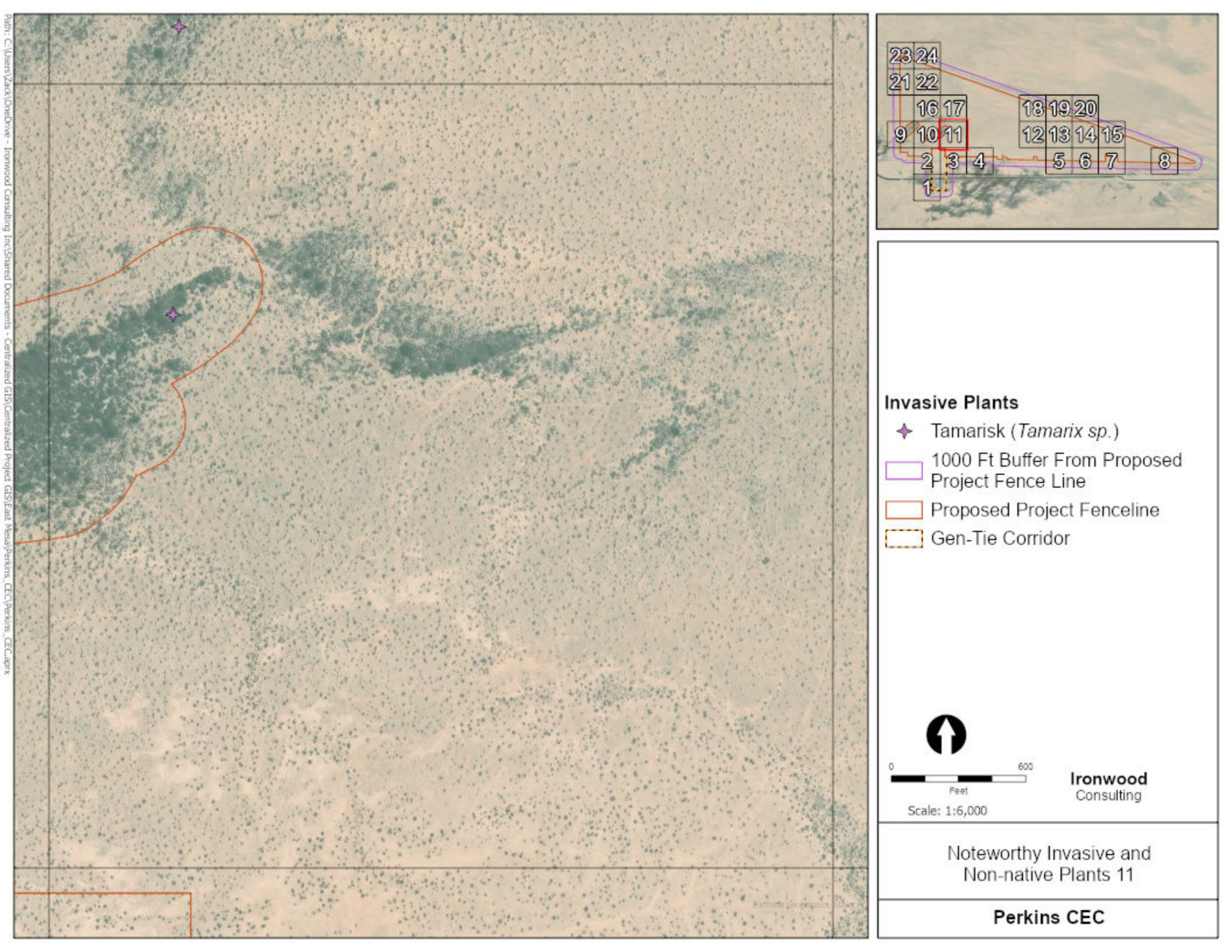


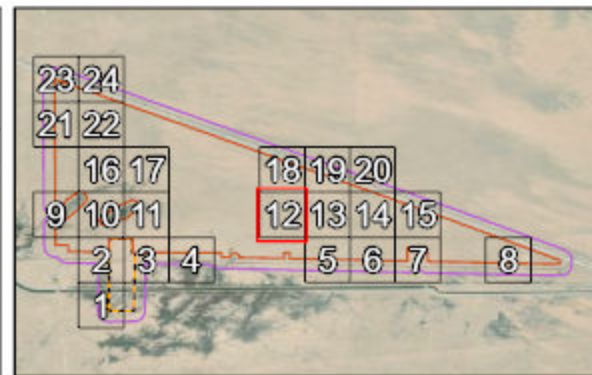
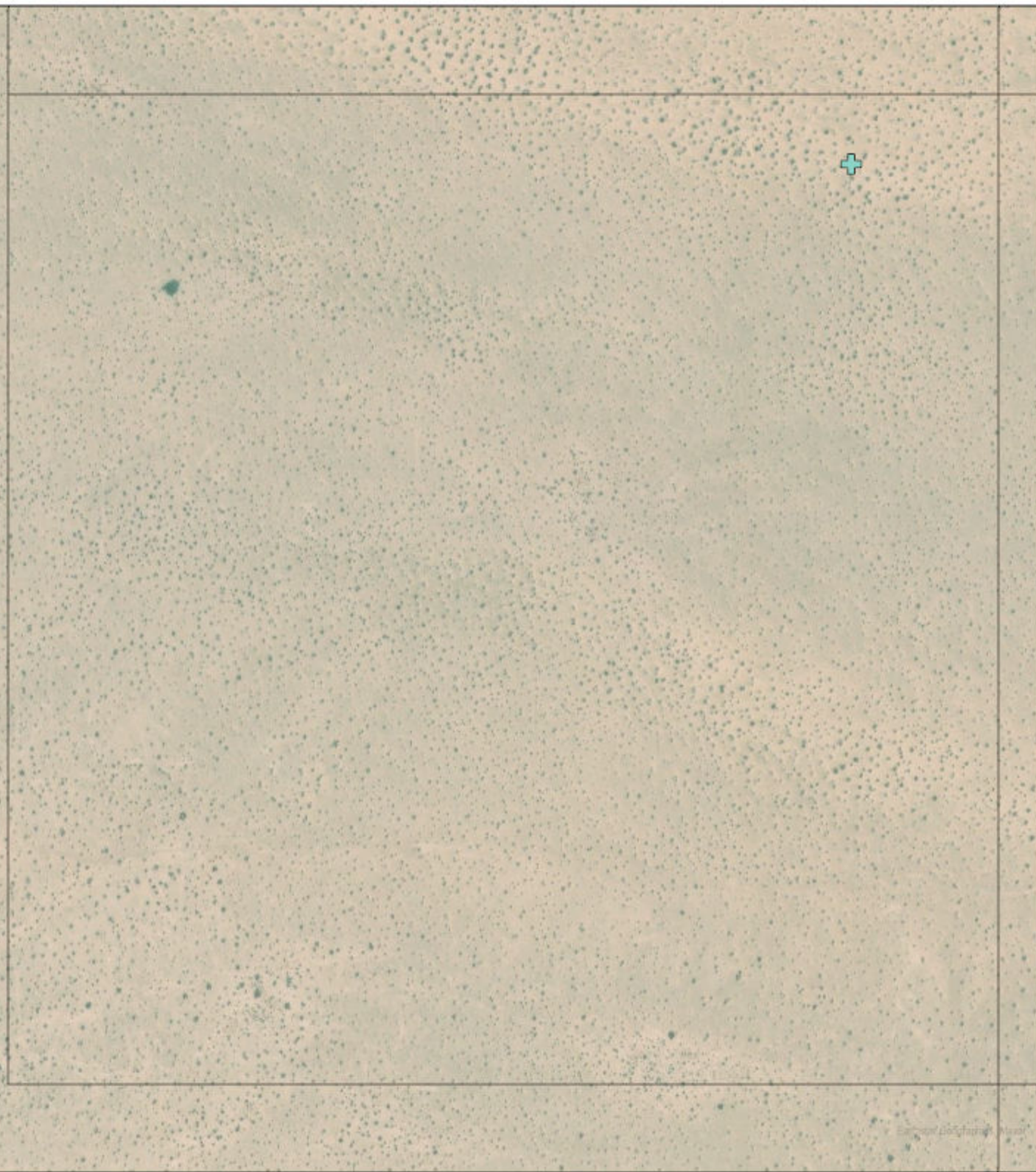
Ironwood
Consulting

