

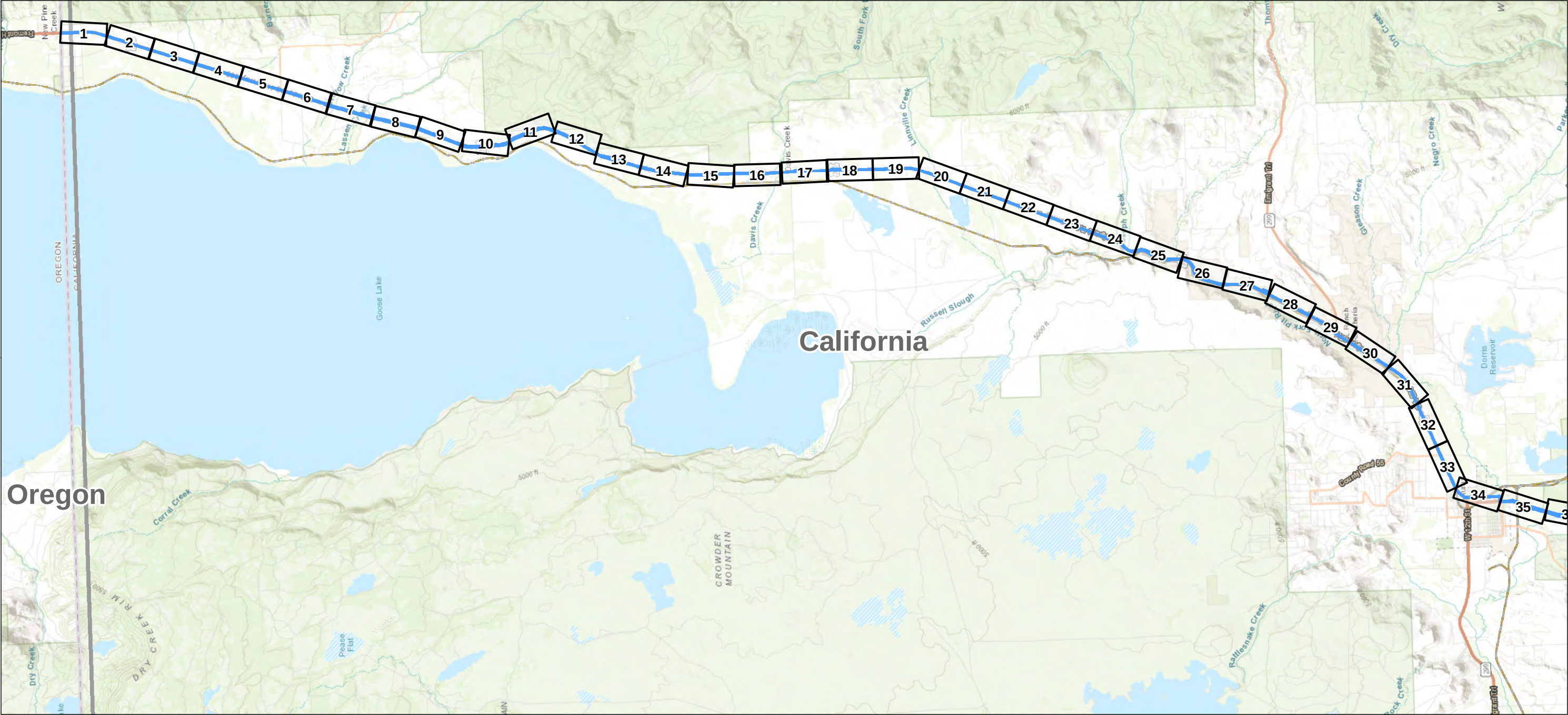
PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

Botanical Resources Report
September 16, 2020

FIGURES

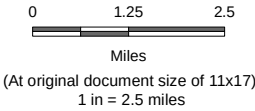
CONTAINS CONFIDENTIAL INFORMATION – NOT FOR GENERAL DISTRIBUTION

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Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
2. Background: ESRI World Topographic Map web mapping service

 Botanical Survey Area



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-14
TR by ST on 2020-08-17
IR by CS on 2020-08-18

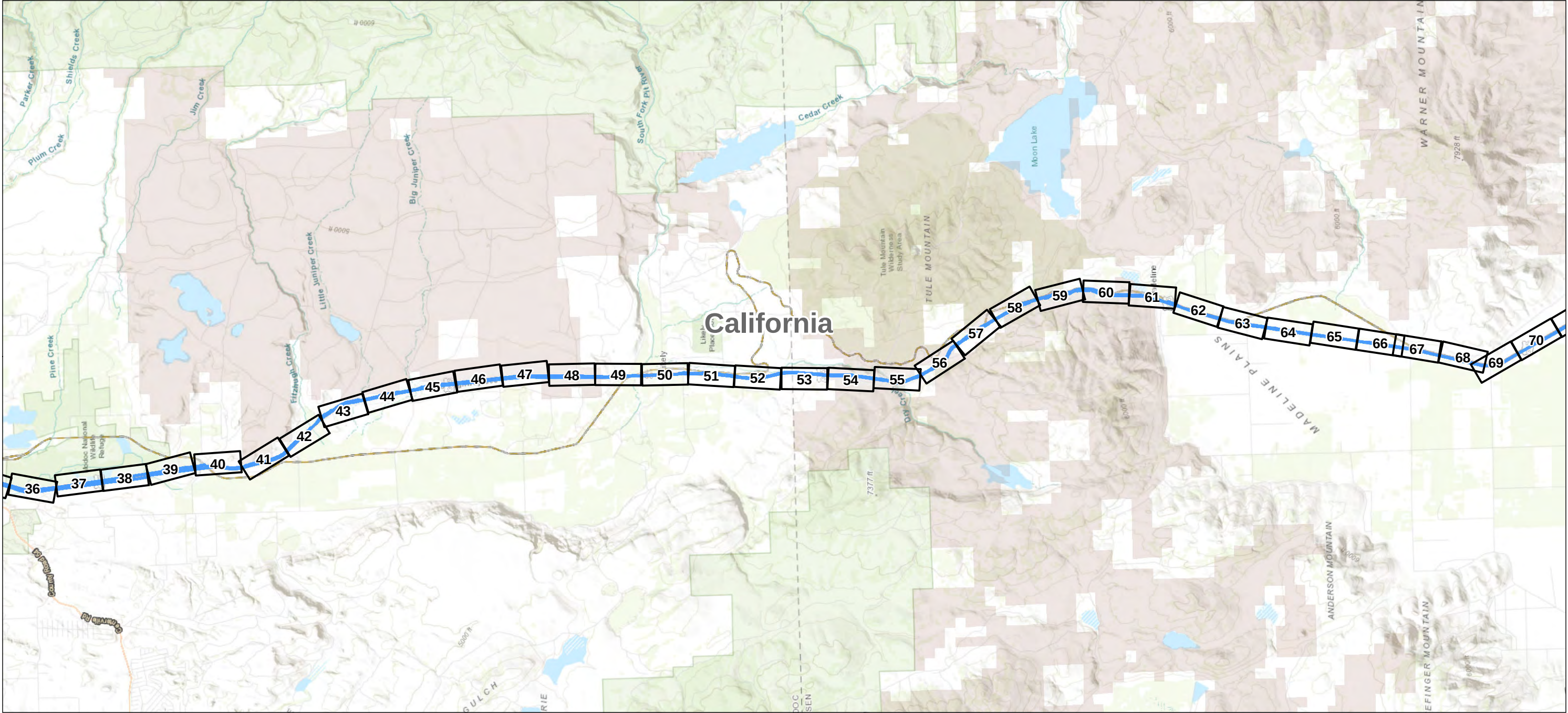
Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

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Figure No.
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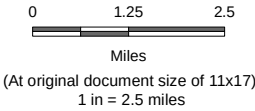
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Special-Status Plant Occurrences

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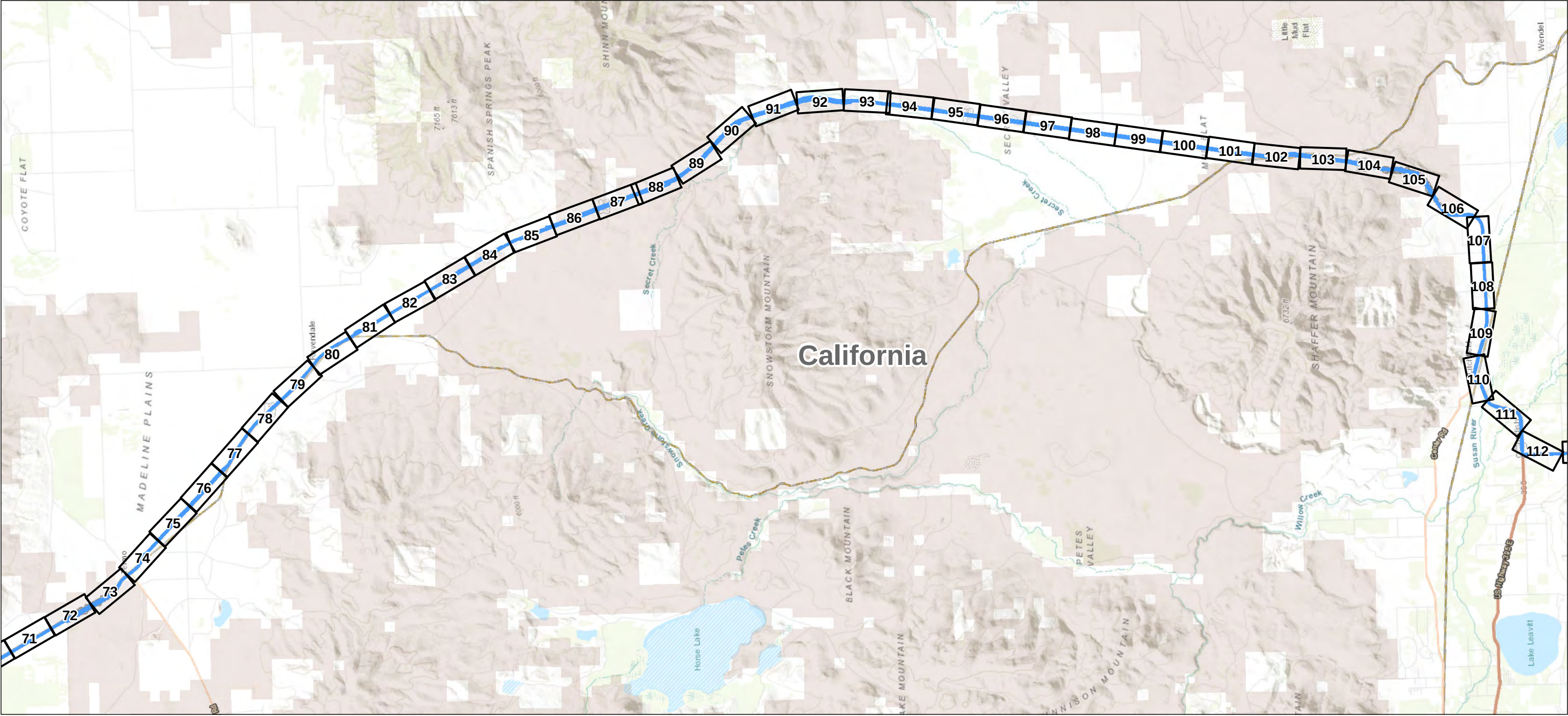
Client/Project
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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

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Figure No.
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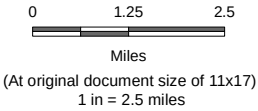
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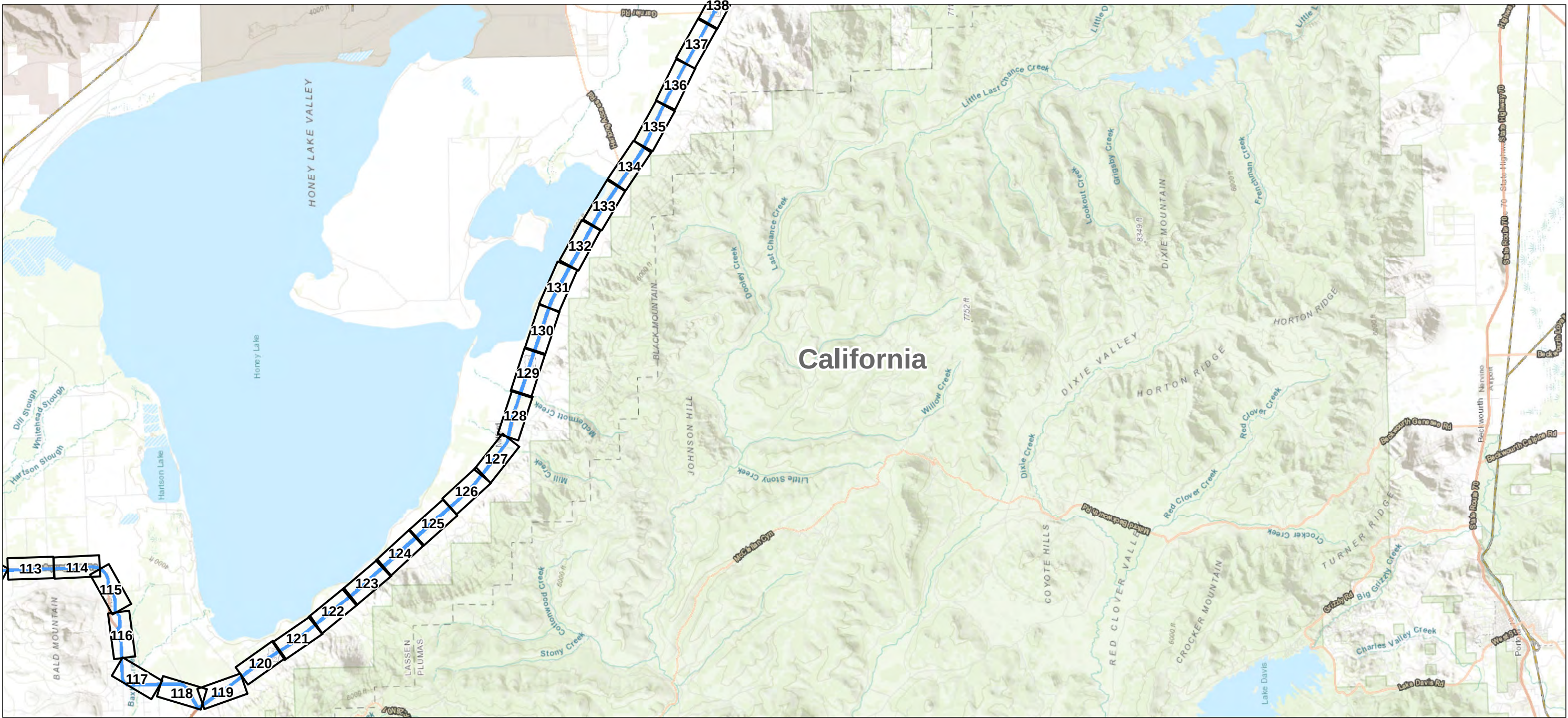
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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

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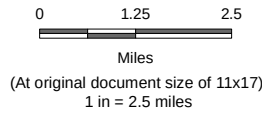
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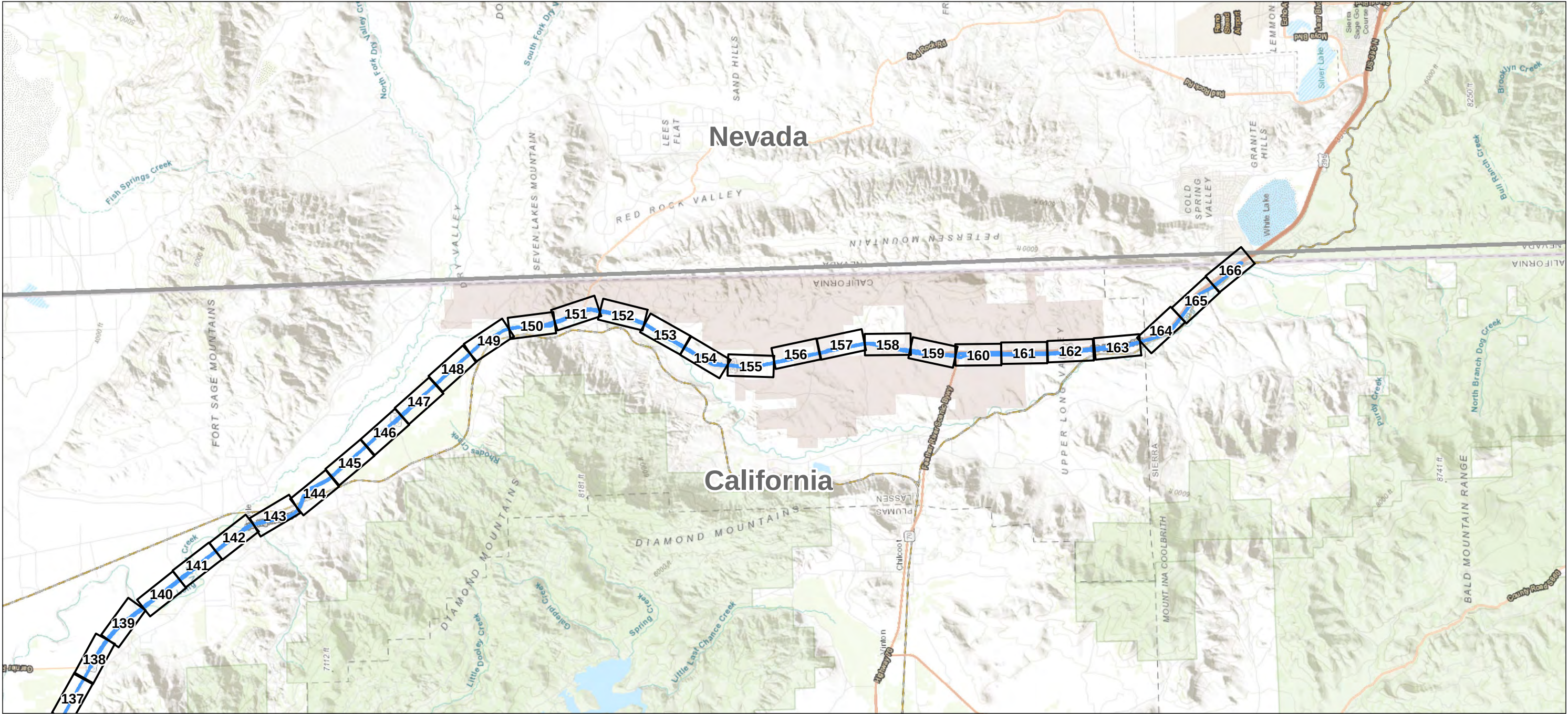
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Botanical Resources Report

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Figure No.
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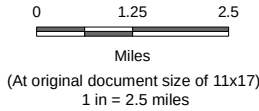
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Botanical Resources Report

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Figure No.
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Special-Status Plant Occurrences

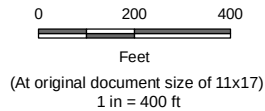


Notes
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- Botanical Survey Area
- CDFW
- BLM
- USFWS
- Special-Status Plants**
- ALPU (*Allium punctum*)
- ARFU (*Arnica fulgens*)
- ASAG (*Astragalus agrestis*)
- ASIOD (*Astragalus iodonanthus* var. *diaphanoides*)
- ASPUC (*Astragalus pulsifer* var. *coronensis*)
- ATGAF (*Atriplex gardneri* var. *falcata*)
- CAAT (*Carex atherodes*)
- CASH (*Carex sheldonii*)
- CHCLC (*Chylismia claviformis* ssp. *cruciformis*)
- DOLA (*Downingia laeta*)