Noteworthy Invasive and
Non-native Plants 9

Perkins CEC

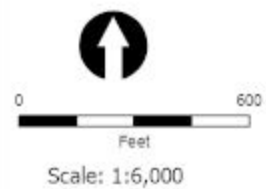






Invasive Plants

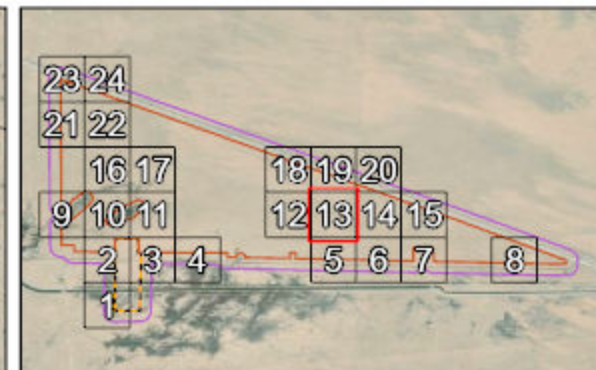
-  Sahara mustard (*Brassica tournefortii*)
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline



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Noteworthy Invasive and
Non-native Plants 12

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Invasive Plants

-  Sahara mustard (*Brassica tournefortii*)
-  Russian thistle (*Salsola tragus*)
-  Mediterranean grass (*Schismus barbatus*)
-  Spiny sowthistle (*Sonchus asper*)
-  Tamarisk (*Tamarix sp.*)
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline

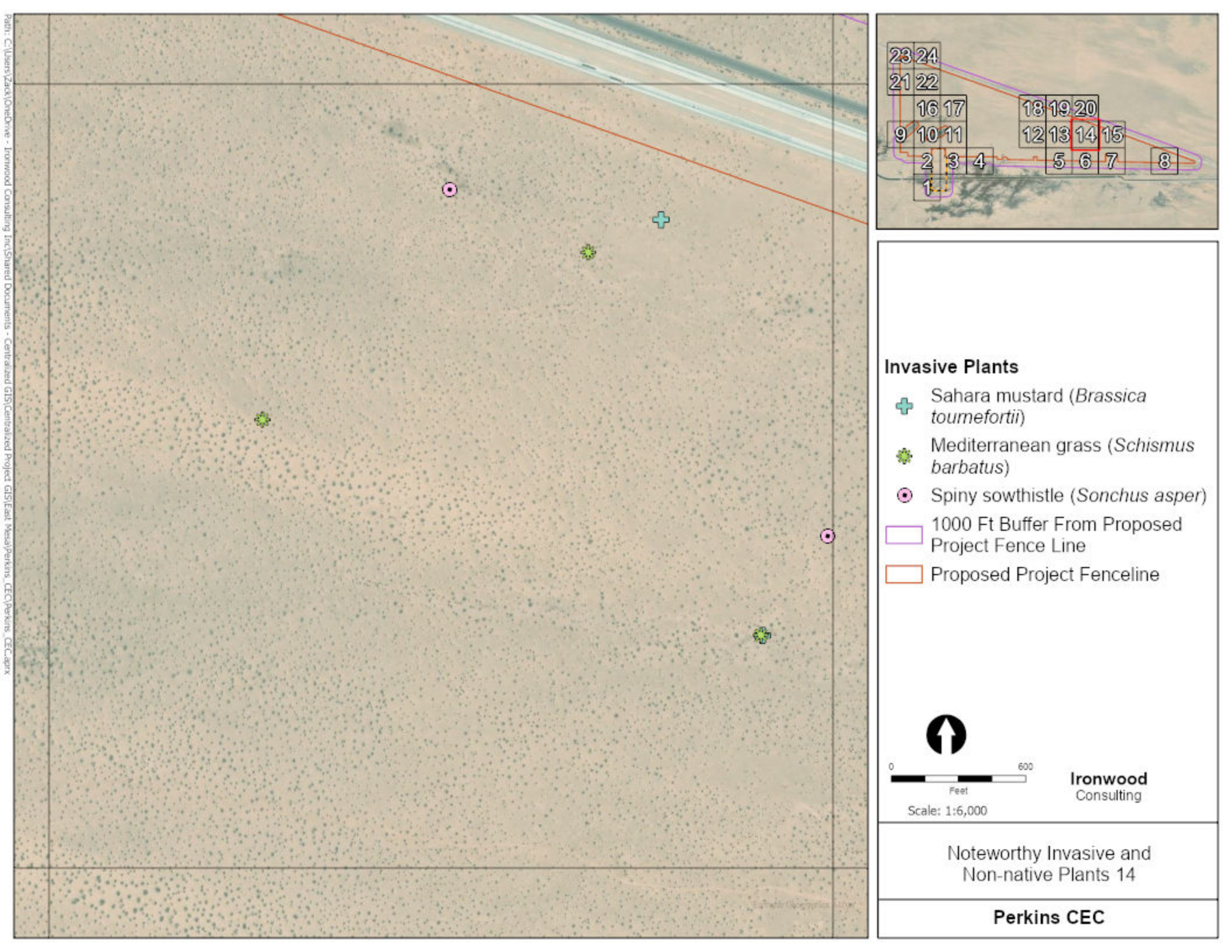


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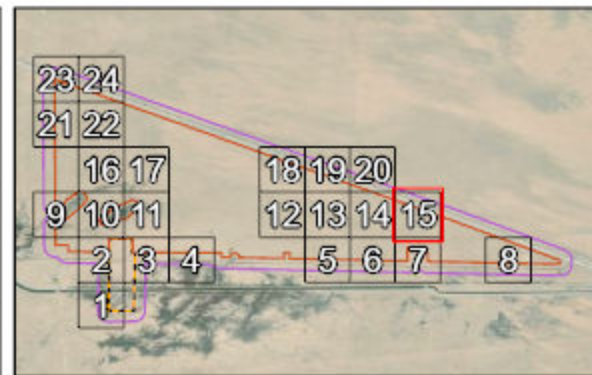
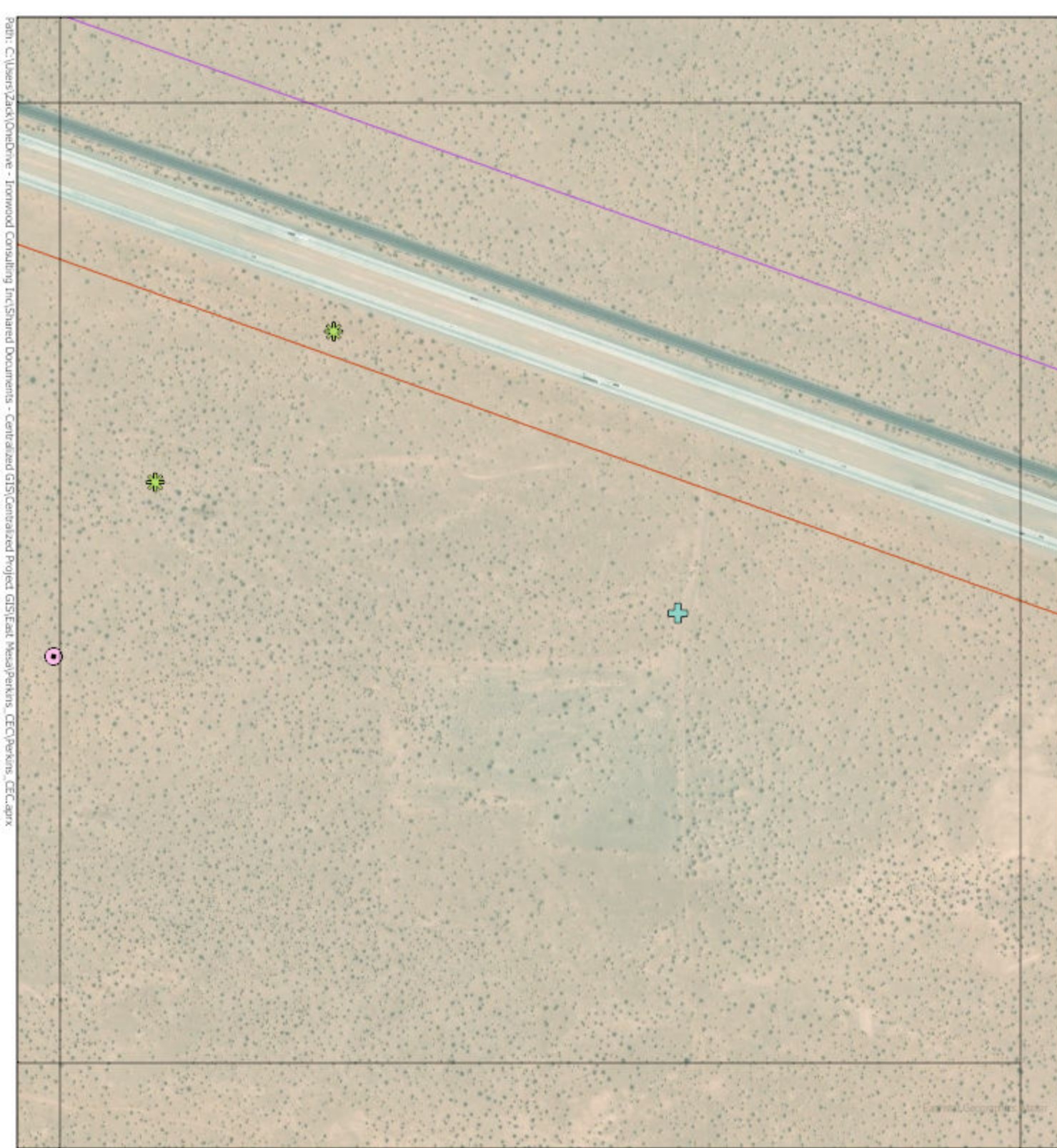
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Noteworthy Invasive and
Non-native Plants 13

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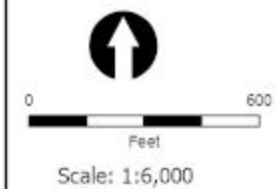


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Invasive Plants

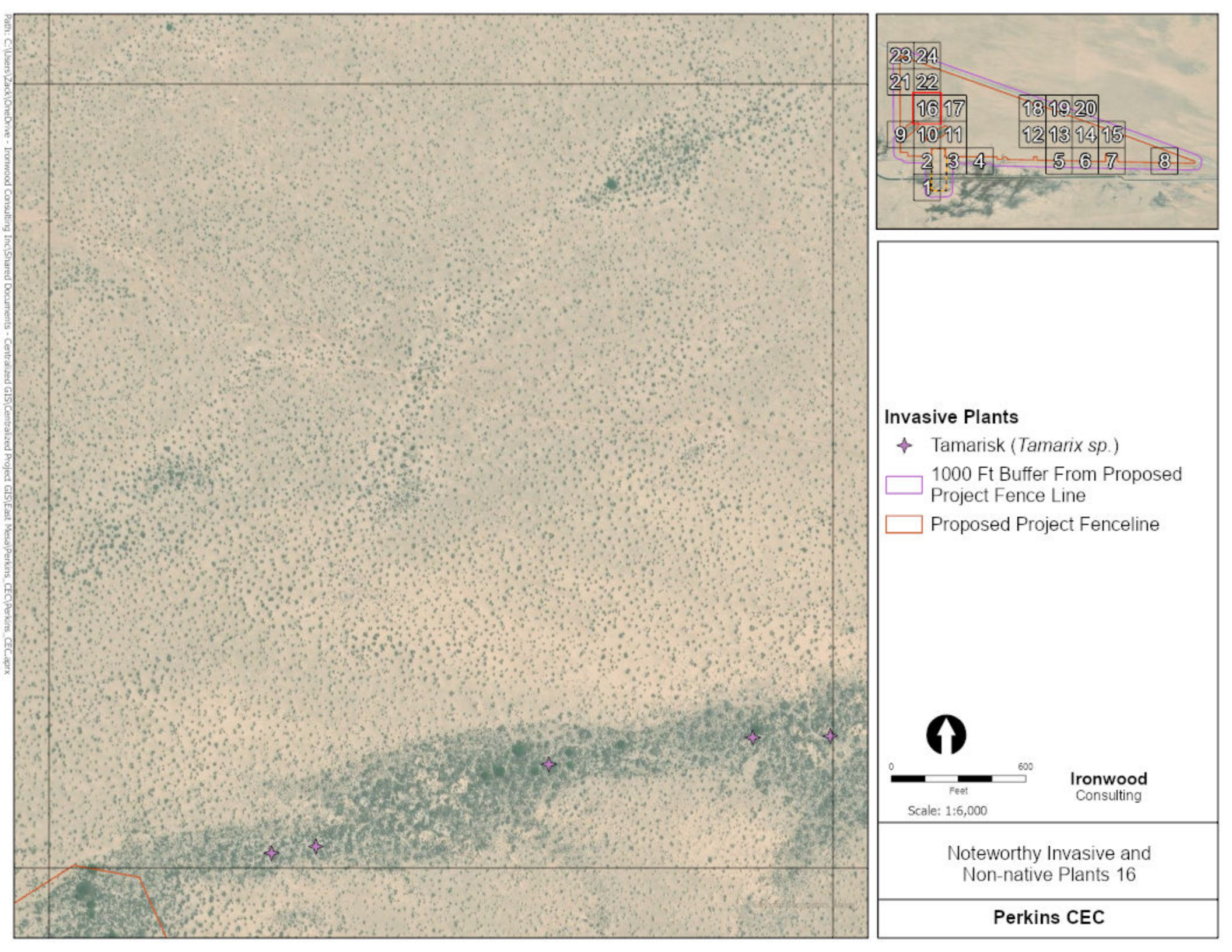
-  Sahara mustard (*Brassica tournefortii*)
-  Mediterranean grass (*Schismus barbatus*)
-  Spiny sowthistle (*Sonchus asper*)
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline

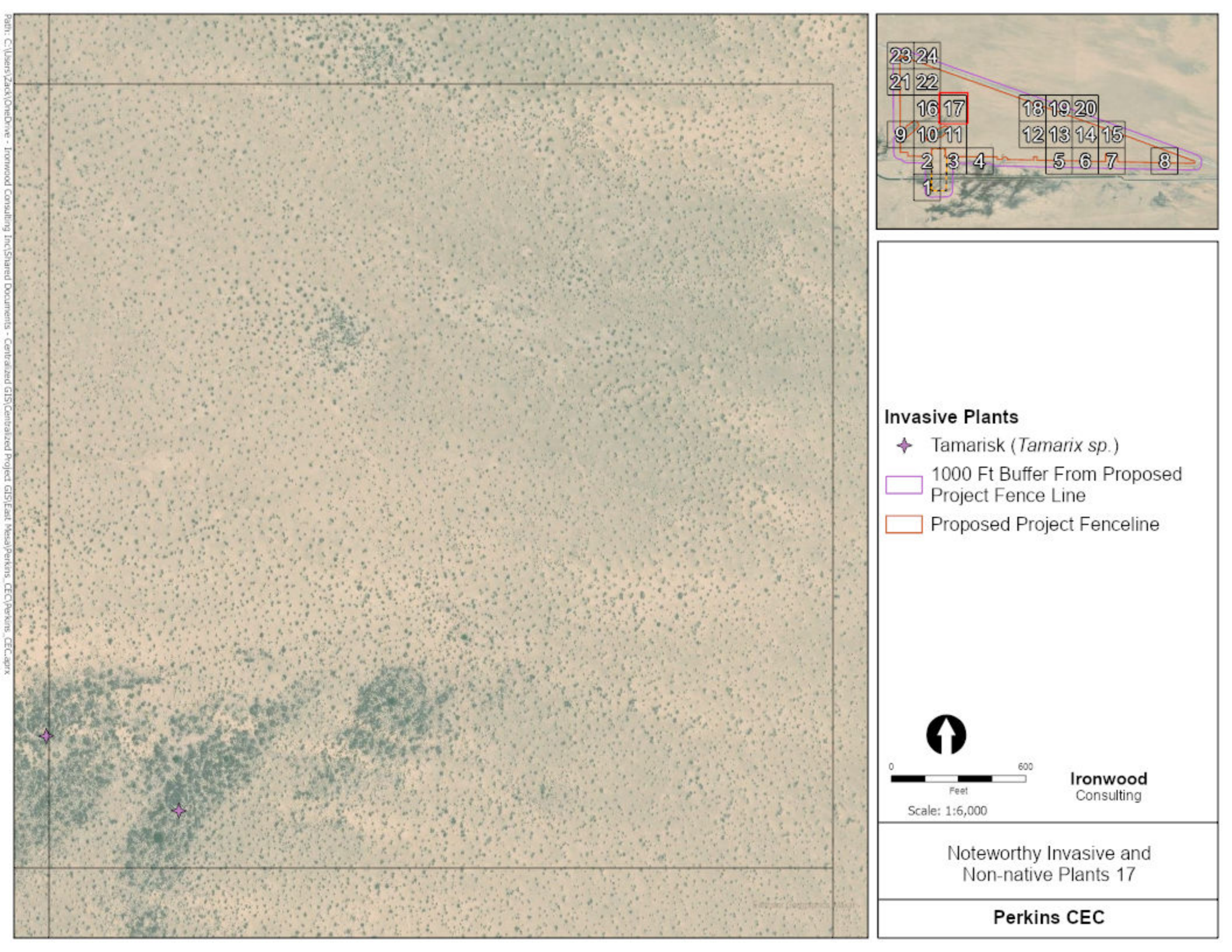


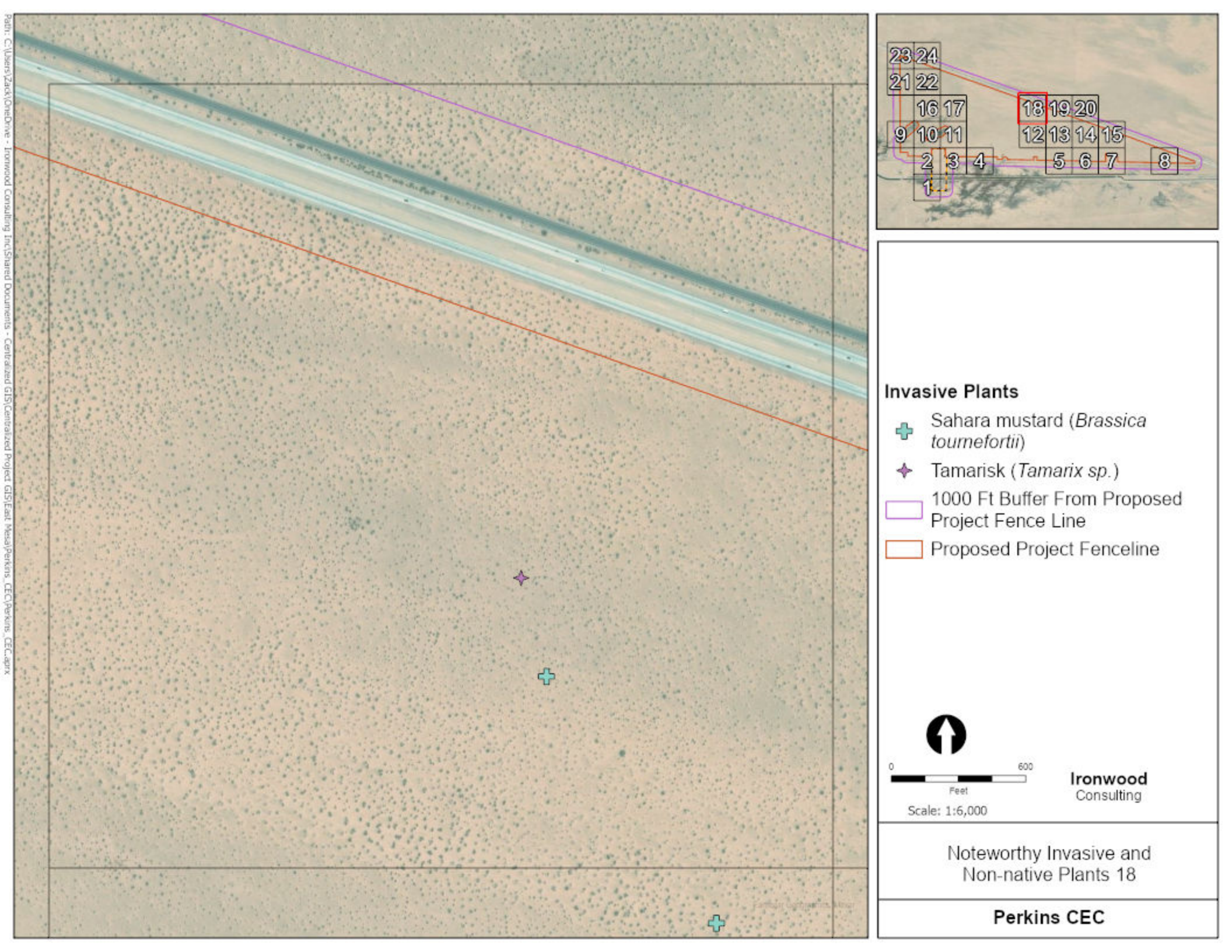
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Consulting