- ERBOA (*Eremothera boothii* var. *alyssooides*)
- EREAN (*Erigeron eatonii* var. *nevadincola*)
- EREL (*Erigeron elegantulus*)
- ERCO (*Eriogonum collinum*)
- ERNUN (*Eriogonum nutans* var. *nutans*)
- ERIN (*Erythranthe inflatula*)
- FRALM (*Frasera albicaulis* var. *modocensis*)
- HACU (*Hackelia cusickii*)
- HYLE (*Hymenoxys lemmonii*)
- LALA (*Ladeania lanceolata*)
- LARI (*Lathyrus rigidus*)
- LOCA (*Lomatium canbyi*)
- LORAR (*Lomatium ravenii* var. *ravenii*)
- LORO (*Lomatium roseanum*)
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- STVI (*Stanleya viridiflora*)
- STLAL (*Stenotus lanuginosus* var. *lanuginosus*)
- THMI (*Thelypodium milleflorum*)
- TRGYP (*Trifolium gymnocarpon* ssp. *plummerae*)
- VIPUA (*Viola purpurea* ssp. *aurea*)



Project Location
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IR by CS on 2020-08-31

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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

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Figure No.
4

Title
Special-Status Plant Occurrences



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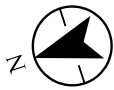
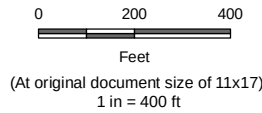
- Botanical Survey Area
- CDFW
- BLM
- USFWS

Special-Status Plants

- ALPU (*Allium punctum*)
- ARFU (*Arnica fulgens*)
- ASAG (*Astragalus agrestis*)
- ASIOD (*Astragalus iodonanthus* var. *diaphanoides*)
- ASPUC (*Astragalus pulsiferae* var. *coronensis*)
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- TRGYP (*Trifolium gymnocarpon* ssp. *plummerae*)
- VIPUA (*Viola purpurea* ssp. *aurea*)



Project Location
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IR by CS on 2020-08-31

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Prineville to Reno Fiber Optic Project (California)

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Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences



Notes
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Prineville to Reno Fiber Optic Project (California)

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Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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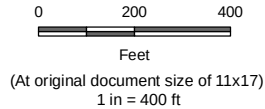


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Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No. 4

Title

Special-Status Plant Occurrences



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Botanical Resources Report

Figure No.
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Special-Status Plant Occurrences

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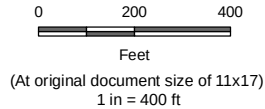


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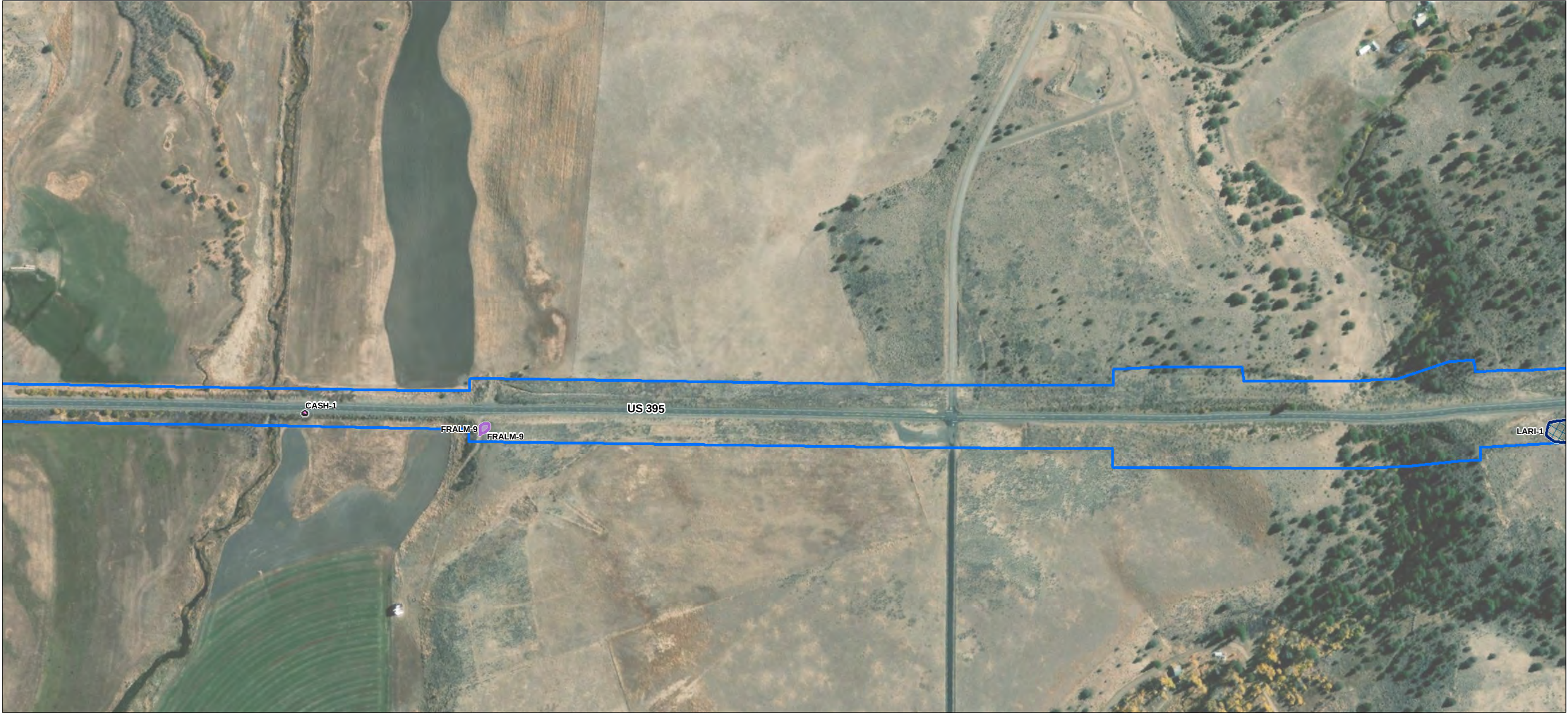
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Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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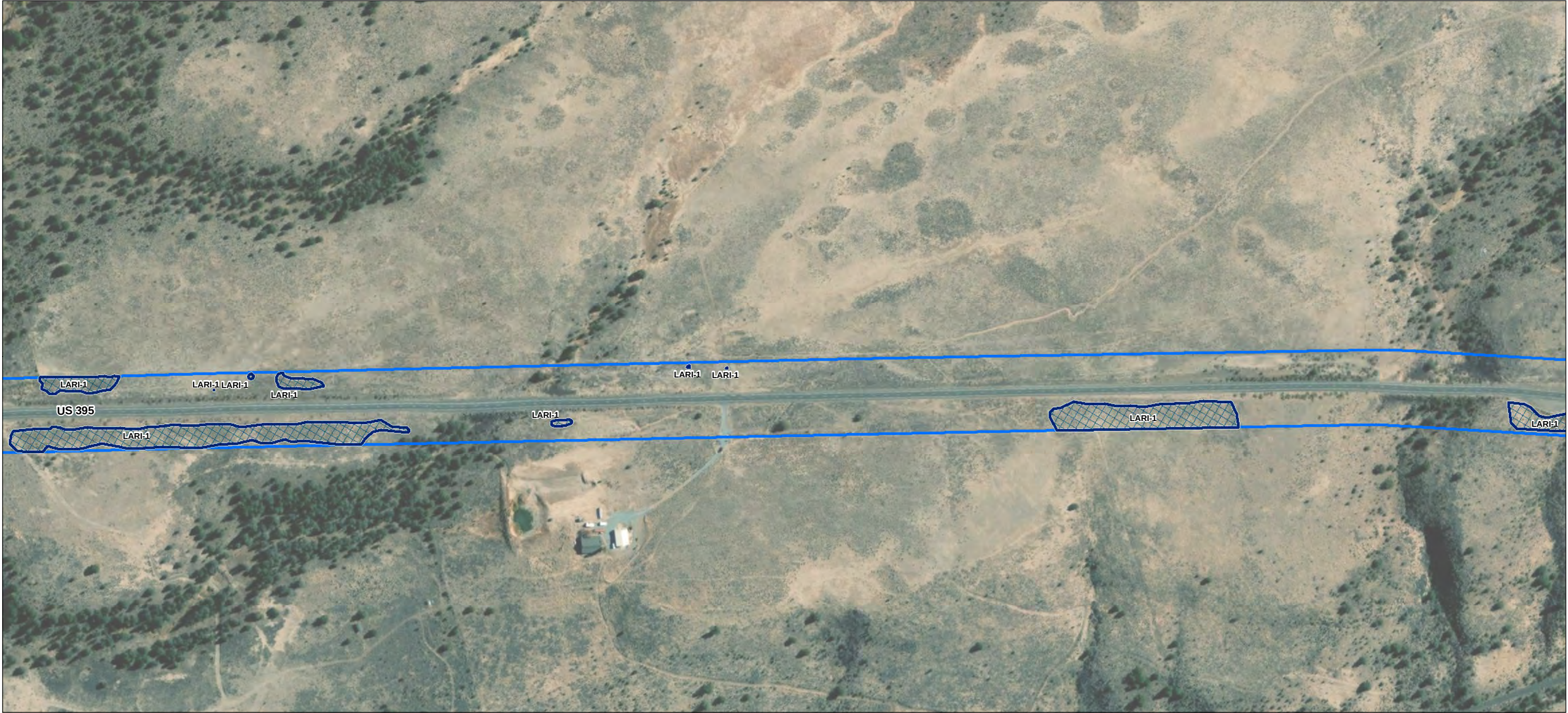
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Figure No.
4

Title
Special-Status Plant Occurrences

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Revised: 2020-11-23 By: mooney

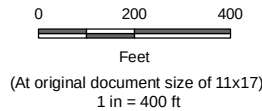


Notes
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- Legend**
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 - CDFW
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 - USFWS
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 - DOLA (Downingia laeta)

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- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

2272020011

Figure No.
4

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Special-Status Plant Occurrences

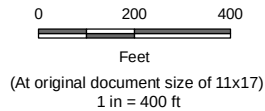


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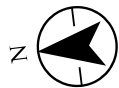
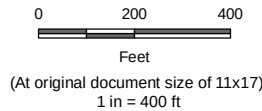


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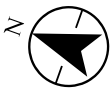
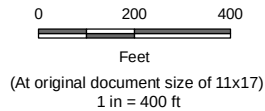


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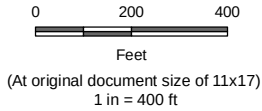


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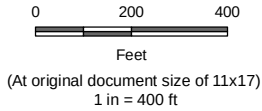


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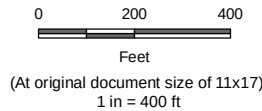


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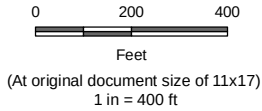


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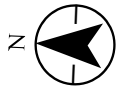


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- CHCLC (Chylismia claviformis ssp. cruciformis)
- DOLA (Downingia laeta)

- ERBOA (Eremothera boothii var. alyssoides)
- EREAN (Erigeron eatonii var. nevadicolus)
- EREL (Erigeron elegantulus)
- ERCO (Eriogonum collinum)
- ERNUN (Eriogonum nutans var. nutans)
- ERIN (Erythranthe inflatula)
- FRALM (Frasera albicaulis var. modocensis)
- HACU (Hackelia cusickii)
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- STLAL (Stenotus lanuginosus var. lanuginosus)
- THMI (Thelypodium milleflorum)
- TRGYP (Trifolium gymnocarpon ssp. plummerae)
- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)

2272020011

Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences



Notes
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- Botanical Survey Area
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- BLM
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- ARFU (Arnica fulgens)
- ASAG (Astragalus agrestis)
- ASIOD (Astragalus iodonanthus var. diaphanoides)
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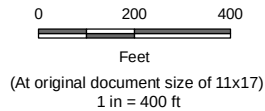


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Botanical Resources Report

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4

Title
Special-Status Plant Occurrences

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Notes
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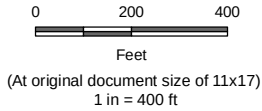
- Botanical Survey Area
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Special-Status Plants

- ALPU (Allium punctum)
- ARFU (Arnica fulgens)
- ASAG (Astragalus agrestis)
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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

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Title

Special-Status Plant Occurrences

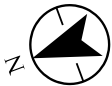


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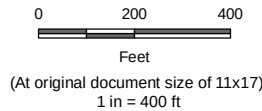


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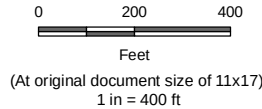


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- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC

Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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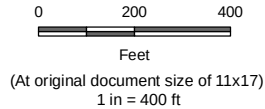


Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
2. Background: ESRI World Imagery web mapping service

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- ALPU (Allium punctum)
 - ARFU (Arnica fulgens)
 - ASAG (Astragalus agrestis)
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 - CAAT (Carex atherodes)
 - CASH (Carex sheldonii)
 - CHCLC (Chylisma claviformis ssp. cruciformis)
 - DOLA (Downingia laeta)

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- EREAN (Erigeron eatonii var. nevadincola)
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Figure No. 4

Title Special-Status Plant Occurrences

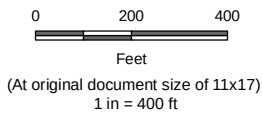


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Revised: 2020-11-23 By: mooney



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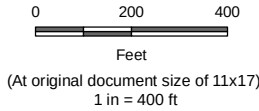
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- USFWS

Special-Status Plants

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Figure No. 4

Title Special-Status Plant Occurrences



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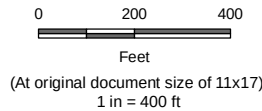
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- ARFU (*Arnica fulgens*)
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Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.

4

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Special-Status Plant Occurrences



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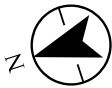
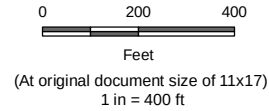


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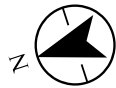
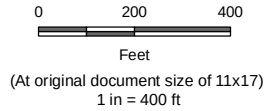


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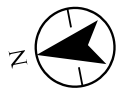
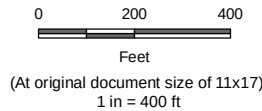


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2. Background: ESRI World Imagery web mapping service

- Special-Status Plants**
- ALPU (*Allium punctum*)
 - ARFU (*Arnica fulgens*)
 - ASAG (*Astragalus agrestis*)
 - ASIOD (*Astragalus iodonanthus* var. *diaphanoides*)
 - ASPUC (*Astragalus pulsifer* var. *coronensis*)
 - ATGAF (*Atriplex gardneri* var. *falcata*)
 - CAAT (*Carex atherodes*)
 - CASH (*Carex sheldonii*)
 - CHCLC (*Chylismia claviformis* ssp. *cruciformis*)
 - DOLA (*Downingia laeta*)

- ERBOA (*Eremothera boothii* var. *alyssooides*)
- EREAN (*Erigeron eatonii* var. *nevadicolus*)
- EREL (*Erigeron elegantulus*)
- ERCO (*Eriogonum collinum*)
- ERNUN (*Eriogonum nutans* var. *nutans*)
- ERIN (*Erythranthe inflatula*)
- FRALM (*Frasera albicaulis* var. *modocensis*)
- HACU (*Hackelia cusickii*)
- HYLE (*Hymenoxys lemmonii*)
- LALA (*Ladeania lanceolata*)
- LARI (*Lathyrus rigidus*)
- LOCA (*Lomatium canbyi*)
- LORAR (*Lomatium ravenii* var. *ravenii*)
- LORO (*Lomatium roseanum*)
- LUPUI (*Lupinus pusillus* var. *intermontanus*)

- MEOBO (*Mertensia oblongifolia* var. *oblongifolia*)
- PECE (*Pedicularis centranthera*)
- PESU (*Penstemon sudans*)
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- POWI (*Polycytenium williamsiae*)
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- RUVE (*Rumex venosus*)
- STPI (*Stachys pilosa*)
- STVI (*Stanleya viridiflora*)
- STLAL (*Stenotus lanuginosus* var. *lanuginosus*)
- THMI (*Thelypodium milleflorum*)
- TRGYP (*Trifolium gymnocarpon* ssp. *plummerae*)
- VIPUA (*Viola purpurea* ssp. *aurea*)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)

2272020011

Figure No.
4

Title
Special-Status Plant Occurrences

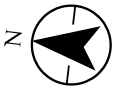


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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

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Special-Status Plant Occurrences

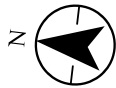


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Botanical Resources Report

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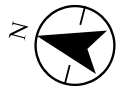
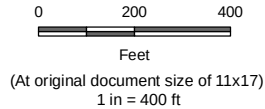


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Prineville to Reno Fiber Optic Project (California)

2272020011

Botanical Resources Report

Figure No.
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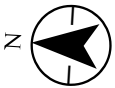


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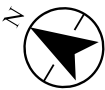
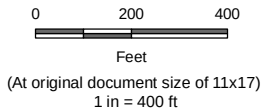


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Botanical Resources Report

Figure No.
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Special-Status Plant Occurrences

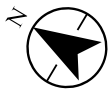
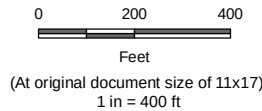


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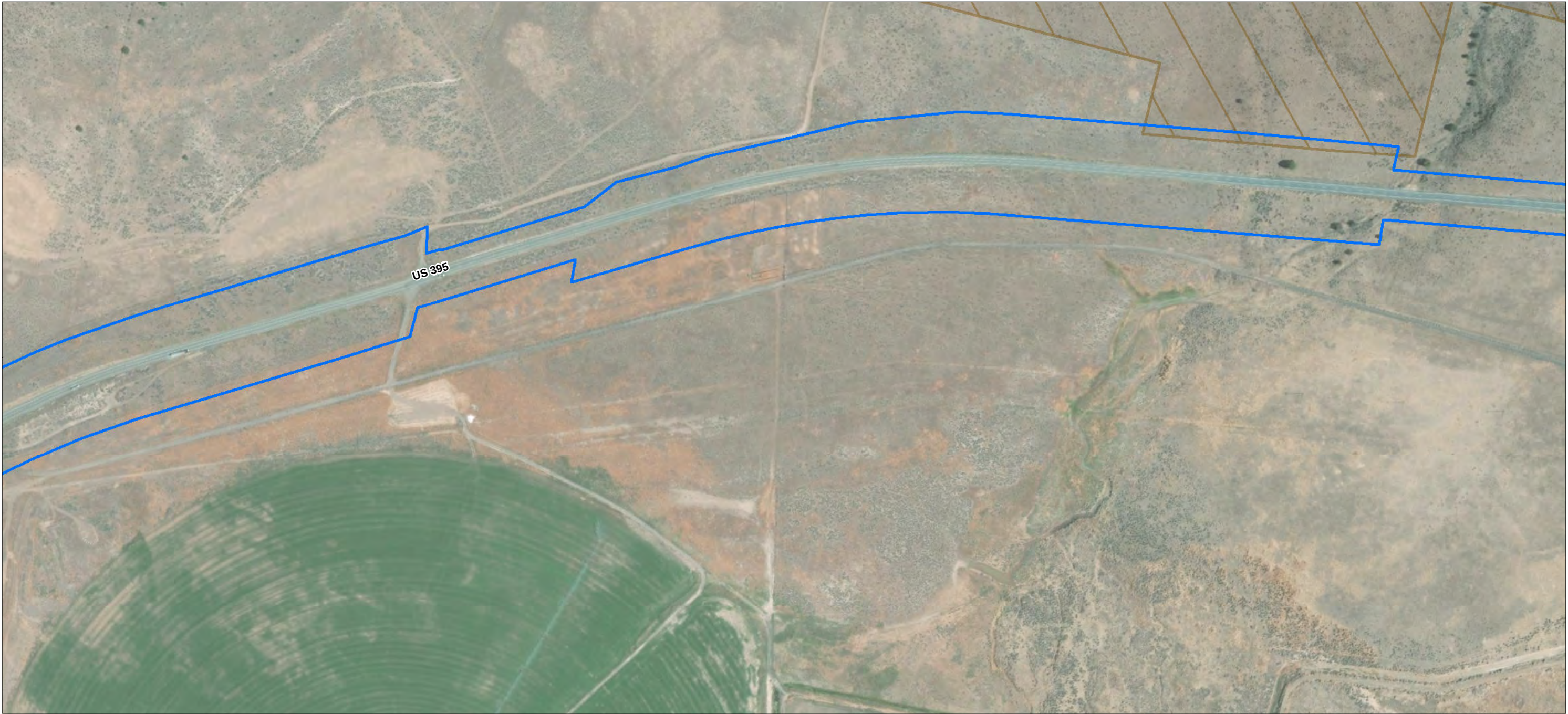
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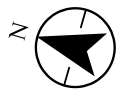
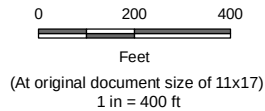


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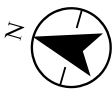
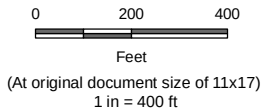


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- PECE (Pedicularis centranthera)
- PESU (Penstemon sudans)
- POFRF (Polyctenium fremontii var. fremontii)
- POWI (Polyctenium williamsiae)
- POSU (Polygala subspinosus)
- RUVE (Rumex venosus)
- STPI (Stachys pilosa)
- STVI (Stanleya viridiflora)
- STLAL (Stenotus lanuginosus var. lanuginosus)
- THMI (Thelypodium milleflorum)
- TRGYP (Trifolium gymnocarpon ssp. plummerae)
- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)

2272020011

Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences



Notes
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- Botanical Survey Area
- CDFW
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- Special-Status Plants**
- ALPU (*Allium punctum*)
- ARFU (*Arnica fulgens*)
- ASAG (*Astragalus agrestis*)
- ASIOD (*Astragalus iodanthus* var. *diaphanoides*)
- ASPUC (*Astragalus pulsiferae* var. *coronensis*)
- ATGAF (*Atriplex gardneri* var. *falcata*)
- CAAT (*Carex atherodes*)
- CASH (*Carex sheldonii*)
- CHCLC (*Chylismia claviformis* ssp. *cruciformis*)
- DOLA (*Downingia laeta*)

- ERBOA (*Eremothera boothii* var. *alyssoides*)
- EREAN (*Erigeron eatonii* var. *nevadicolus*)
- EREL (*Erigeron elegantulus*)
- ERCO (*Eriogonum collinum*)
- ERNUN (*Eriogonum nutans* var. *nutans*)
- ERIN (*Erythranthe inflatula*)
- FRALM (*Frasera albicaulis* var. *modocensis*)
- HACU (*Hackelia cusickii*)
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Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

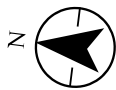
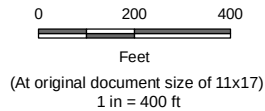


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Prineville to Reno Fiber Optic Project (California)

2272020011

Figure No.
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Special-Status Plant Occurrences

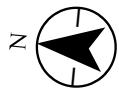
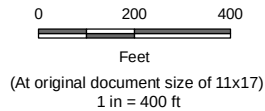


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2272020011

Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
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Special-Status Plant Occurrences

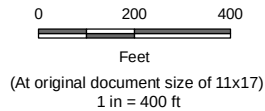


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Prineville to Reno Fiber Optic Project (California)

2272020011

Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

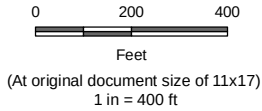


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Botanical Resources Report

Figure No.
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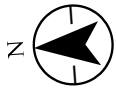


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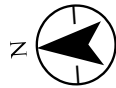
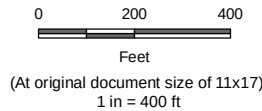


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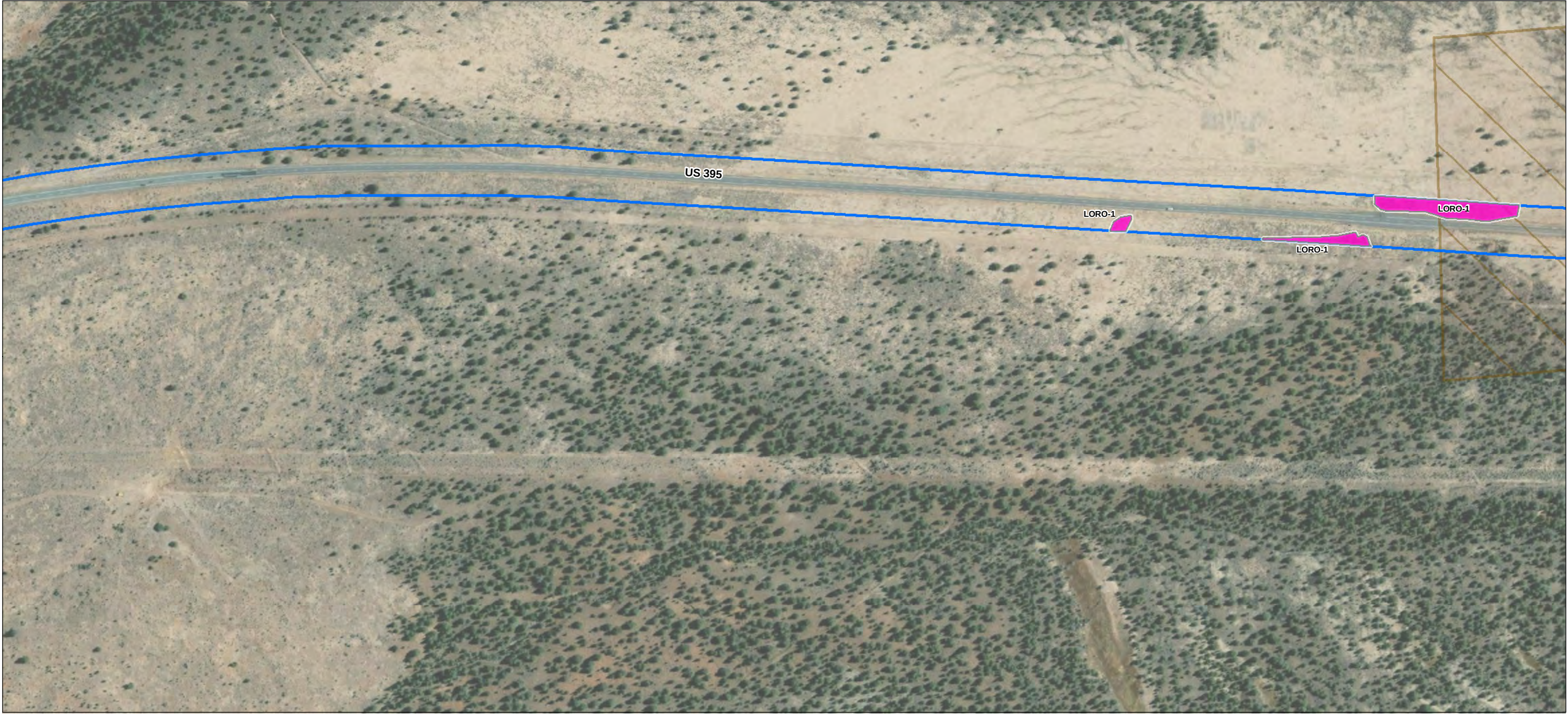
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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
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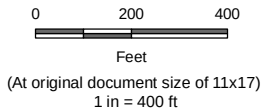


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- TRGYP (Trifolium gymnocarpon ssp. plummerae)
- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC

Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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Revised: 2020-11-23 By: mooney



Notes
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Project Location
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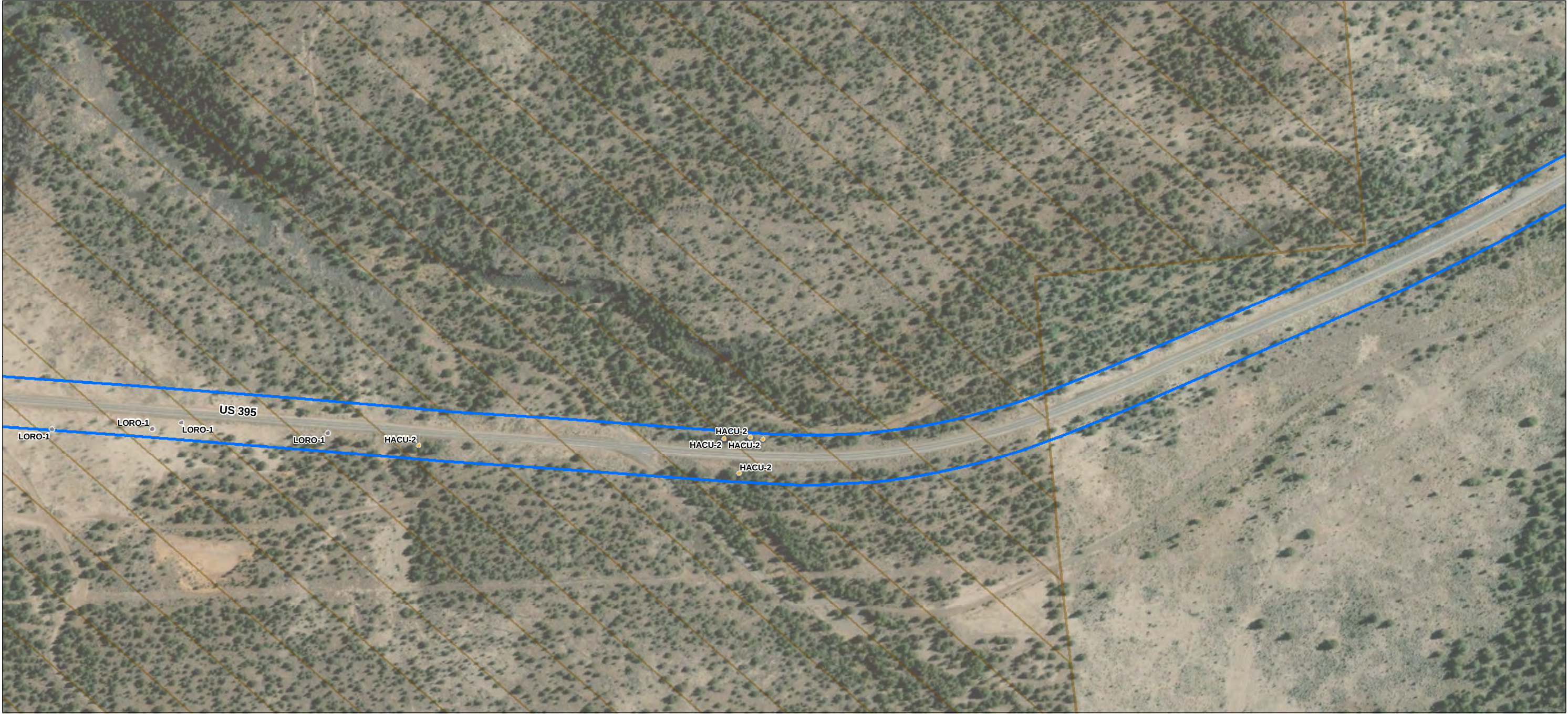
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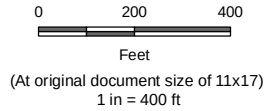


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Botanical Resources Report

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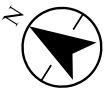
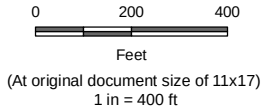
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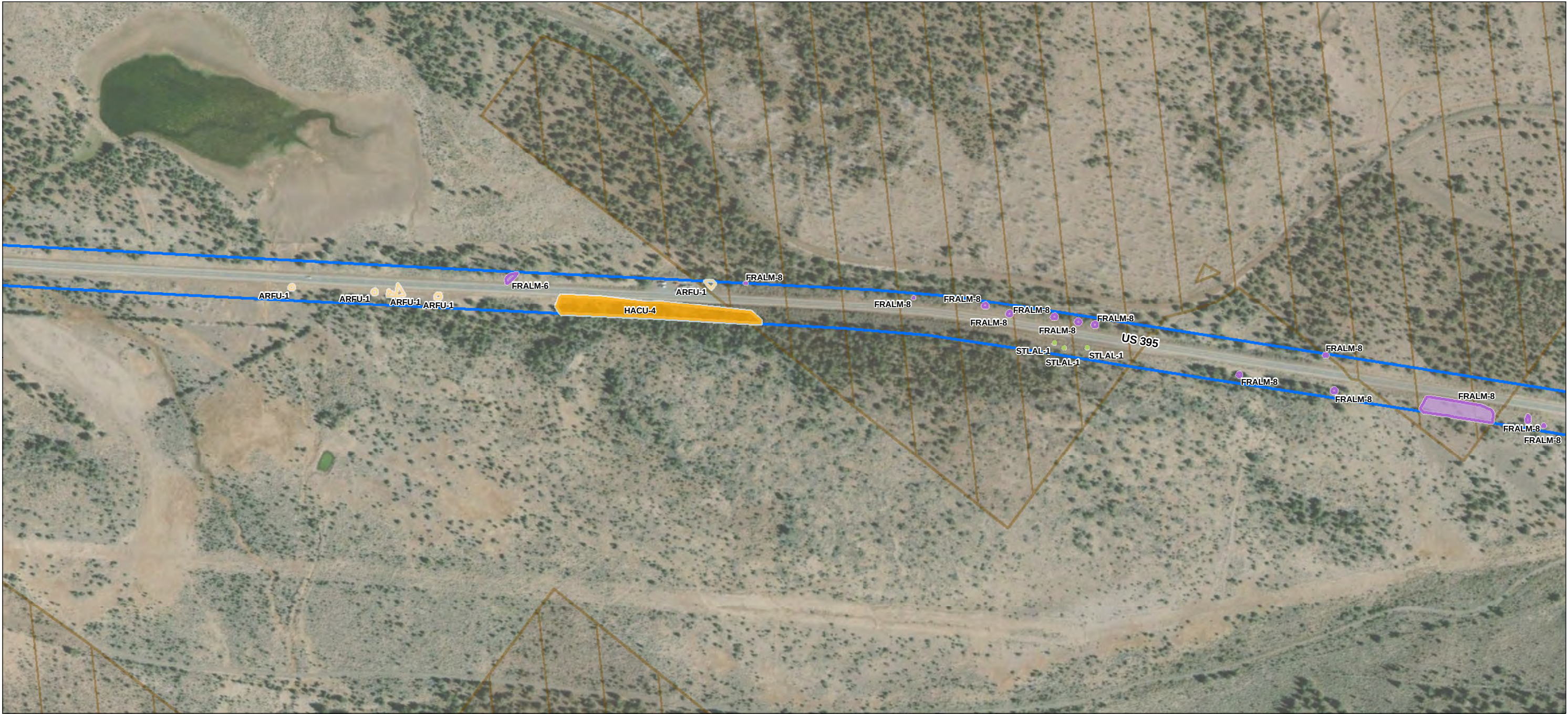
Project Location
Modoc, Lassen, and Sierra Counties, California

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Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
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Special-Status Plant Occurrences

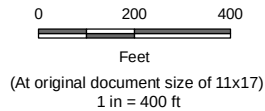


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Prineville to Reno Fiber Optic Project (California)

Botanical Resources Report

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Special-Status Plant Occurrences

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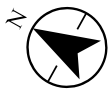
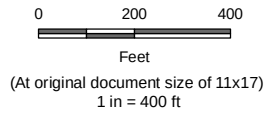
- Botanical Survey Area
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Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
2272020011

Figure No.
4

Title
Special-Status Plant Occurrences

Revised: 2020-11-23 By: mooney

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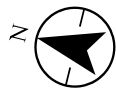
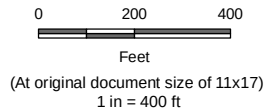
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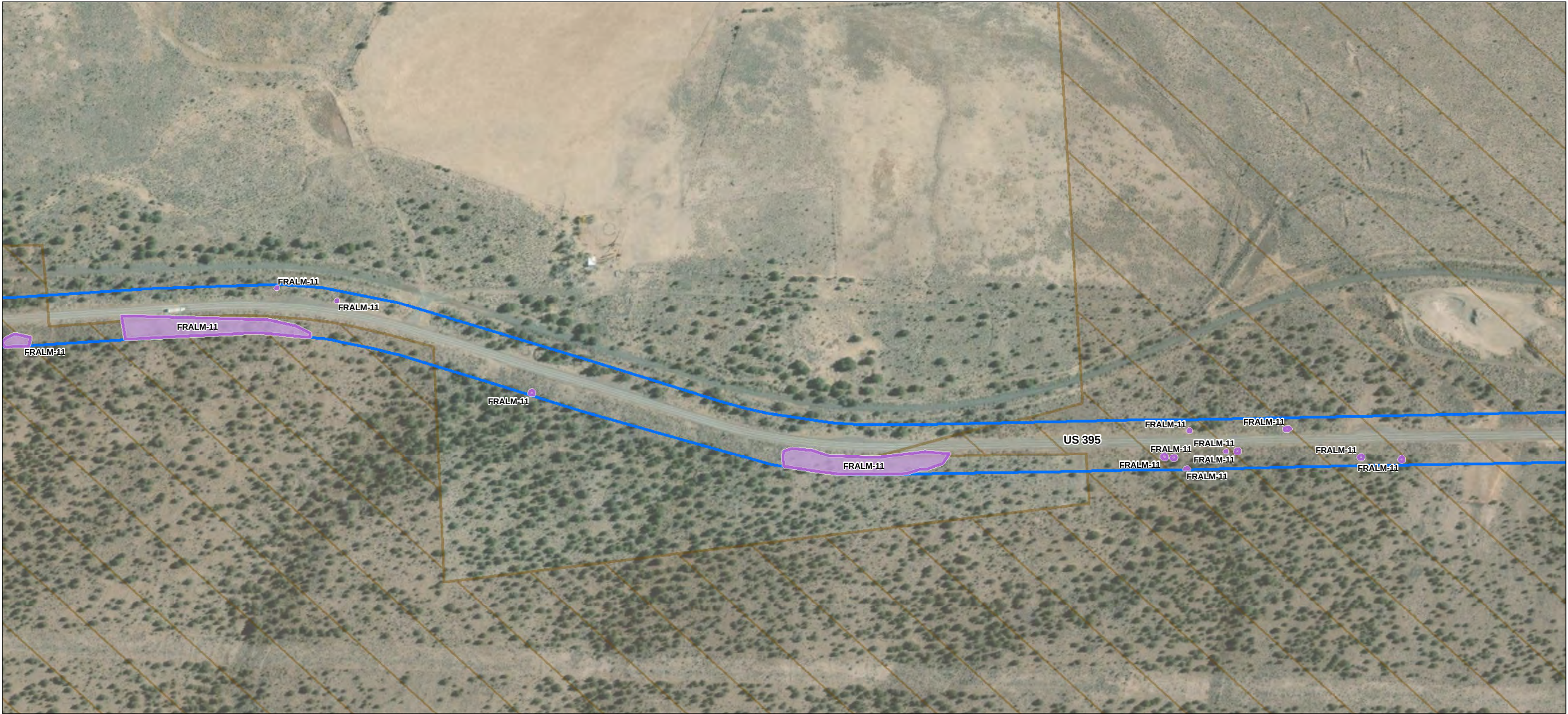
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Botanical Resources Report