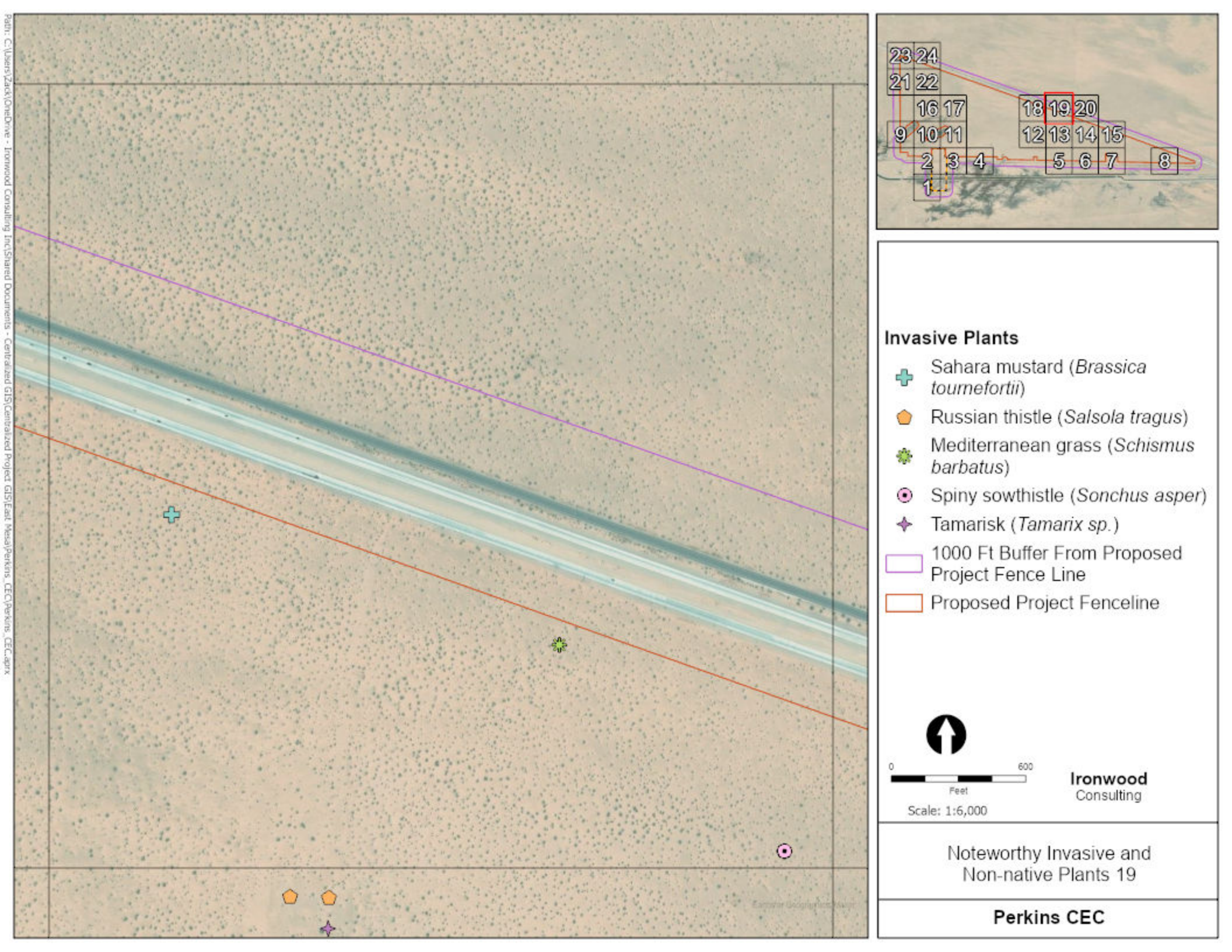
Noteworthy Invasive and
Non-native Plants 15