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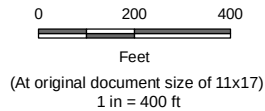
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Prineville to Reno Fiber Optic Project (California)
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Botanical Resources Report

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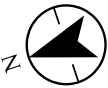
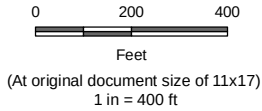


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- CASH (Carex sheldonii)
- CHCLC (Chylismia claviformis ssp. cruciformis)
- DOLA (Downingia laeta)

- ERBOA (Eremothera boothii var. alyssoides)
- EREAN (Erigeron eatonii var. nevadicolus)
- EREL (Erigeron elegantulus)
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- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

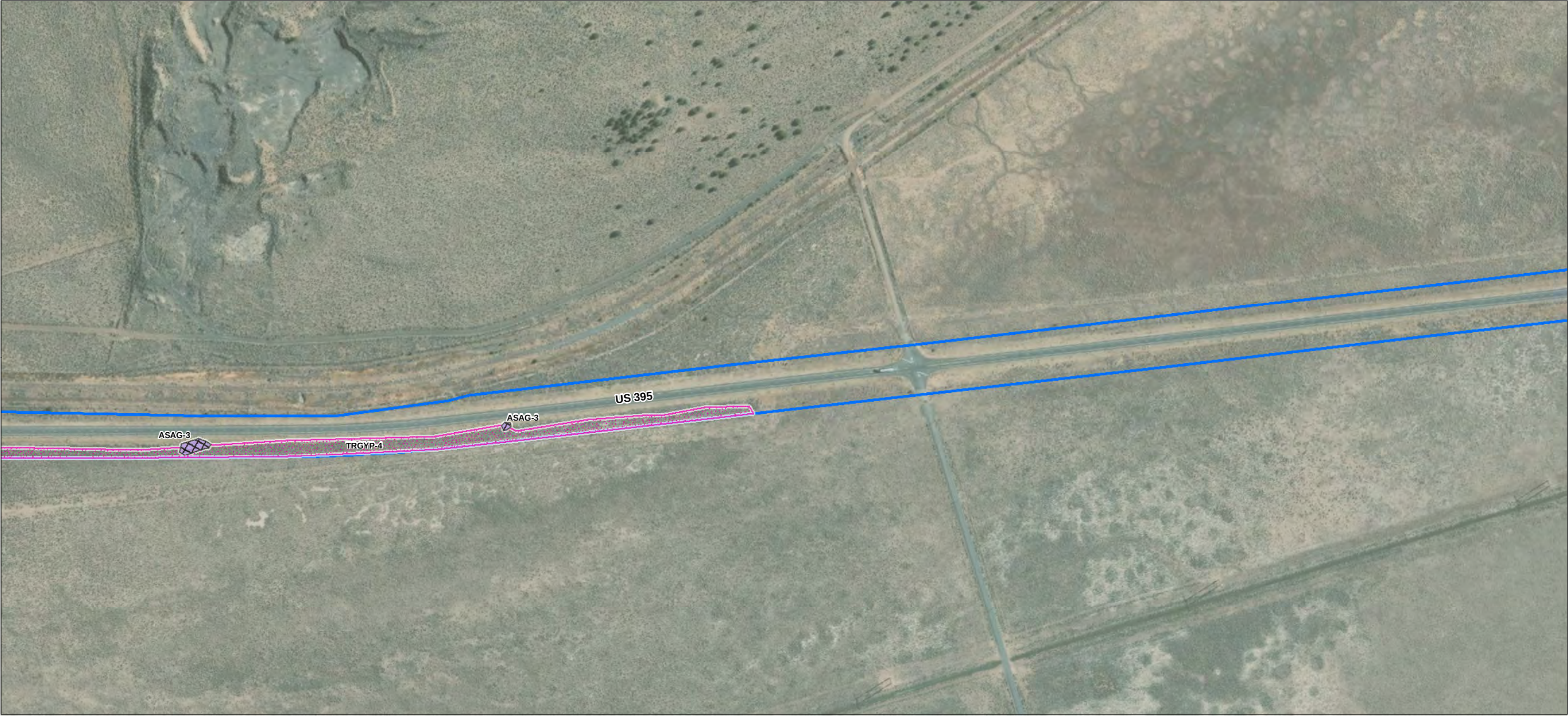
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IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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Revised: 2020-11-23 By: mooney



Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
2. Background: ESRI World Imagery web mapping service

- Botanical Survey Area**
- CDFW
 - BLM
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- ALPU (*Allium punctum*)
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 - ASAG (*Astragalus agrestis*)
 - ASIOD (*Astragalus iodonanthus* var. *diaphanoides*)
 - ASPUC (*Astragalus pulsifer* var. *coronensis*)
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Project Location
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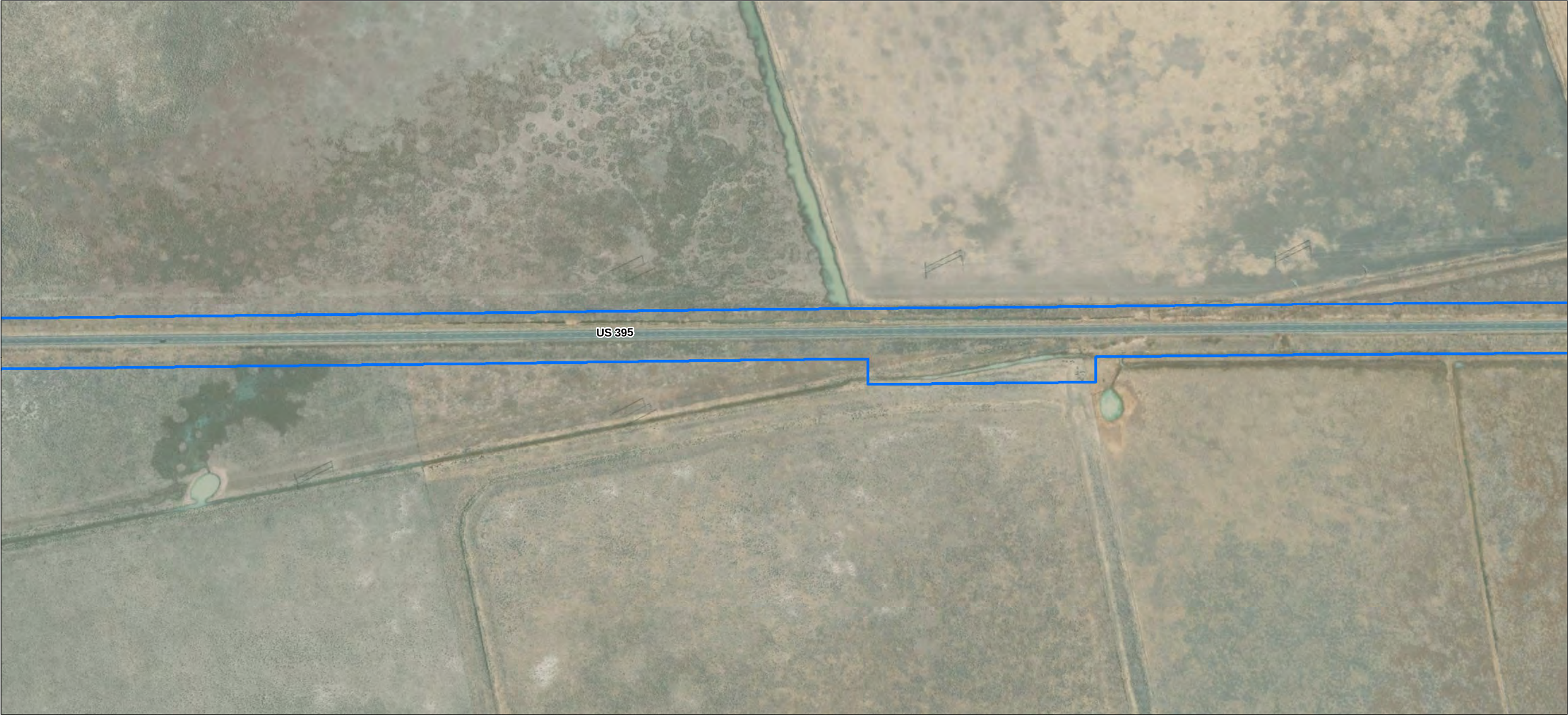
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Botanical Resources Report

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Figure No.
4

Title
Special-Status Plant Occurrences

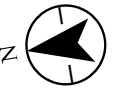
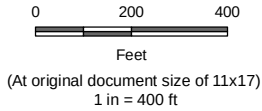


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Project Location
Modoc, Lassen, and Sierra Counties, California

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Figure No.
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Title
Special-Status Plant Occurrences



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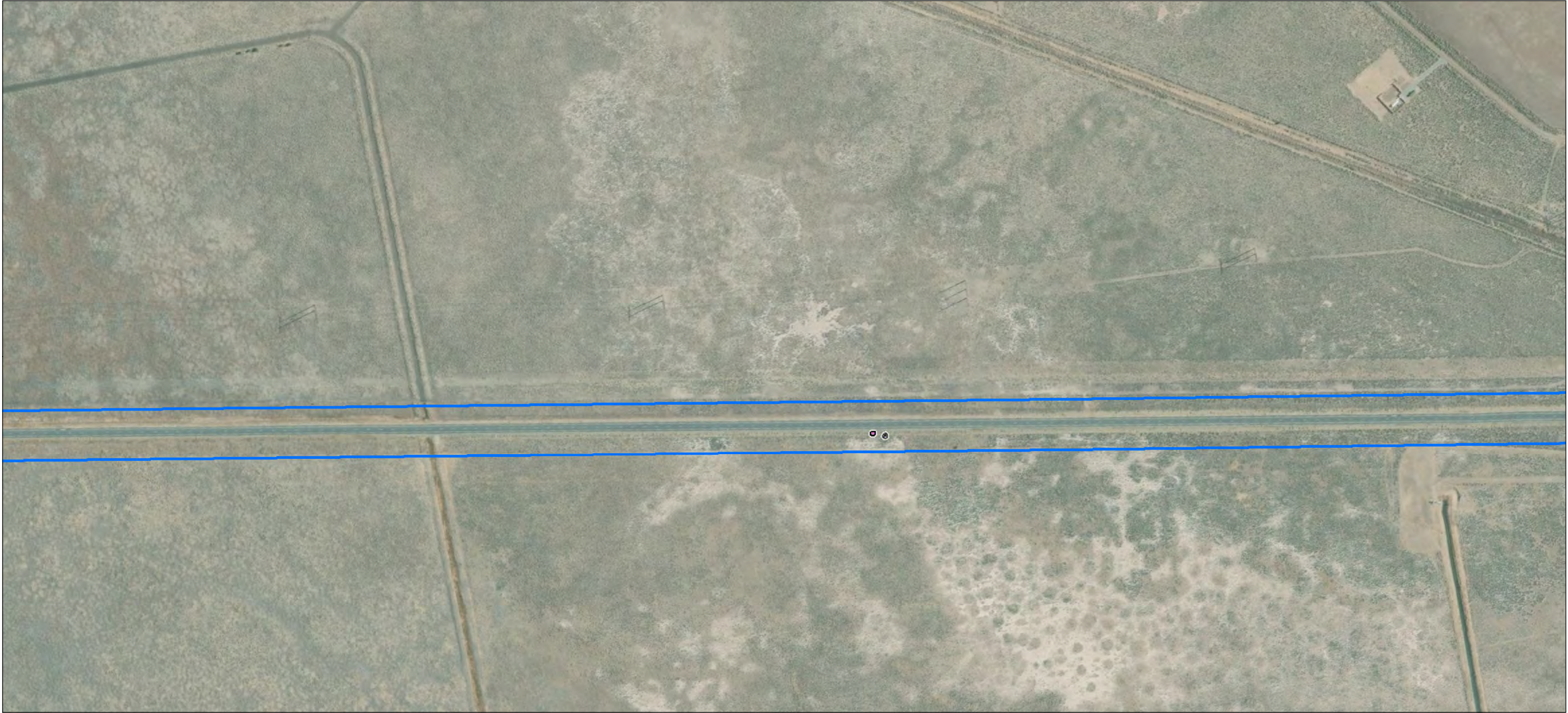
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Botanical Resources Report

Figure No.
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Special-Status Plant Occurrences

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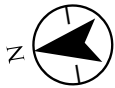


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Project Location
Modoc, Lassen, and Sierra Counties, California

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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
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Special-Status Plant Occurrences

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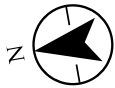
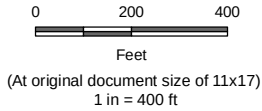
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Project Location
Modoc, Lassen, and Sierra Counties, California

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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No. 4

Title

Special-Status Plant Occurrences

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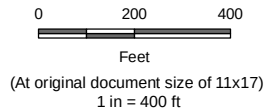


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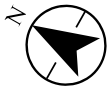


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Botanical Resources Report

Figure No. 4

Title Special-Status Plant Occurrences

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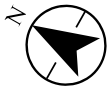


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Title
Special-Status Plant Occurrences

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Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
2. Background: ESRI World Imagery web mapping service

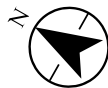
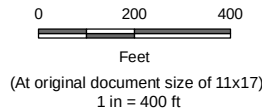
- Botanical Survey Area
- CDFW
- BLM
- USFWS

Special-Status Plants

- ALPU (Allium punctum)
- ARFU (Arnica fulgens)
- ASAG (Astragalus agrestis)
- ASIOD (Astragalus iodonanthus var. diaphanoides)
- ASPUC (Astragalus pulsifer var. coronensis)
- ATGAF (Atriplex gardneri var. falcata)
- CAAT (Carex atherodes)
- CASH (Carex sheldonii)
- CHCLC (Chylismia claviformis ssp. cruciformis)
- DOLA (Downingia laeta)

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- TRGYP (Trifolium gymnocarpon ssp. plummerae)
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Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project 2272020011

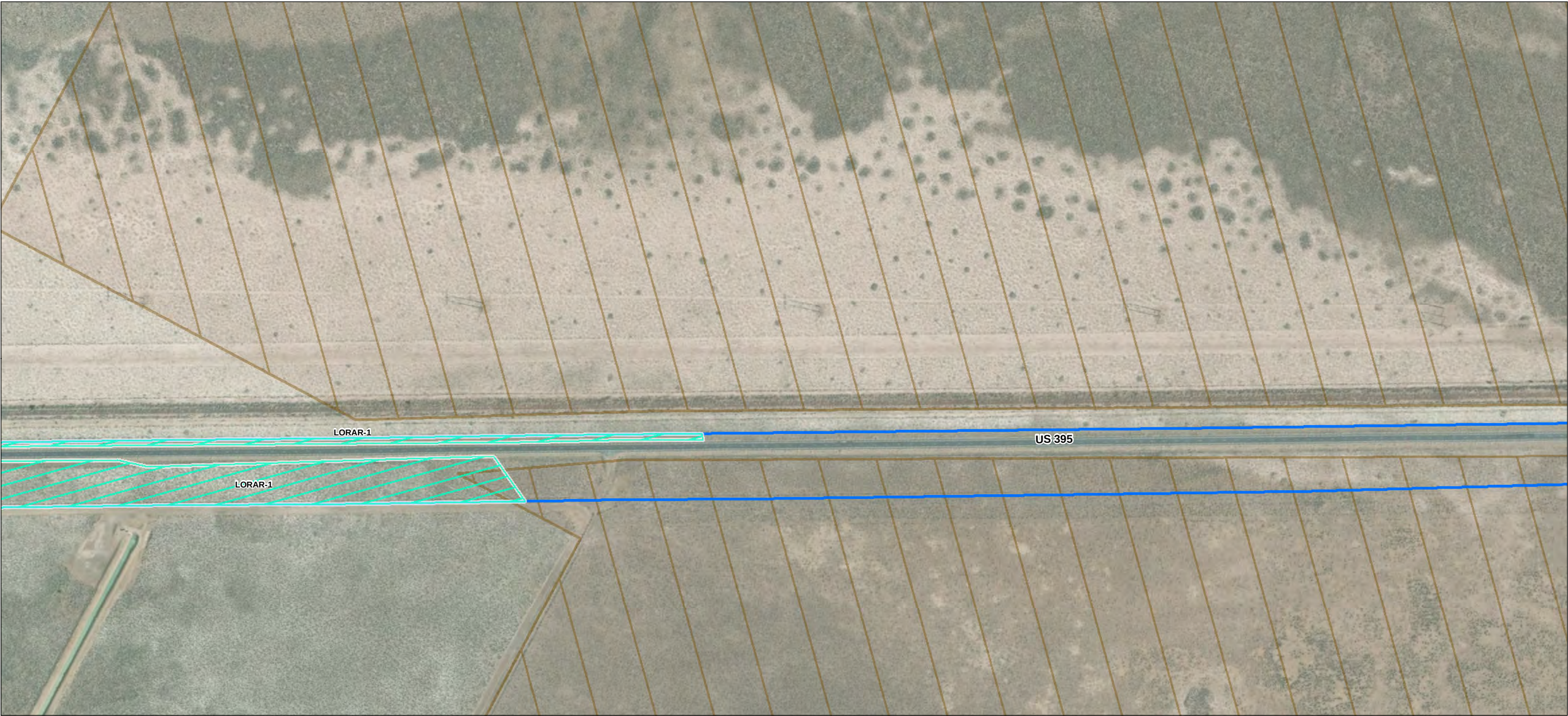
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.

4

Title

Special-Status Plant Occurrences



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Prineville to Reno Fiber Optic Project (California)

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Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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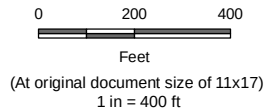


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Figure No. 4

Title Special-Status Plant Occurrences

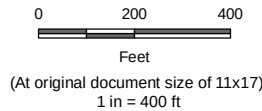


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Prineville to Reno Fiber Optic Project (California)

Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

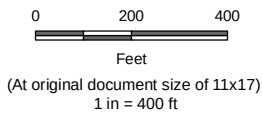


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Modoc, Lassen, and Sierra Counties, California

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Figure No.
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Title
Special-Status Plant Occurrences



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Project Location
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Botanical Resources Report

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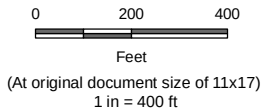


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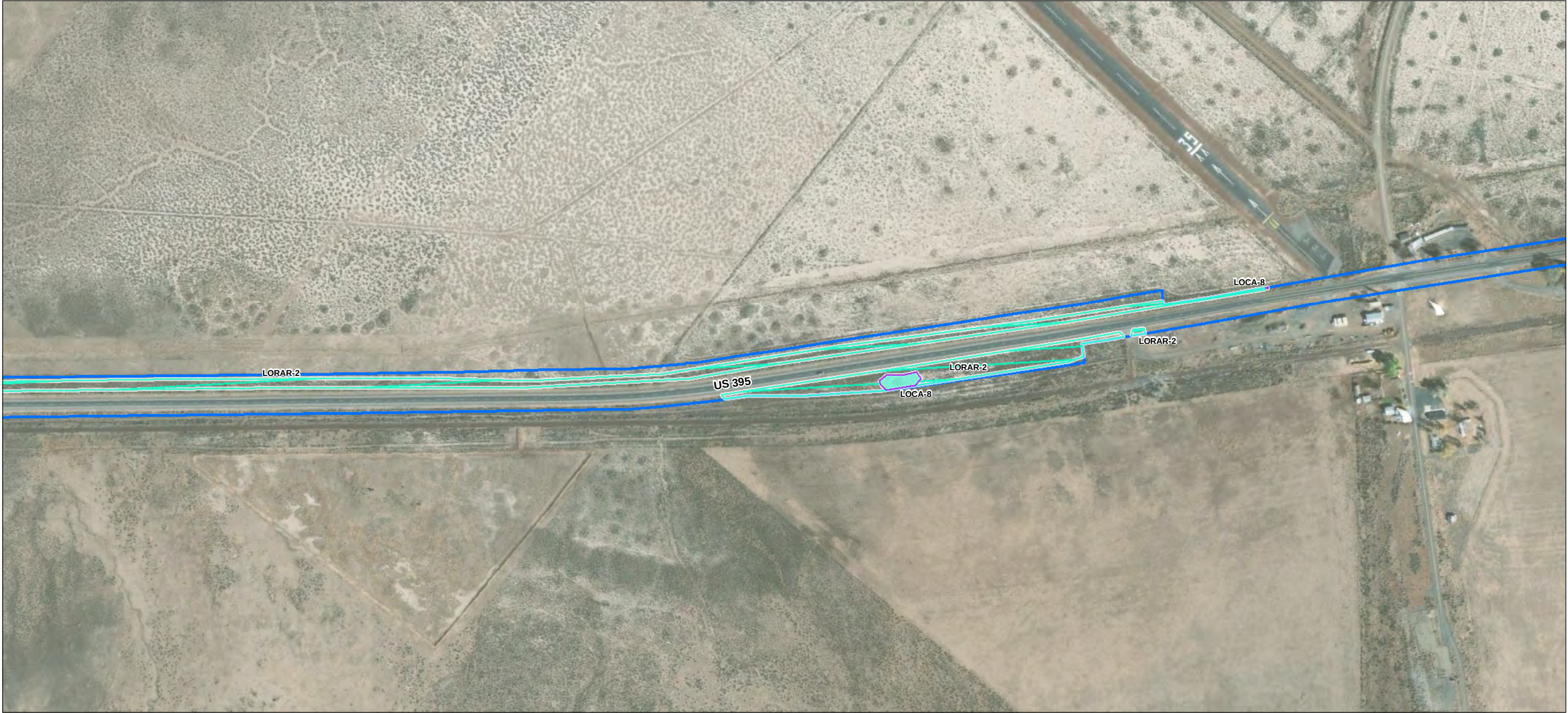
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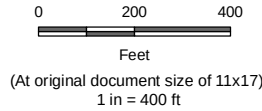


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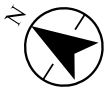


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- CAAT (*Carex atherodes*)
- CASH (*Carex sheldonii*)
- CHCLC (*Chylismia claviformis* ssp. *cruciformis*)
- DOLA (*Downingia laeta*)

- ERBOA (*Eremothera boothii* var. *alyssoides*)
- EREAN (*Erigeron eatonii* var. *nevadincola*)
- EREL (*Erigeron elegantulus*)
- ERCO (*Eriogonum collinum*)
- ERNUN (*Eriogonum nutans* var. *nutans*)
- ERIN (*Erythranthe inflatula*)
- FRALM (*Frasera albicaulis* var. *modocensis*)
- HACU (*Hackelia cusickii*)
- HYLE (*Hymenoxys lemmonii*)
- LALA (*Ladeania lanceolata*)
- LARI (*Lathyrus rigidus*)
- LOCA (*Lomatium canbyi*)
- LORAR (*Lomatium ravenii* var. *ravenii*)
- LORO (*Lomatium roseanum*)
- LUPUI (*Lupinus pusillus* var. *intermontanus*)

- MEOBO (*Mertensia oblongifolia* var. *oblongifolia*)
- PECE (*Pedicularis centranthera*)
- PESU (*Penstemon sudans*)
- POFRF (*Polyctenium fremontii* var. *fremontii*)
- POWI (*Polyctenium williamsiae*)
- POSU (*Polygala subspinososa*)
- RUVE (*Rumex venosus*)
- STPI (*Stachys pilosa*)
- STVI (*Stanleya viridiflora*)
- STLAL (*Stenotus lanuginosus* var. *lanuginosus*)
- THMI (*Thelypodium milleflorum*)
- TRGYP (*Trifolium gymnocarpon* ssp. *plummerae*)
- VIPUA (*Viola purpurea* ssp. *aurea*)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC

Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

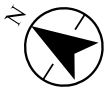


Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
2. Background: ESRI World Imagery web mapping service

- Botanical Survey Area
- CDFW
- BLM
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- Special-Status Plants**
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- ASAG (Astragalus agrestis)
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Prineville to Reno Fiber Optic Project (California)

2272020011

Botanical Resources Report

Figure No.

4

Title

Special-Status Plant Occurrences

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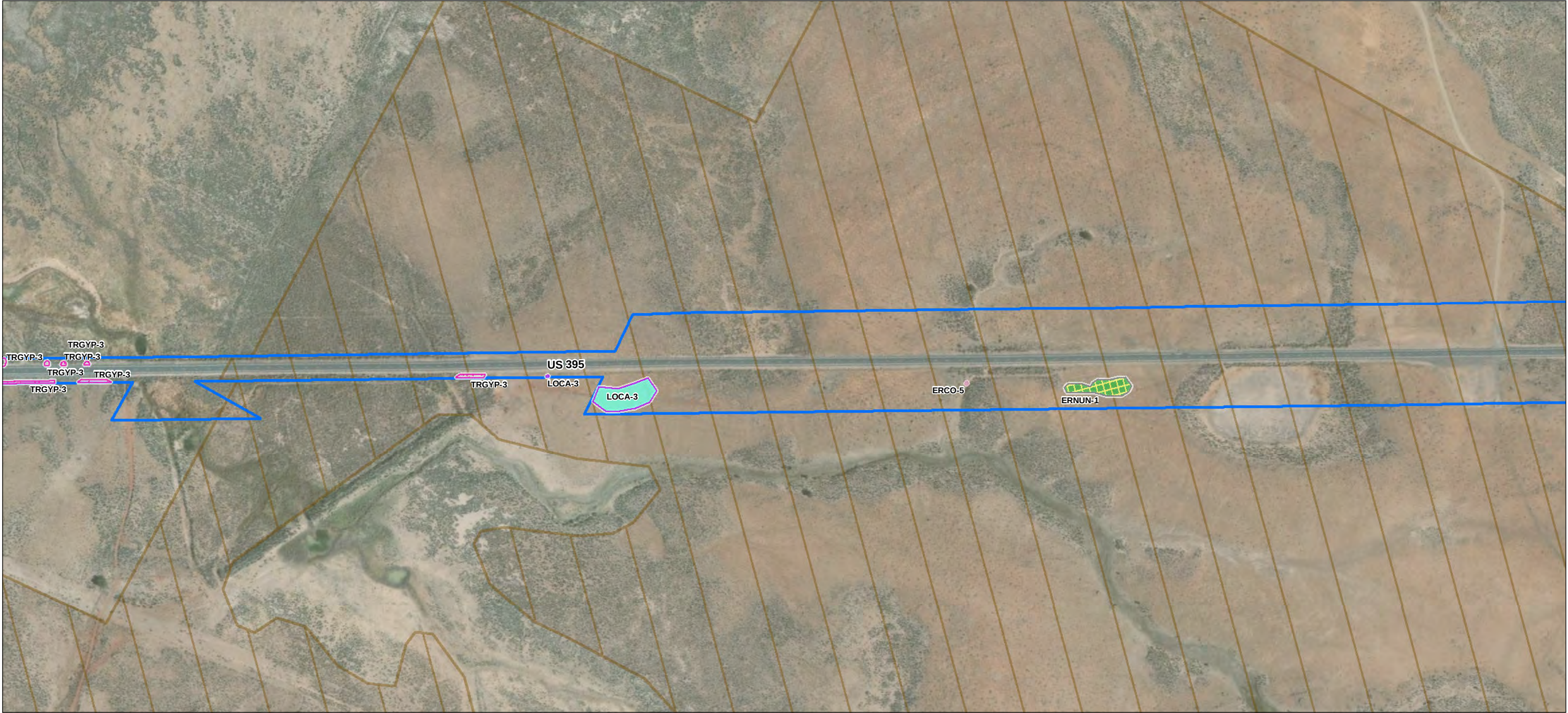
2272020011

Botanical Resources Report

Figure No.
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Special-Status Plant Occurrences

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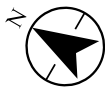
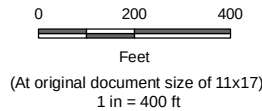


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Project Location
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Client/Project 2272020011

Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No. 4

Title Special-Status Plant Occurrences

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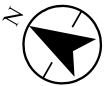
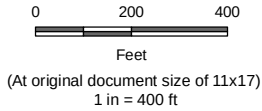
- Botanical Survey Area
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- USFWS

Special-Status Plants

- ALPU (Allium punctum)
- ARFU (Arnica fulgens)
- ASAG (Astragalus agrestis)
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- TRGYP (Trifolium gymnocarpon ssp. plummerae)
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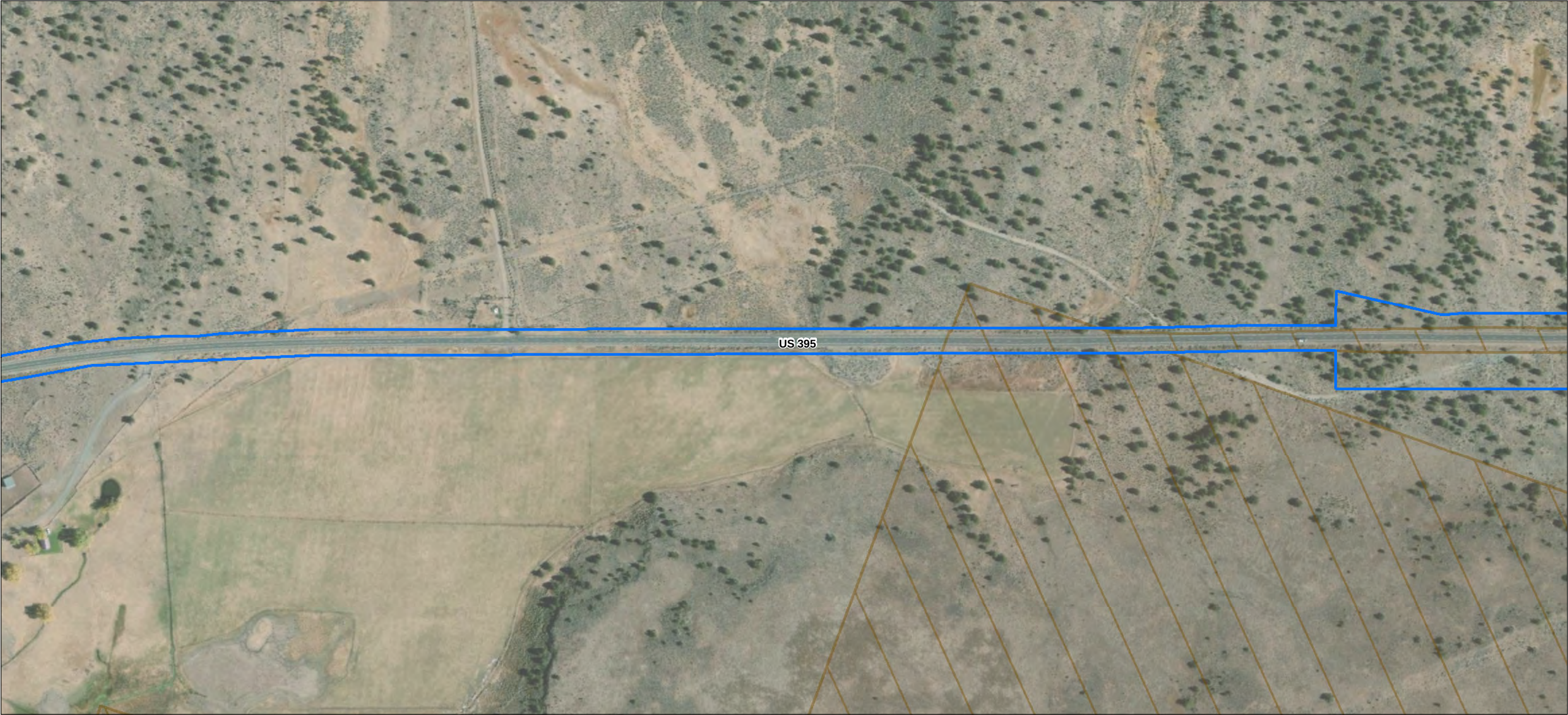
Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences



Notes
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- Special-Status Plants**
- ALPU (*Allium punctum*)
 - ARFU (*Arnica fulgens*)
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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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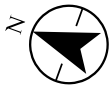
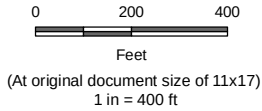
- Botanical Survey Area
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Special-Status Plants

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Botanical Resources Report

Figure No.

4

Title

Special-Status Plant Occurrences

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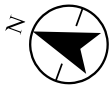
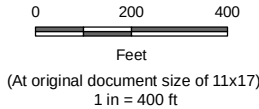
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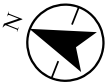
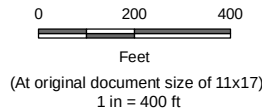
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Project Location
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TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
2272020011

Figure No.
4
Botanical Resources Report

Title
Special-Status Plant Occurrences

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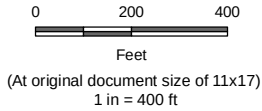


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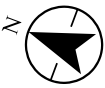
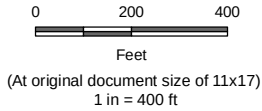
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Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.

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Special-Status Plant Occurrences

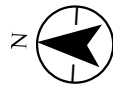
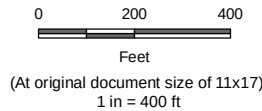


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Prineville to Reno Fiber Optic Project (California)
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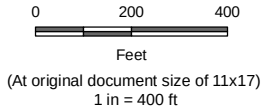
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Figure No. 4

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Special-Status Plant Occurrences

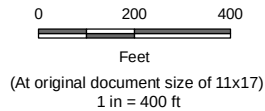


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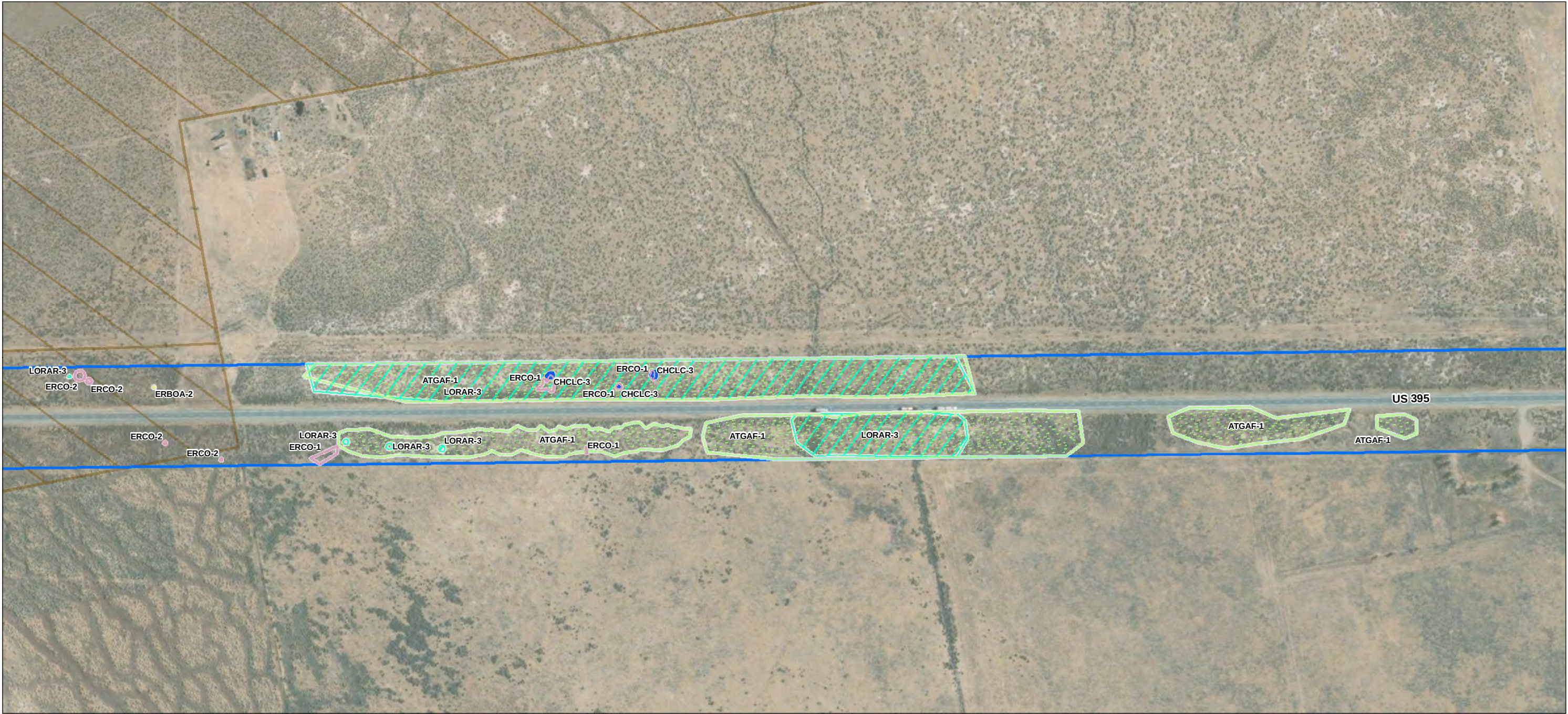
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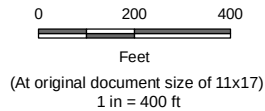


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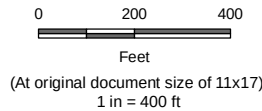
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- TRGYP (Trifolium gymnocarpon ssp. plummerae)
- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
2272020011

Figure No.
4
Title
Special-Status Plant Occurrences

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Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
2. Background: ESRI World Imagery web mapping service

- Botanical Survey Area**
- CDFW
 - BLM
 - USFWS
- Special-Status Plants**
- ALPU (Allium punctum)
 - ARFU (Arnica fulgens)
 - ASAG (Astragalus agrestis)
 - ASIOD (Astragalus iodonanthus var. diaphanoides)
 - ASPUC (Astragalus pulsiferae var. coronensis)
 - ATGAF (Atriplex gardneri var. falcata)
 - CAAT (Carex atherodes)
 - CASH (Carex sheldonii)
 - CHCLC (Chylismia claviformis ssp. cruciformis)
 - DOLA (Downingia laeta)

- ERBOA (Eremothera boothii var. alyssoides)
- EREAN (Erigeron eatonii var. nevadincola)
- EREL (Erigeron elegantulus)
- ERCO (Eriogonum collinum)
- ERNUN (Eriogonum nutans var. nutans)
- ERIN (Erythranthe inflatula)
- FRALM (Frasera albicaulis var. modocensis)
- HACU (Hackelia cusickii)
- HYLE (Hymenoxys lemmonii)
- LALA (Ladeania lanceolata)
- LARI (Lathyrus rigidus)
- LOCA (Lomatium canbyi)
- LORAR (Lomatium ravenii var. ravenii)
- LORO (Lomatium roseanum)
- LUPUI (Lupinus pusillus var. intermontanus)

- MEOBO (Mertensia oblongifolia var. oblongifolia)
- PECE (Pedicularis centranthera)
- PESU (Penstemon sudans)
- POFRF (Polyctenium fremontii var. fremontii)
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- STPI (Stachys pilosa)
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Project Location
Modoc, Lassen, and Sierra Counties, California