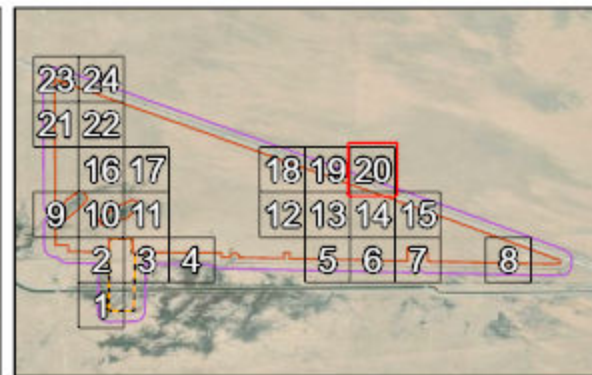
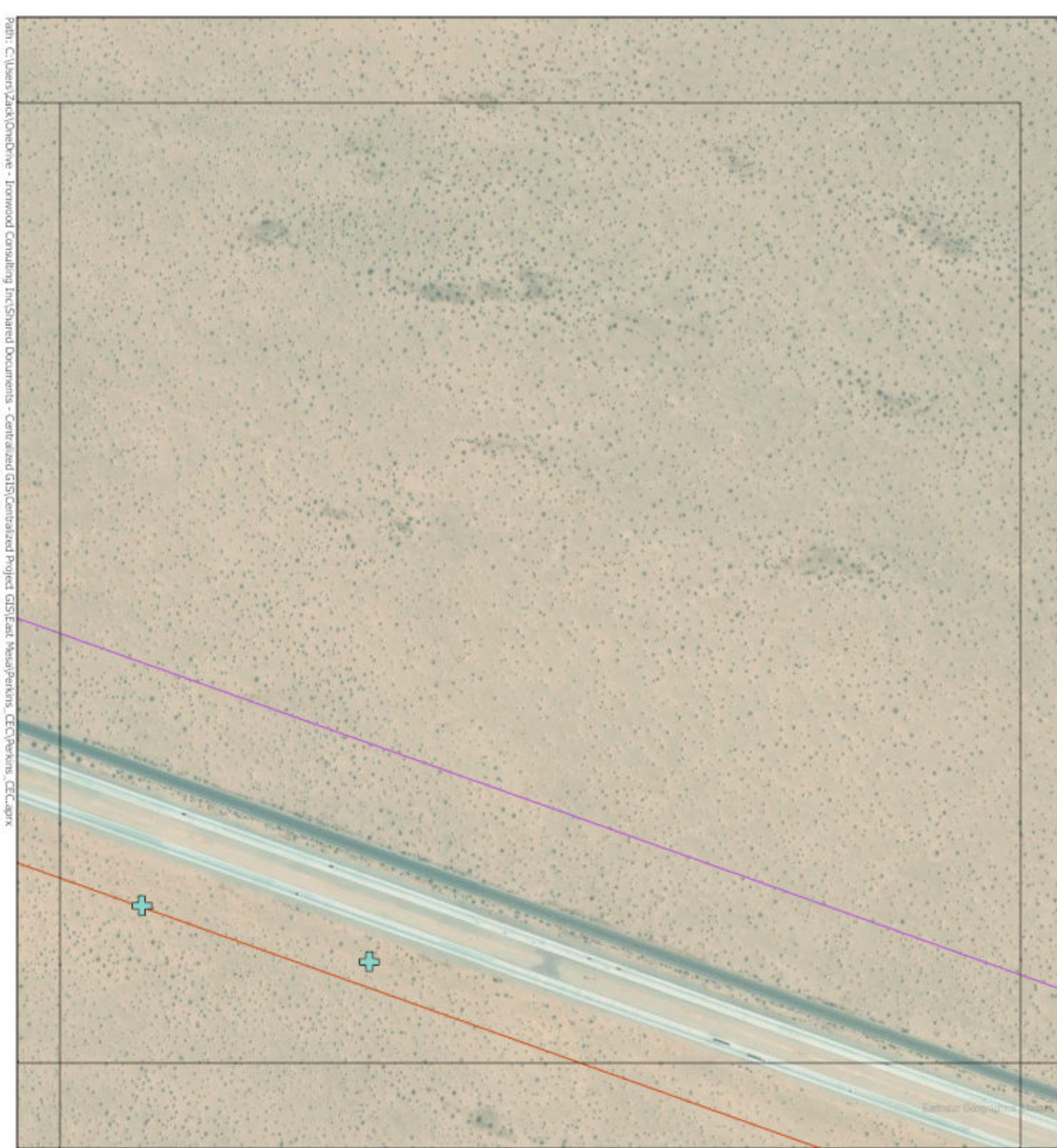
Perkins CEC





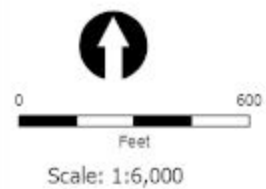






Invasive Plants

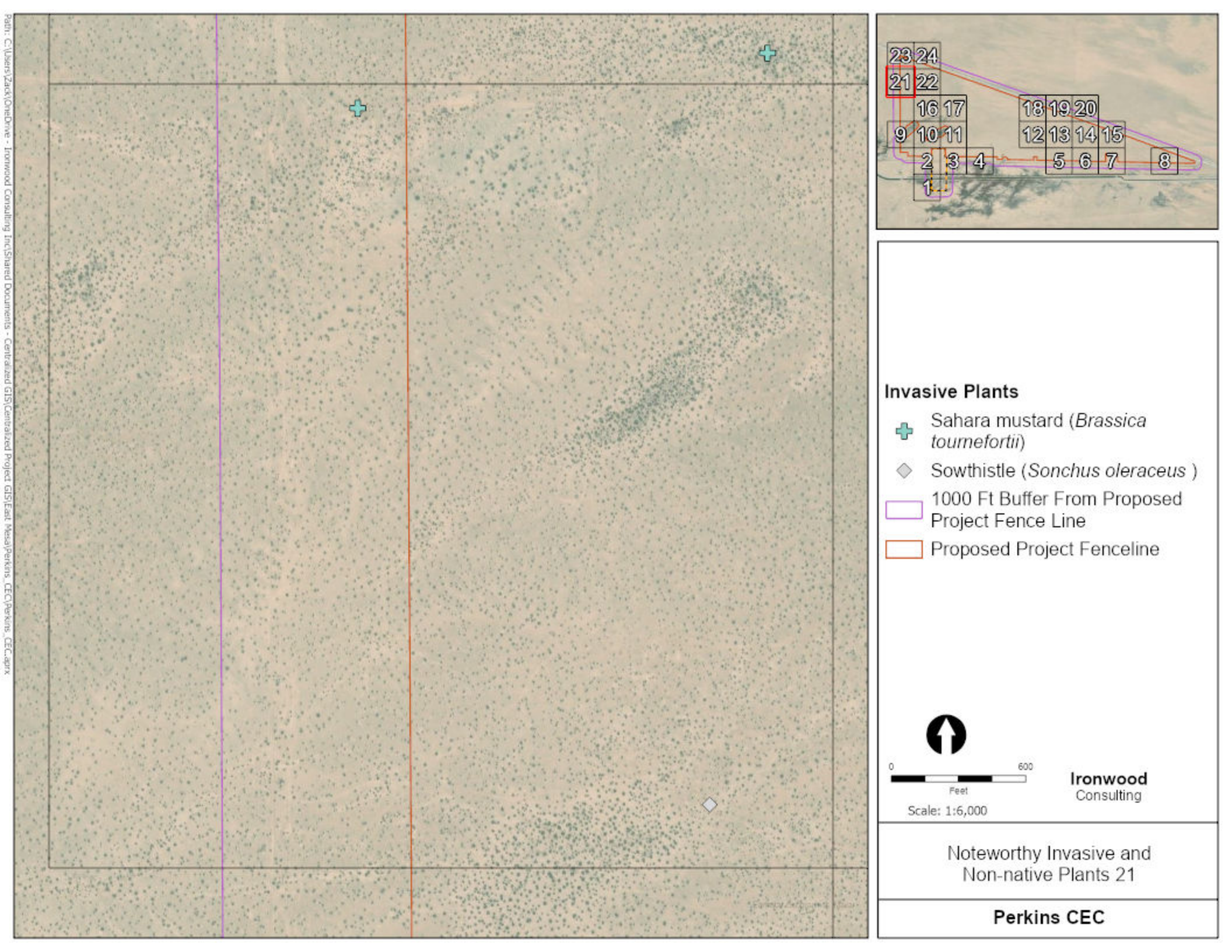
-  Sahara mustard (*Brassica tournefortii*)
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline

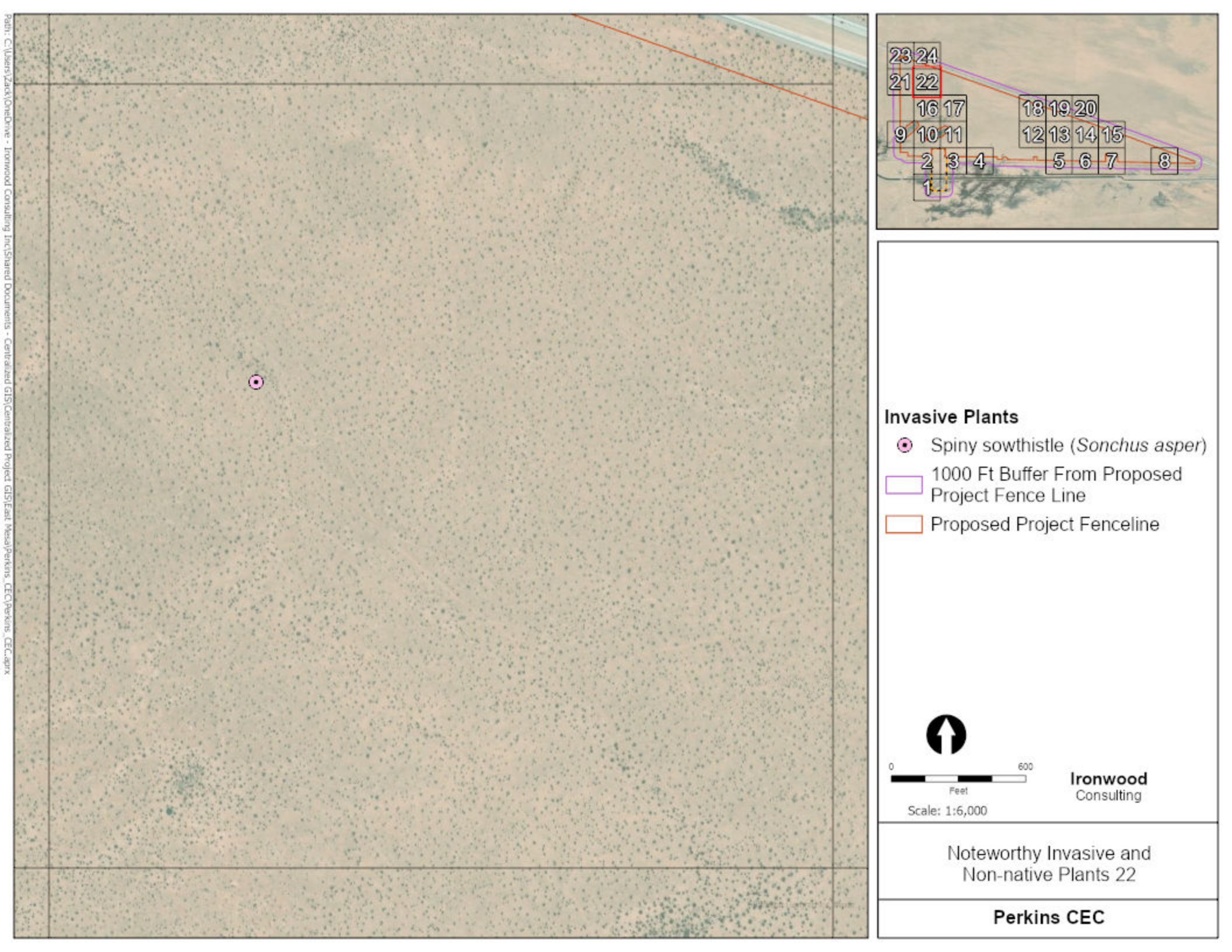


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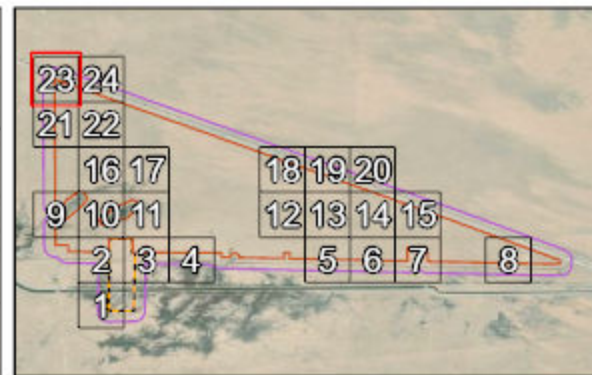
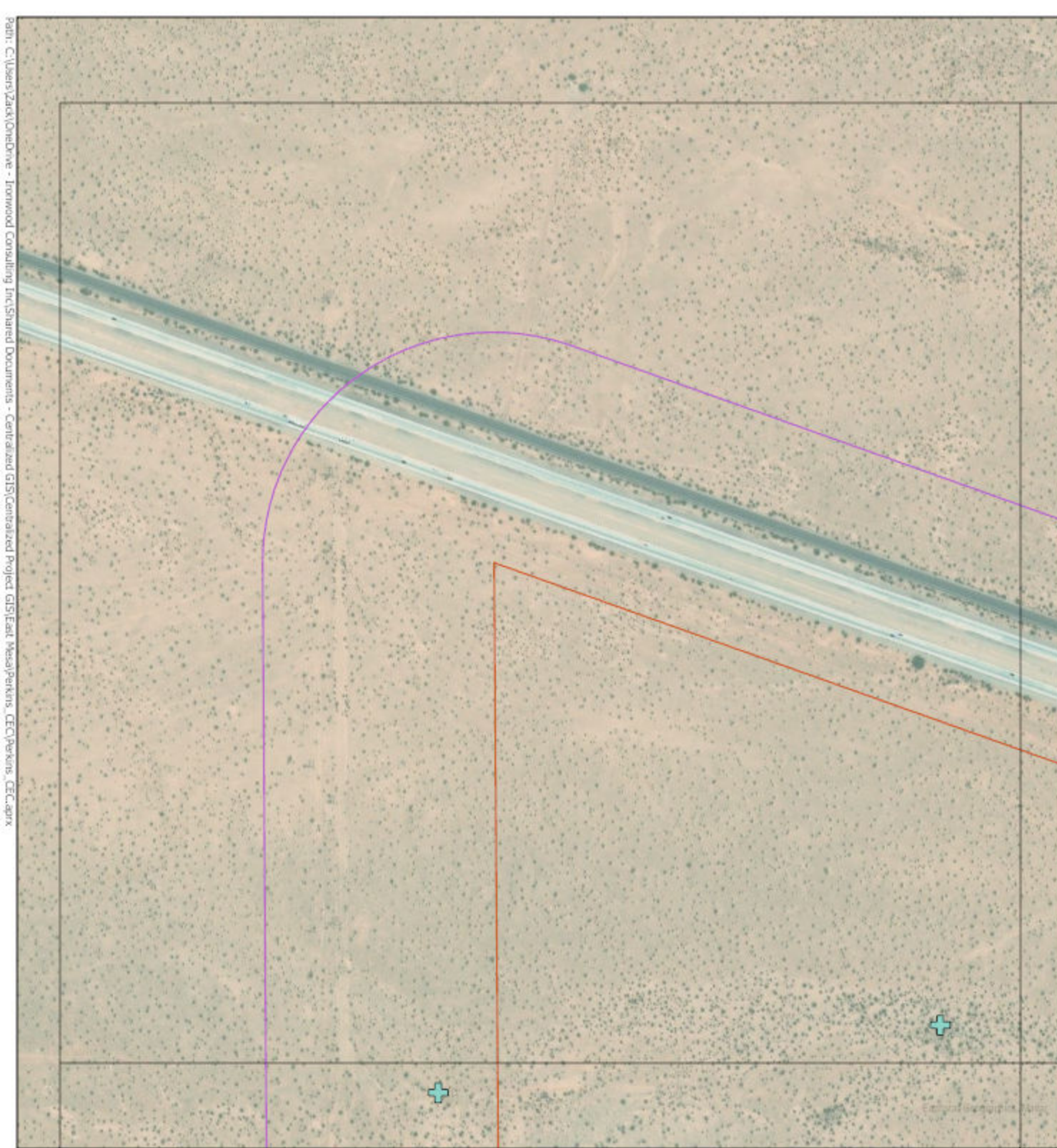
Noteworthy Invasive and Non-native Plants 20