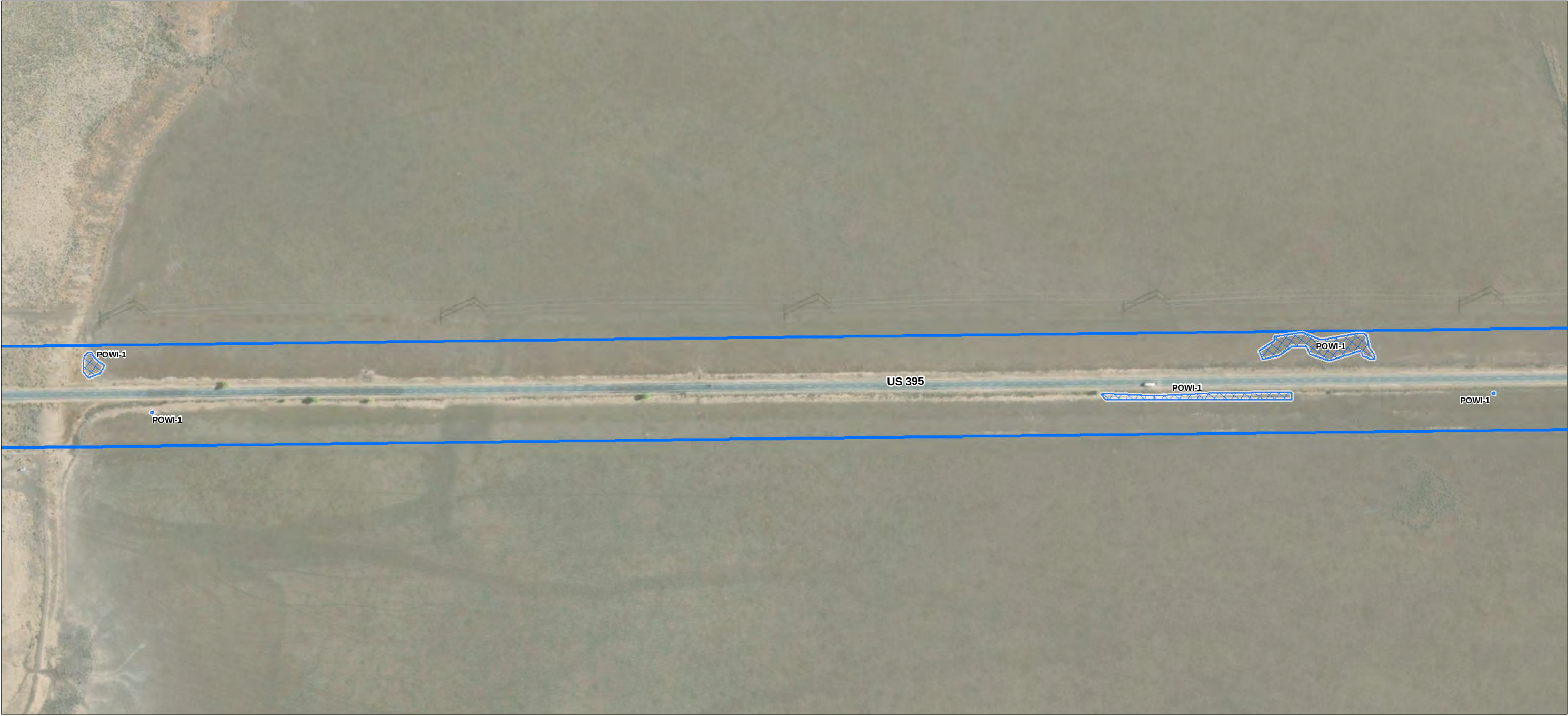
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Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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Notes
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Project Location
Modoc, Lassen, and Sierra Counties, California

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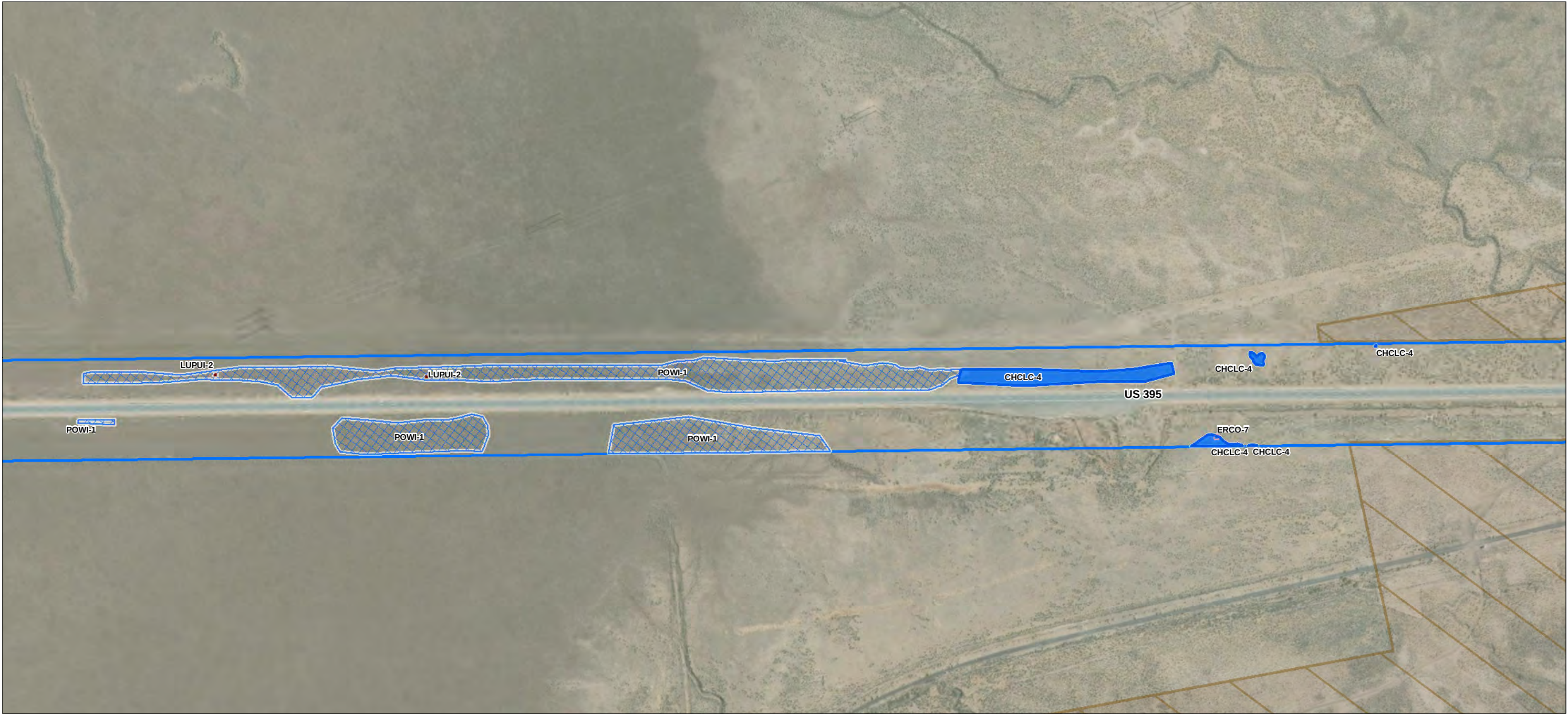
Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)

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Figure No.
4

Title
Special-Status Plant Occurrences

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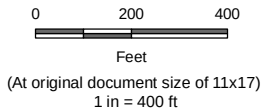


Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
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- Special-Status Plants**
- ALPU (Allium punctum)
 - ARFU (Arnica fulgens)
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Project Location
Modoc, Lassen, and Sierra Counties, California

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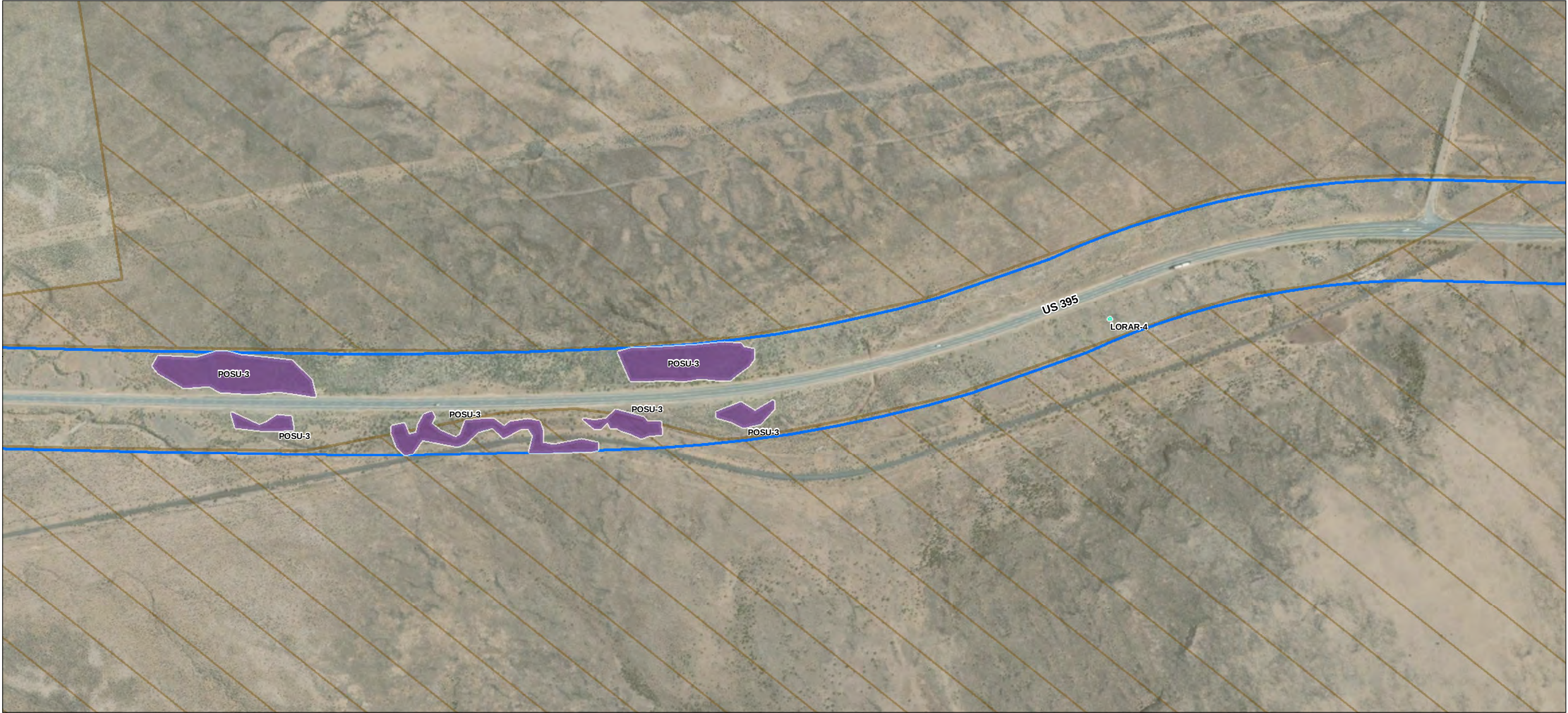
Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)

Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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Revised: 2020-11-23 By: mooney

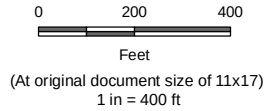


Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
2. Background: ESRI World Imagery web mapping service

- Legend**
- Botanical Survey Area
 - CDFW
 - BLM
 - USFWS
 - Special-Status Plants**
 - ALPU (Allium punctum)
 - ARFU (Arnica fulgens)
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Project Location
Modoc, Lassen, and Sierra Counties, California

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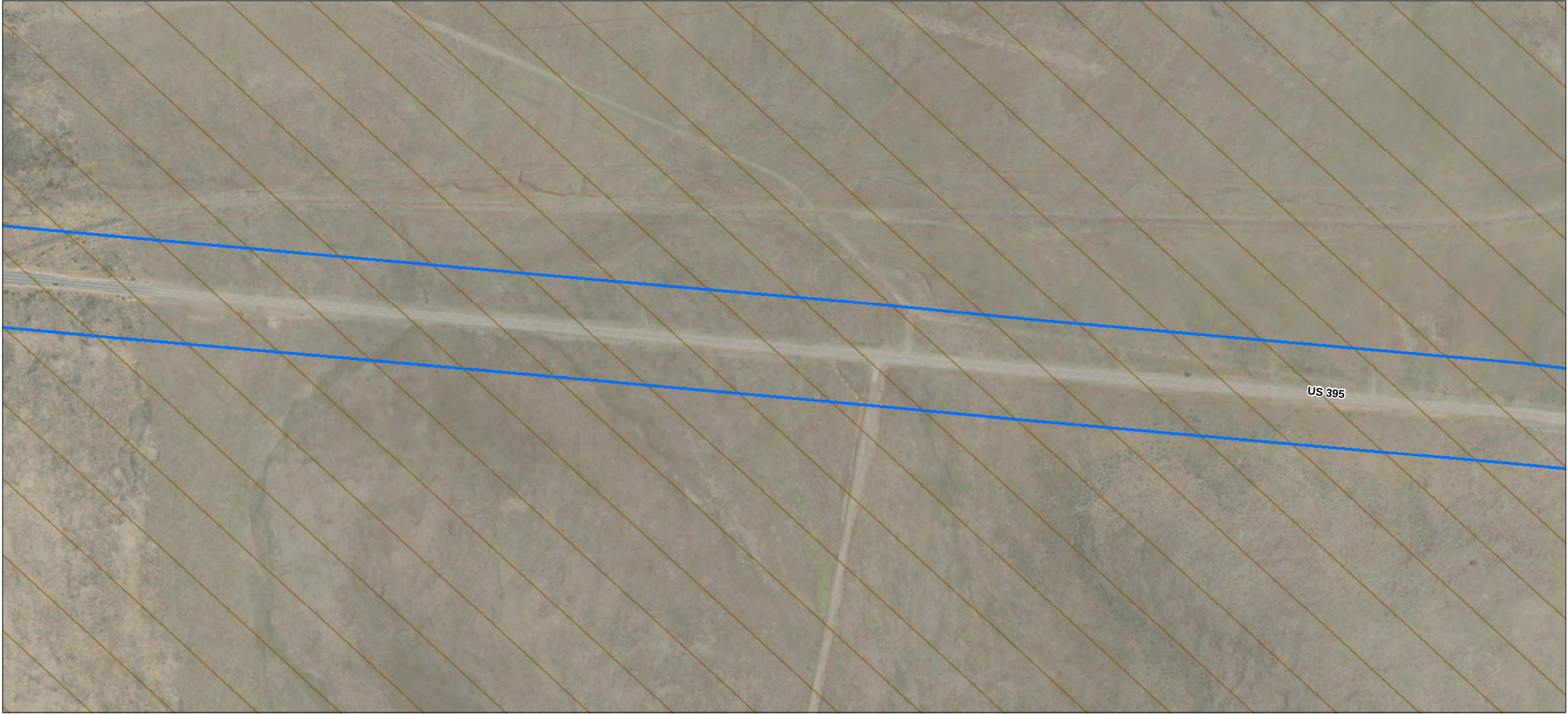
Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)

2272020011

Figure No.
4

Title
Special-Status Plant Occurrences

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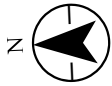


Notes
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- Special-Status Plants**
- ALPU (Allium punctum)
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Project Location
Modoc, Lassen, and Sierra Counties, California

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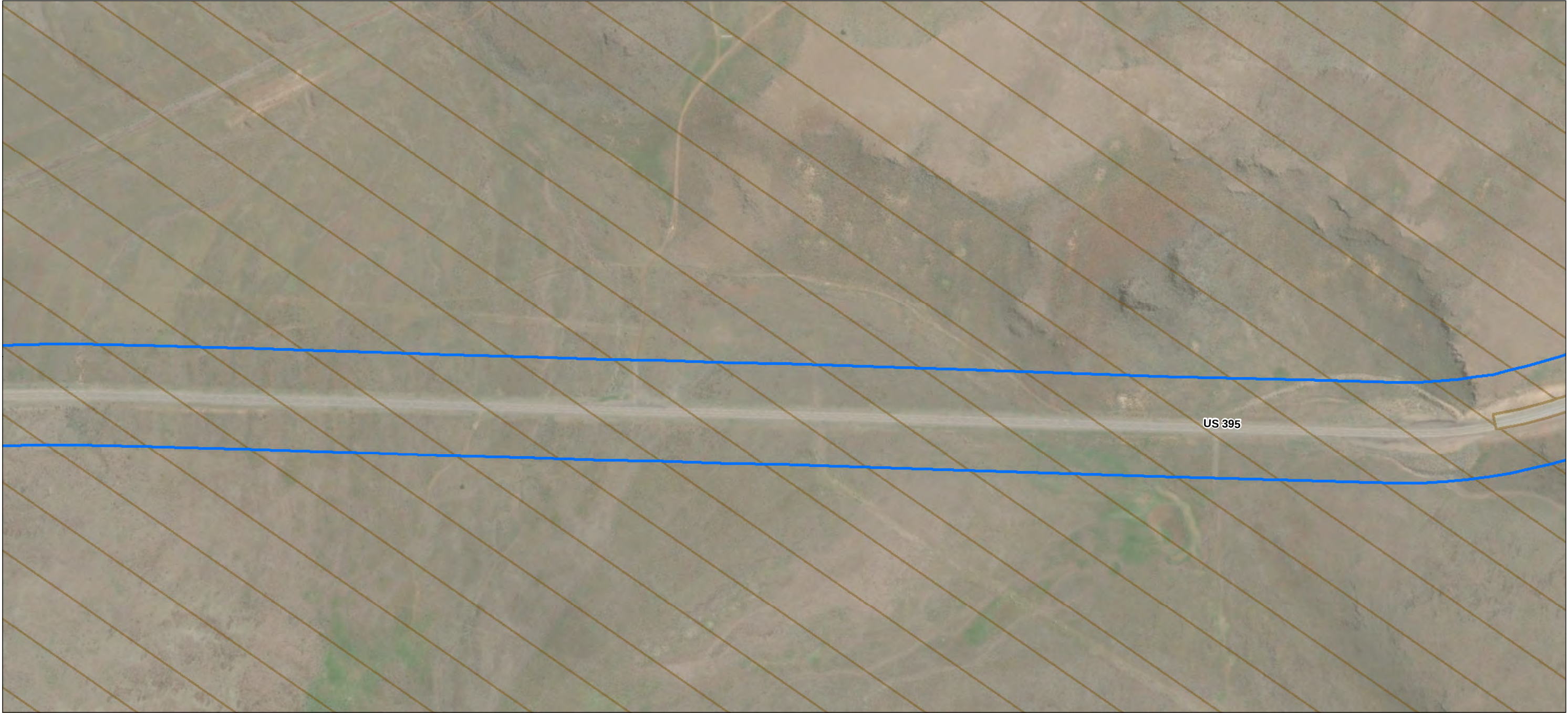
Client/Project
Zayo Group LLC

Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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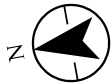


Notes
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- Special-Status Plants**
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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
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Special-Status Plant Occurrences

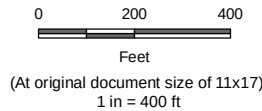


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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No. 4

Title

Special-Status Plant Occurrences

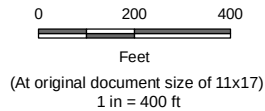


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2272020011

Figure No.
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Title
Special-Status Plant Occurrences



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- ALPU (*Allium punctum*)
- ARFU (*Arnica fulgens*)
- ASAG (*Astragalus agrestis*)
- ASIOD (*Astragalus iodonanthus* var. *diaphanoides*)
- ASPUC (*Astragalus pulsiferae* var. *coronensis*)
- ATGAF (*Atriplex gardneri* var. *falcata*)
- CAAT (*Carex atherodes*)
- CASH (*Carex sheldonii*)
- CHCLC (*Chylismia claviformis* ssp. *cruciformis*)
- DOLA (*Downingia laeta*)

- ERBOA (*Eremothera boothii* var. *alyssoides*)
- EREAN (*Erigeron eatonii* var. *nevadincola*)
- EREL (*Erigeron elegantulus*)
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- MEOBO (*Mertensia oblongifolia* var. *oblongifolia*)
- PECE (*Pedicularis centranthera*)
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- VIPUA (*Viola purpurea* ssp. *aurea*)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
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IR by CS on 2020-08-31

Client/Project
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Figure No.
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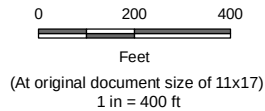


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- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC

Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

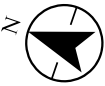


Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
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- Botanical Survey Area
- CDFW
- BLM
- USFWS
- Special-Status Plants**
- ALPU (*Allium punctum*)
- ARFU (*Arnica fulgens*)
- ASAG (*Astragalus agrestis*)
- ASIOD (*Astragalus iodonanthus* var. *diaphanoides*)
- ASPUC (*Astragalus pulsifer* var. *coronensis*)
- ATGAF (*Atriplex gardneri* var. *falcata*)
- CAAT (*Carex atherodes*)
- CASH (*Carex sheldonii*)
- CHCLC (*Chylismia claviformis* ssp. *cruciformis*)
- DOLA (*Downingia laeta*)

- ERBOA (*Eremothera boothii* var. *alyssoides*)
- EREAN (*Erigeron eatonii* var. *nevadincola*)
- EREL (*Erigeron elegantulus*)
- ERCO (*Eriogonum collinum*)
- ERNUN (*Eriogonum nutans* var. *nutans*)
- ERIN (*Erythranthe inflatula*)
- FRALM (*Frasera albicaulis* var. *modocensis*)
- HACU (*Hackelia cusickii*)
- HYLE (*Hymenoxys lemmonii*)
- LALA (*Ladeania lanceolata*)
- LARI (*Lathyrus rigidus*)
- LOCA (*Lomatium canbyi*)
- LORAR (*Lomatium ravenii* var. *ravenii*)
- LORO (*Lomatium roseanum*)
- LUPUI (*Lupinus pusillus* var. *intermontanus*)

- MEOBO (*Mertensia oblongifolia* var. *oblongifolia*)
- PECE (*Pedicularis centranthera*)
- PESU (*Penstemon sudans*)
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Special-Status Plant Occurrences

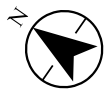


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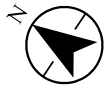


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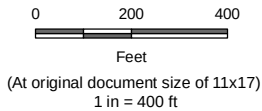
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Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.

4

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Prineville to Reno Fiber Optic Project (California)

2272020011

Botanical Resources Report

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Special-Status Plant Occurrences

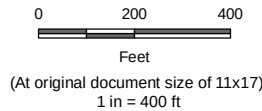


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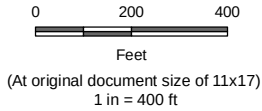


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- LOCA (Lomatium canbyi)
- LORAR (Lomatium ravenii var. ravenii)
- LORO (Lomatium roseanum)
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- MEOBO (Mertensia oblongifolia var. oblongifolia)
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- STLAL (Stenotus lanuginosus var. lanuginosus)
- THMI (Thelypodium milleflorum)
- TRGYP (Trifolium gymnocarpon ssp. plummerae)
- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC

Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

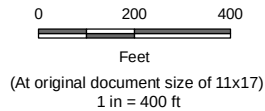


Notes
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- CASH (Carex sheldonii)
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- DOLA (Downingia laeta)

- ERBOA (Eremothera boothii var. alyssoides)
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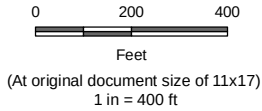


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Botanical Resources Report

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Botanical Resources Report

2272020011

Figure No.
4

Title
Special-Status Plant Occurrences



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Botanical Resources Report

Figure No.
4

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Special-Status Plant Occurrences

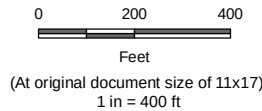


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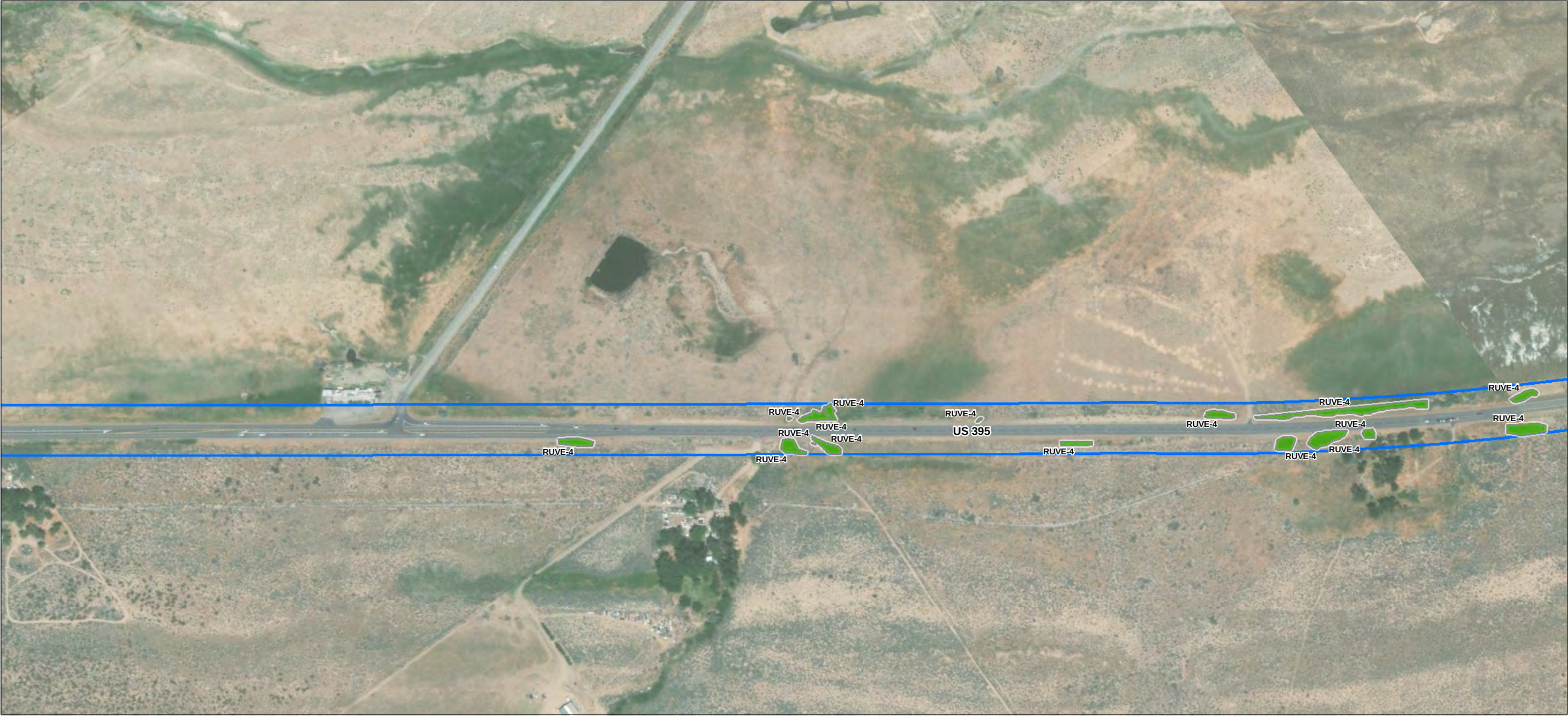
2272020011

Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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Notes
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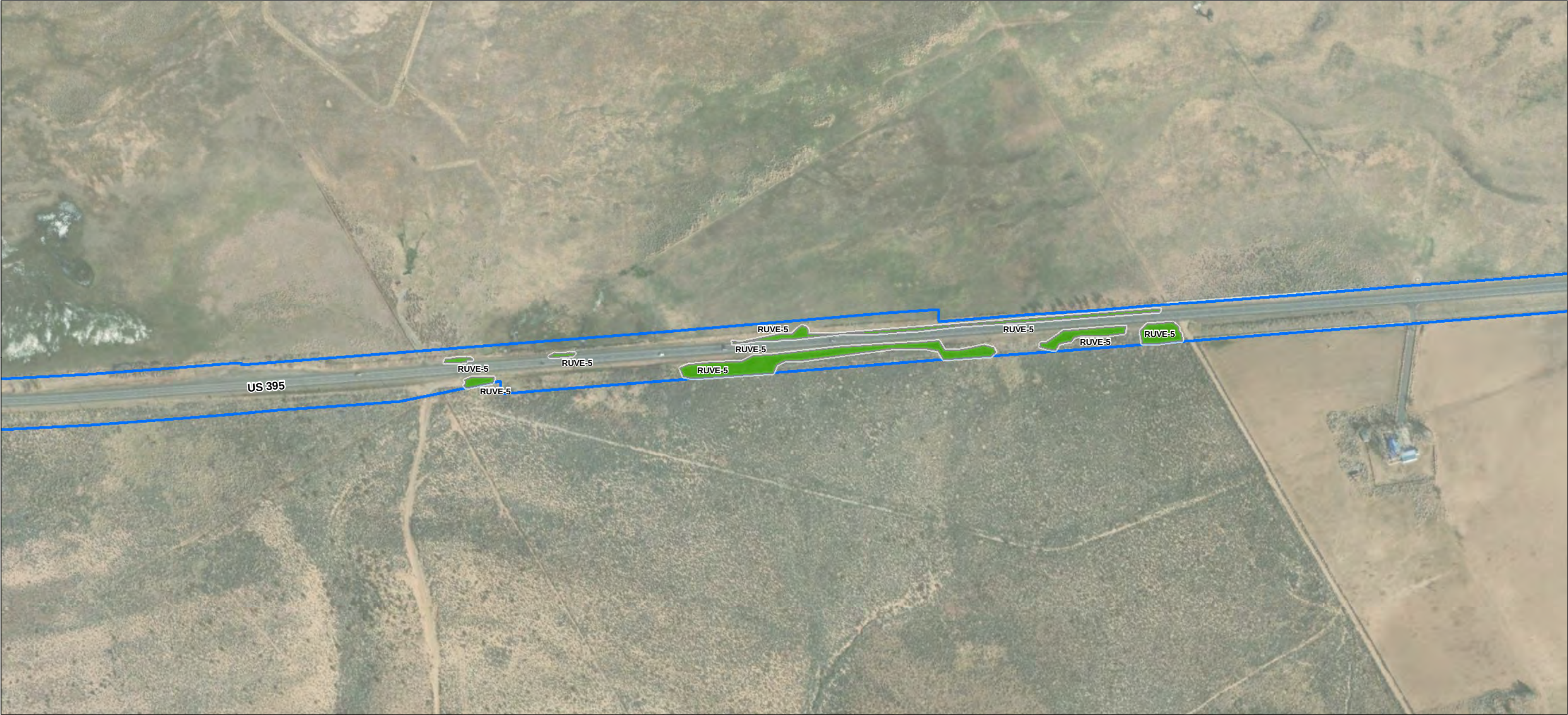
Project Location
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Botanical Resources Report

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Special-Status Plant Occurrences

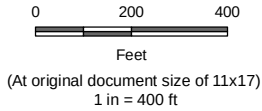


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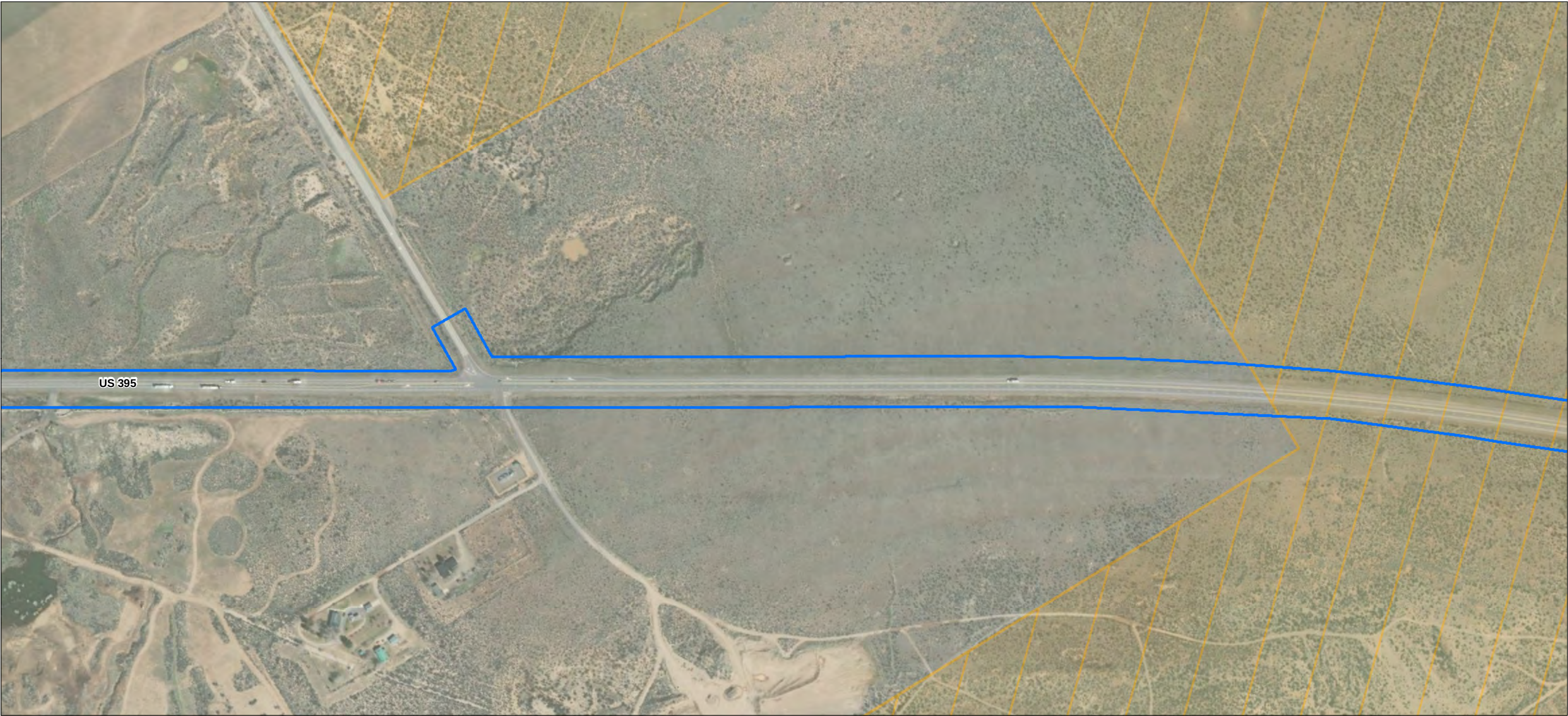
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Special-Status Plant Occurrences



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Project Location
Modoc, Lassen, and Sierra Counties, California

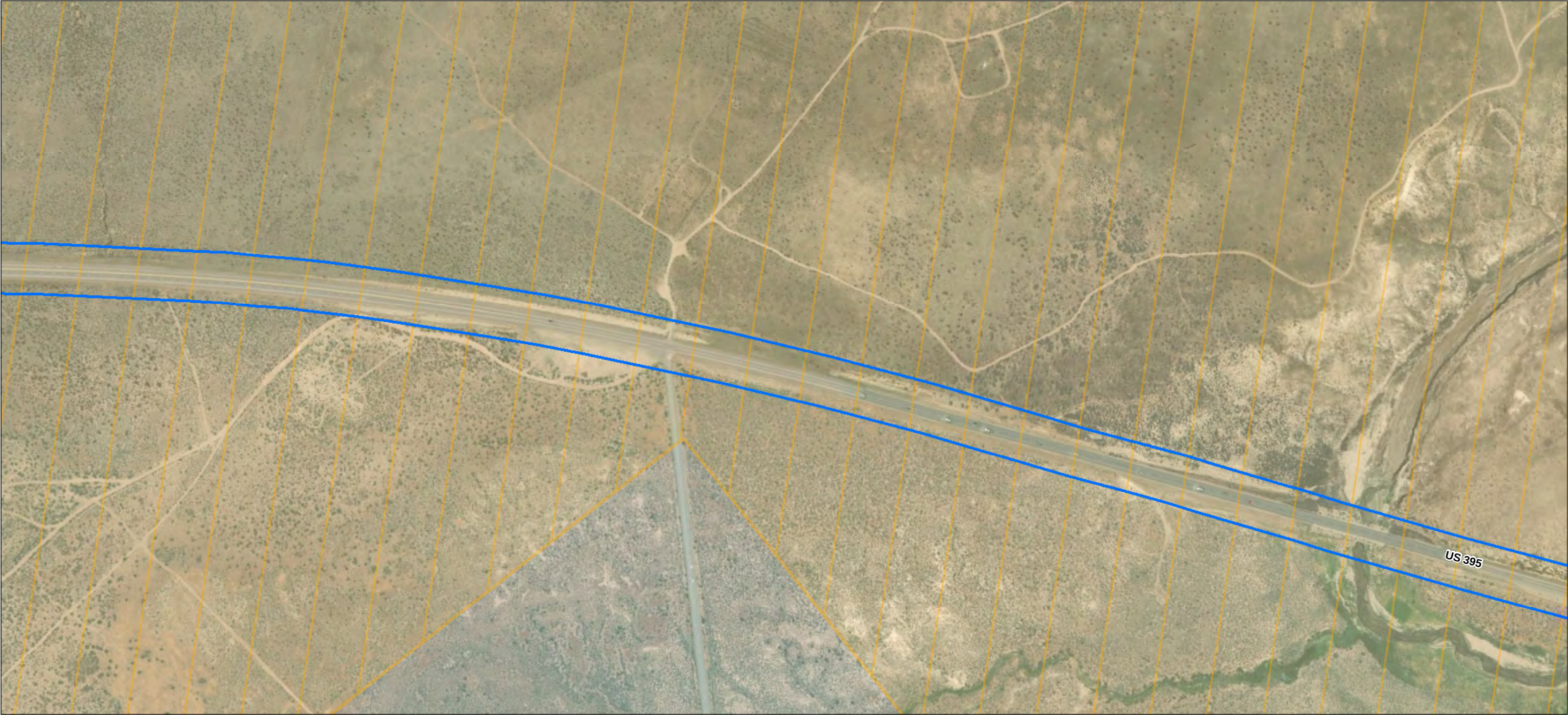
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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

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Special-Status Plant Occurrences

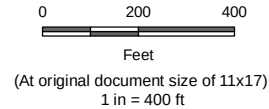


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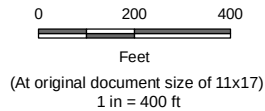


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Botanical Resources Report

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Figure No.
4

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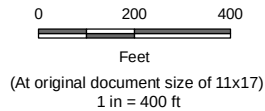