Perkins CEC



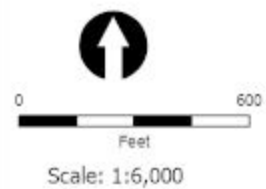


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Invasive Plants

-  Sahara mustard (*Brassica tournefortii*)
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline

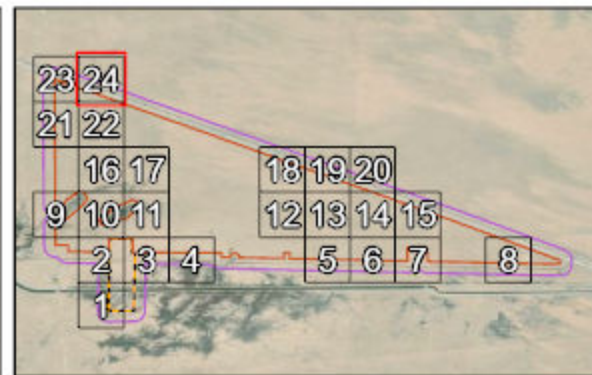
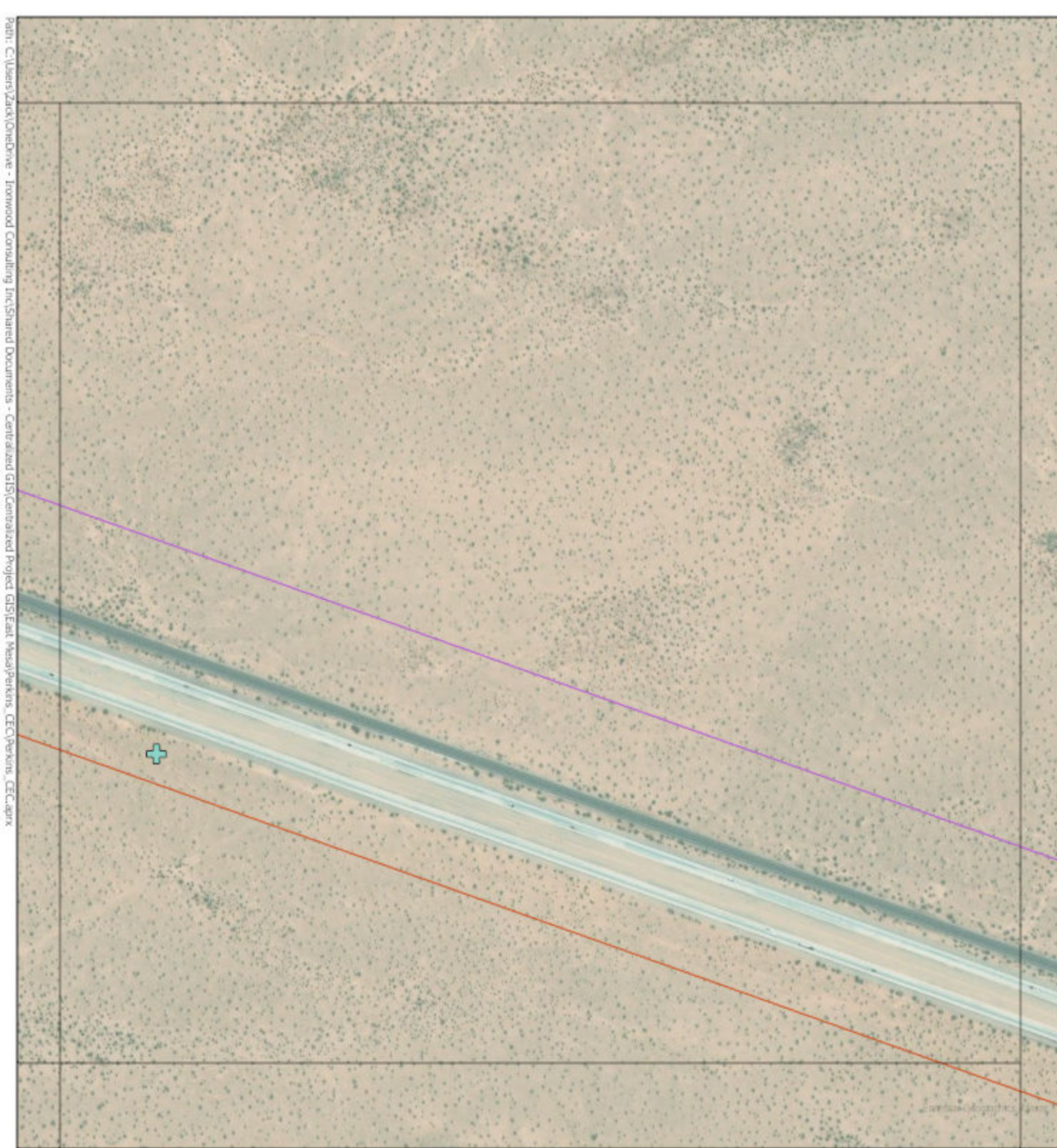


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Noteworthy Invasive and
Non-native Plants 23

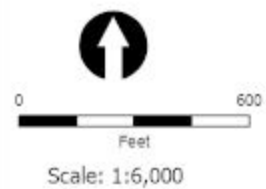
Perkins CEC

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Invasive Plants

-  Sahara mustard (*Brassica tournefortii*)
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline



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Noteworthy Invasive and
Non-native Plants 24

Perkins CEC