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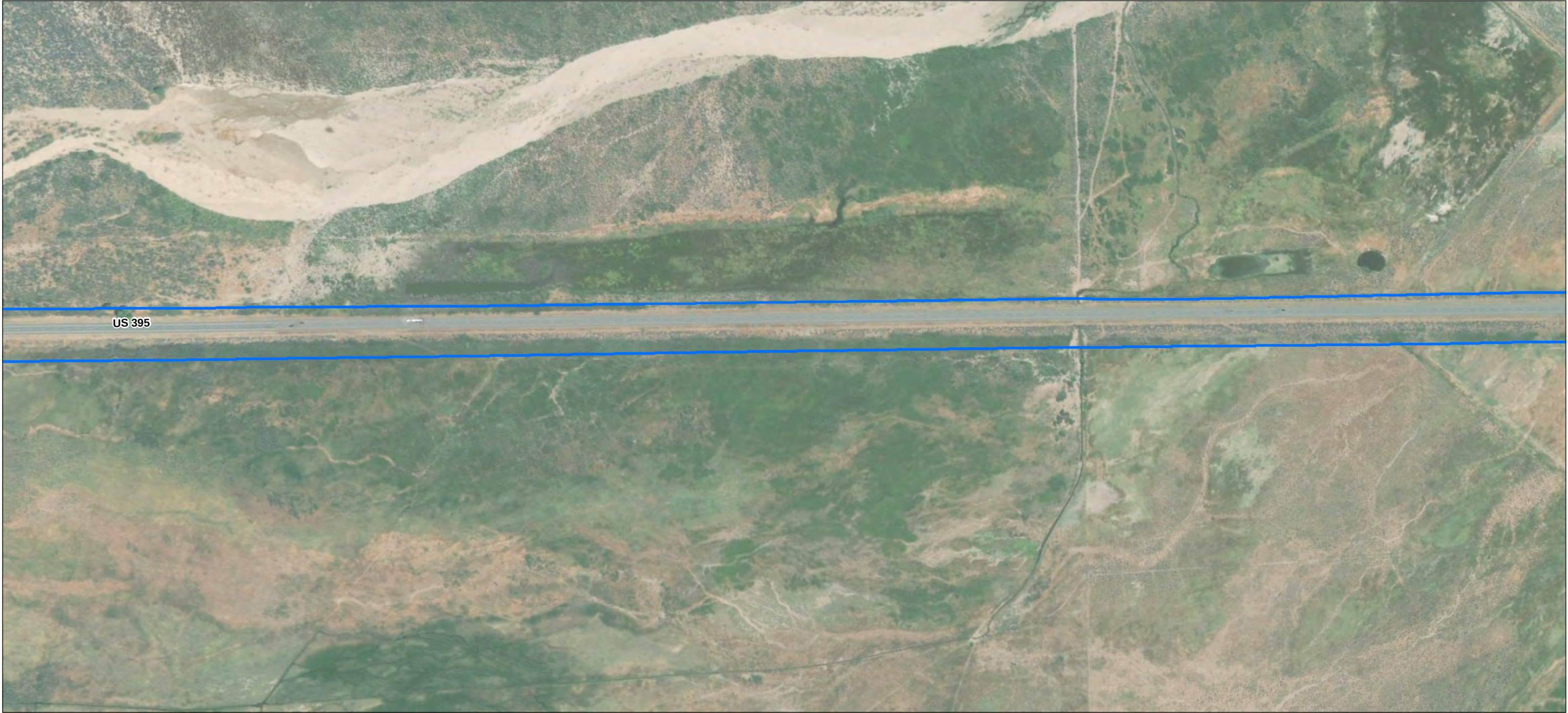
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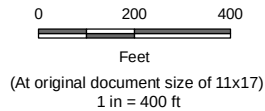


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Project Location
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Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)

2272020011

Botanical Resources Report

Figure No.

4

Title

Special-Status Plant Occurrences

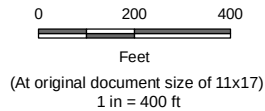


Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
2. Background: ESRI World Imagery web mapping service

- Botanical Survey Area
- CDFW
- BLM
- USFWS
- Special-Status Plants**
- ALPU (Allium punctum)
- ARFU (Arnica fulgens)
- ASAG (Astragalus agrestis)
- ASIOD (Astragalus iodonanthus var. diaphanoides)
- ASPUC (Astragalus pulsiferae var. coronensis)
- ATGAF (Atriplex gardneri var. falcata)
- CAAT (Carex atherodes)
- CASH (Carex sheldonii)
- CHCLC (Chylismia claviformis ssp. cruciformis)
- DOLA (Downingia laeta)

- ERBOA (Eremothera boothii var. alyssoides)
- EREAN (Erigeron eatonii var. nevadincola)
- EREL (Erigeron elegantulus)
- ERCO (Eriogonum collinum)
- ERNUN (Eriogonum nutans var. nutans)
- ERIN (Erythranthe inflatula)
- FRALM (Frasera albicaulis var. modocensis)
- HACU (Hackelia cusickii)
- HYLE (Hymenoxys lemmonii)
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- LOCA (Lomatium canbyi)
- LORAR (Lomatium ravenii var. ravenii)
- LORO (Lomatium roseanum)
- LUPUI (Lupinus pusillus var. intermontanus)

- MEOBO (Mertensia oblongifolia var. oblongifolia)
- PECE (Pedicularis centranthera)
- PESU (Penstemon sudans)
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- POSU (Polygala subspinoso)
- RUVE (Rumex venosus)
- STPI (Stachys pilosa)
- STVI (Stanleya viridiflora)
- STLAL (Stenotus lanuginosus var. lanuginosus)
- THMI (Thelypodium milleflorum)
- TRGYP (Trifolium gymnocarpon ssp. plummerae)
- VIPUA (Viola purpurea ssp. aurea)



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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
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Title
Special-Status Plant Occurrences



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Botanical Resources Report

Figure No.
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Title
Special-Status Plant Occurrences

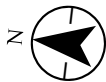


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- Special-Status Plants**
- ALPU (*Allium punctum*)
- ARFU (*Arnica fulgens*)
- ASAG (*Astragalus agrestis*)
- ASIOD (*Astragalus iodonanthus* var. *diaphanoides*)
- ASPUC (*Astragalus pulsifer* var. *coronensis*)
- ATGAF (*Atriplex gardneri* var. *falcata*)
- CAAT (*Carex atherodes*)
- CASH (*Carex sheldonii*)
- CHCLC (*Chylismia claviformis* ssp. *cruciformis*)
- DOLA (*Downingia laeta*)

- ERBOA (*Eremothera boothii* var. *alyssoides*)
- EREAN (*Erigeron eatonii* var. *nevadaincola*)
- EREL (*Erigeron elegantulus*)
- ERCO (*Eriogonum collinum*)
- ERNUN (*Eriogonum nutans* var. *nutans*)
- ERIN (*Erythranthe inflatula*)
- FRALM (*Frasera albicaulis* var. *modocensis*)
- HACU (*Hackelia cusickii*)
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- LALA (*Ladeania lanceolata*)
- LARI (*Lathyrus rigidus*)
- LOCA (*Lomatium canbyi*)
- LORAR (*Lomatium ravenii* var. *ravenii*)
- LORO (*Lomatium roseanum*)
- LUPUI (*Lupinus pusillus* var. *intermontanus*)

- MEOBO (*Mertensia oblongifolia* var. *oblongifolia*)
- PECE (*Pedicularis centranthera*)
- PESU (*Penstemon sudans*)
- POFRF (*Polycatenium fremontii* var. *fremontii*)
- POWI (*Polycatenium williamsiae*)
- POSU (*Polygala subspinososa*)
- RUVE (*Rumex venosus*)
- STPI (*Stachys pilosa*)
- STVI (*Stanleya viridiflora*)
- STLAL (*Stenotus lanuginosus* var. *lanuginosus*)
- THMI (*Thelypodium milleflorum*)
- TRGYP (*Trifolium gymnocarpon* ssp. *plummerae*)
- VIPUA (*Viola purpurea* ssp. *aurea*)



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2272020011

Botanical Resources Report

Figure No.
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Special-Status Plant Occurrences

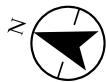
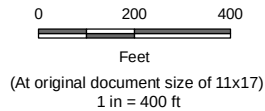


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Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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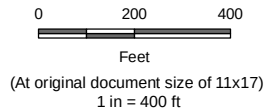


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Project Location
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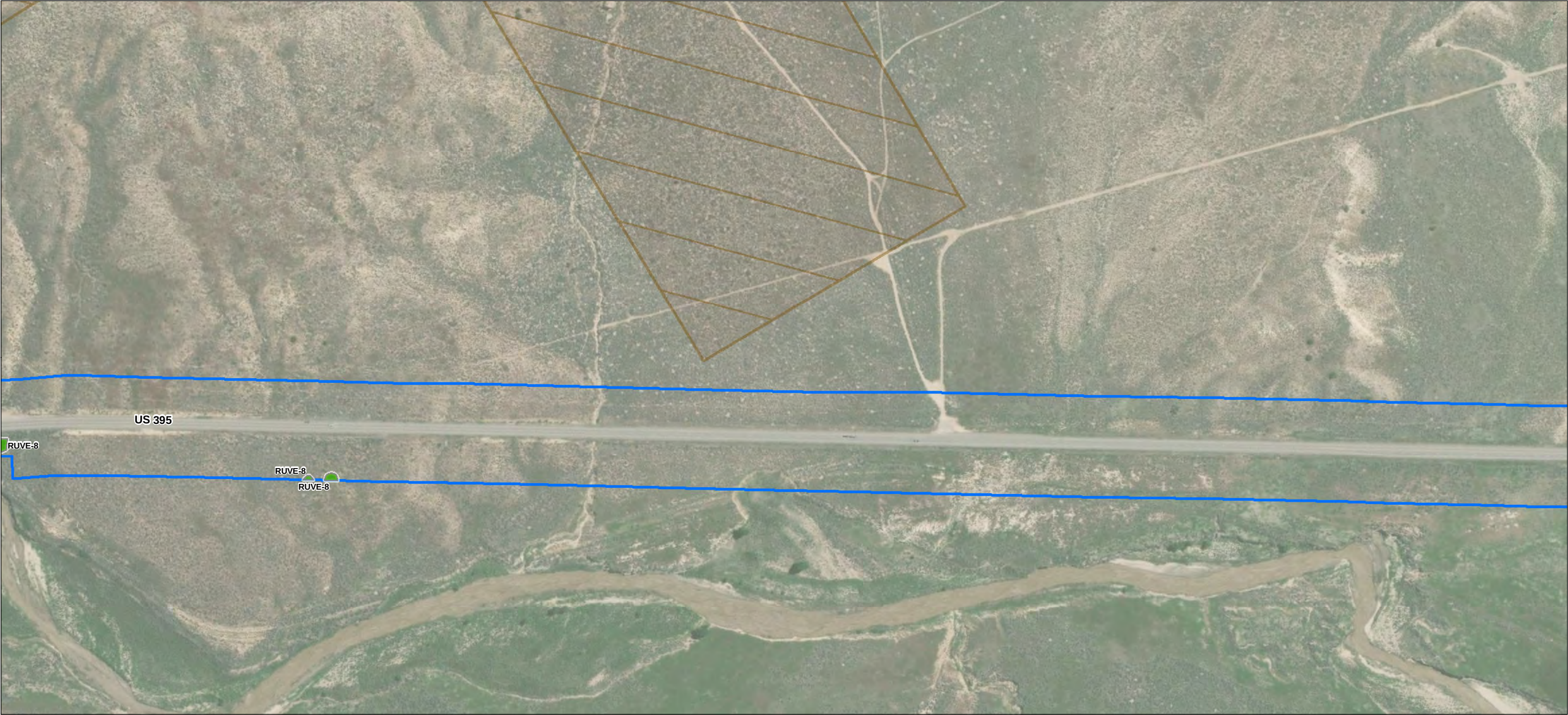
Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)

2272020011

Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

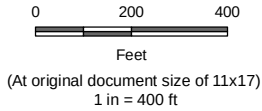


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Botanical Resources Report

Figure No.
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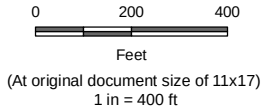
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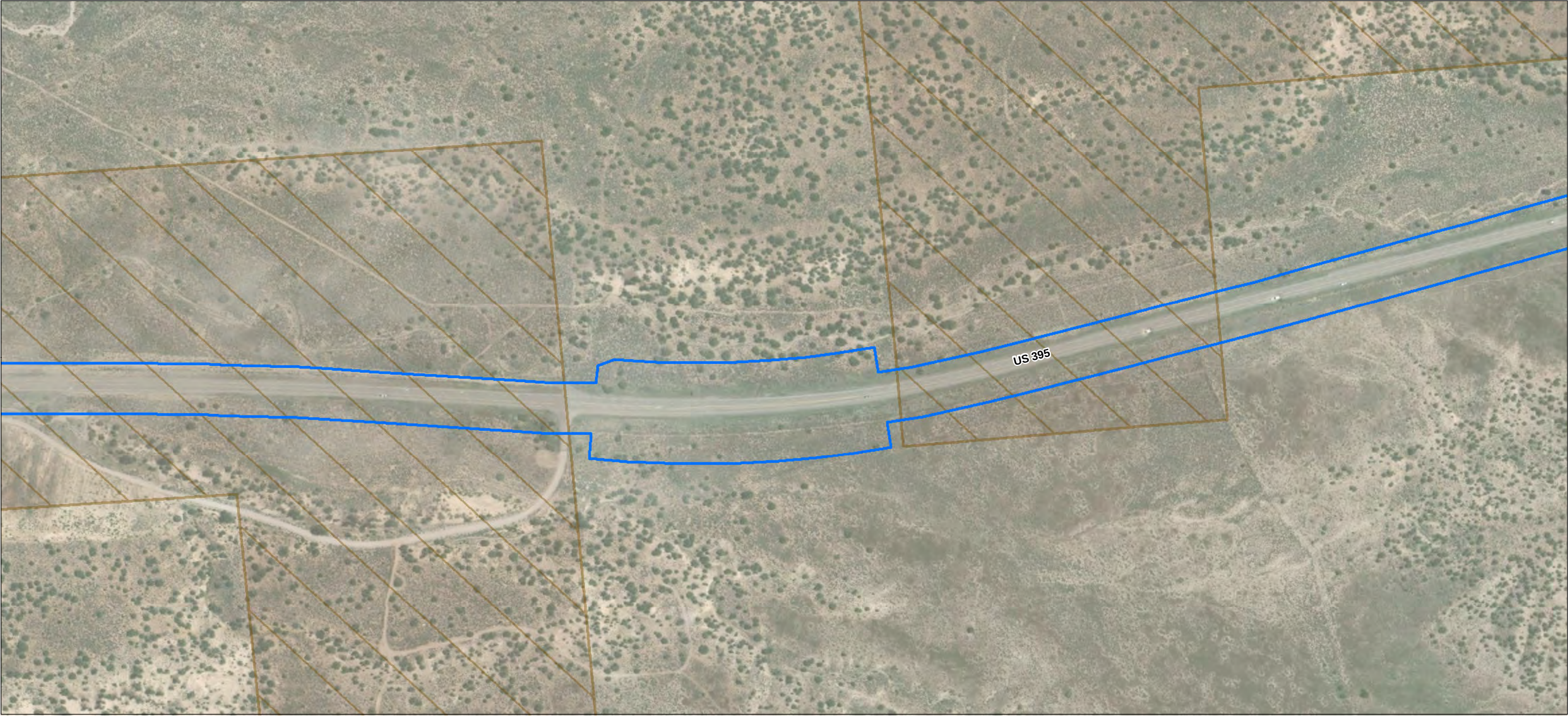
Client/Project 2272020011

Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No. 4

Title Special-Status Plant Occurrences

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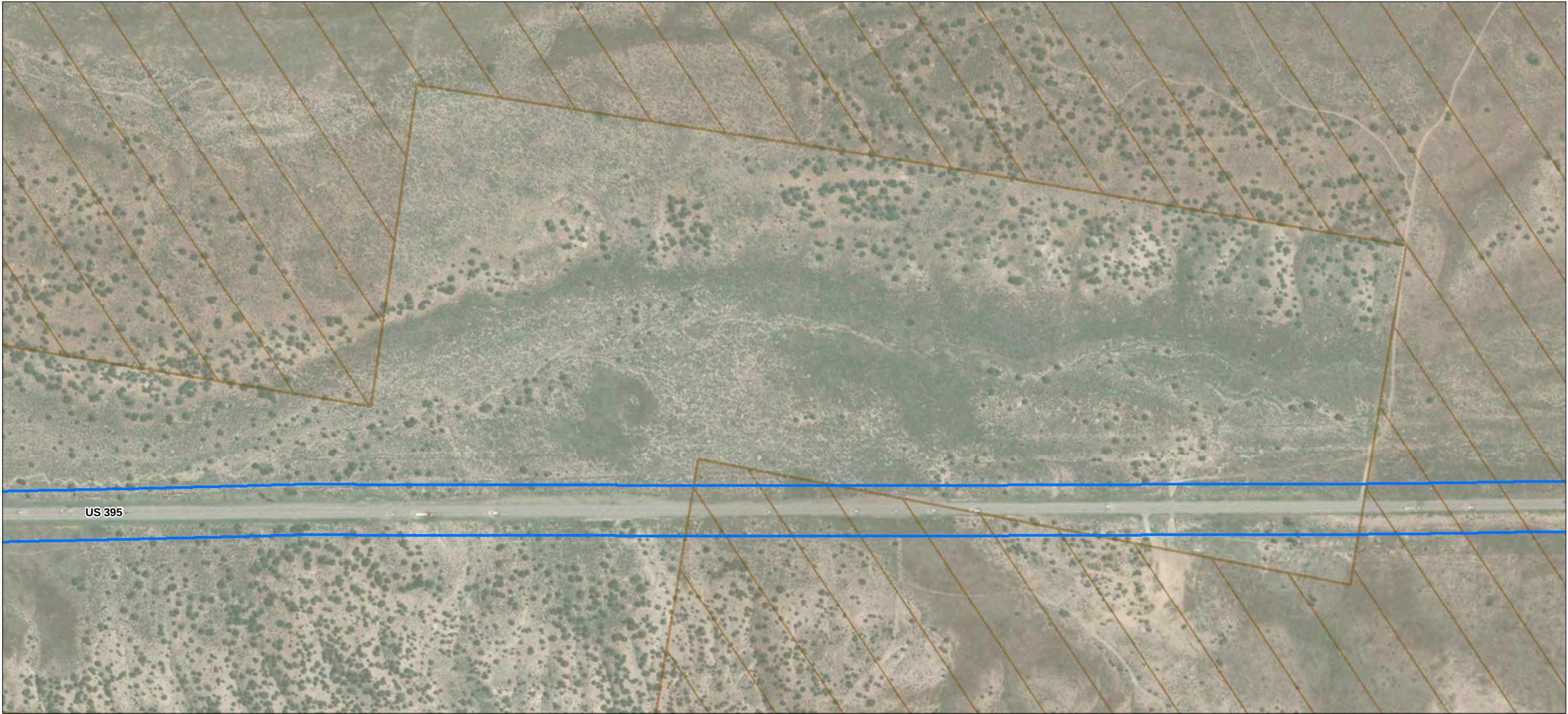
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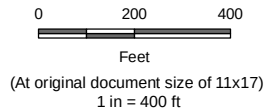


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Prepared by TM on 2020-08-28
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IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)

2272020011

Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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Notes
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 - ARFU (Arnica fulgens)
 - ASAG (Astragalus agrestis)
 - ASIOD (Astragalus iodonanthus var. diaphanoides)
 - ASPUC (Astragalus pulsifer var. coronensis)
 - ATGAF (Atriplex gardneri var. falcata)
 - CAAT (Carex atherodes)
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 - CHCLC (Chylismia claviformis ssp. cruciformis)
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- ERBOA (Eremothera boothii var. alyssoides)
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- ERIN (Erythranthe inflatula)
- FRALM (Fraseria albicaulis var. modocensis)
- HACU (Hackelia cusickii)
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- RUVE (Rumex venosus)
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- STVI (Stanleya viridiflora)
- STLAL (Stenotus lanuginosus var. lanuginosus)
- THMI (Thelypodium milleflorum)
- TRGYF (Trifolium gymnocarpon ssp. plummerae)
- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

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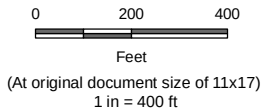


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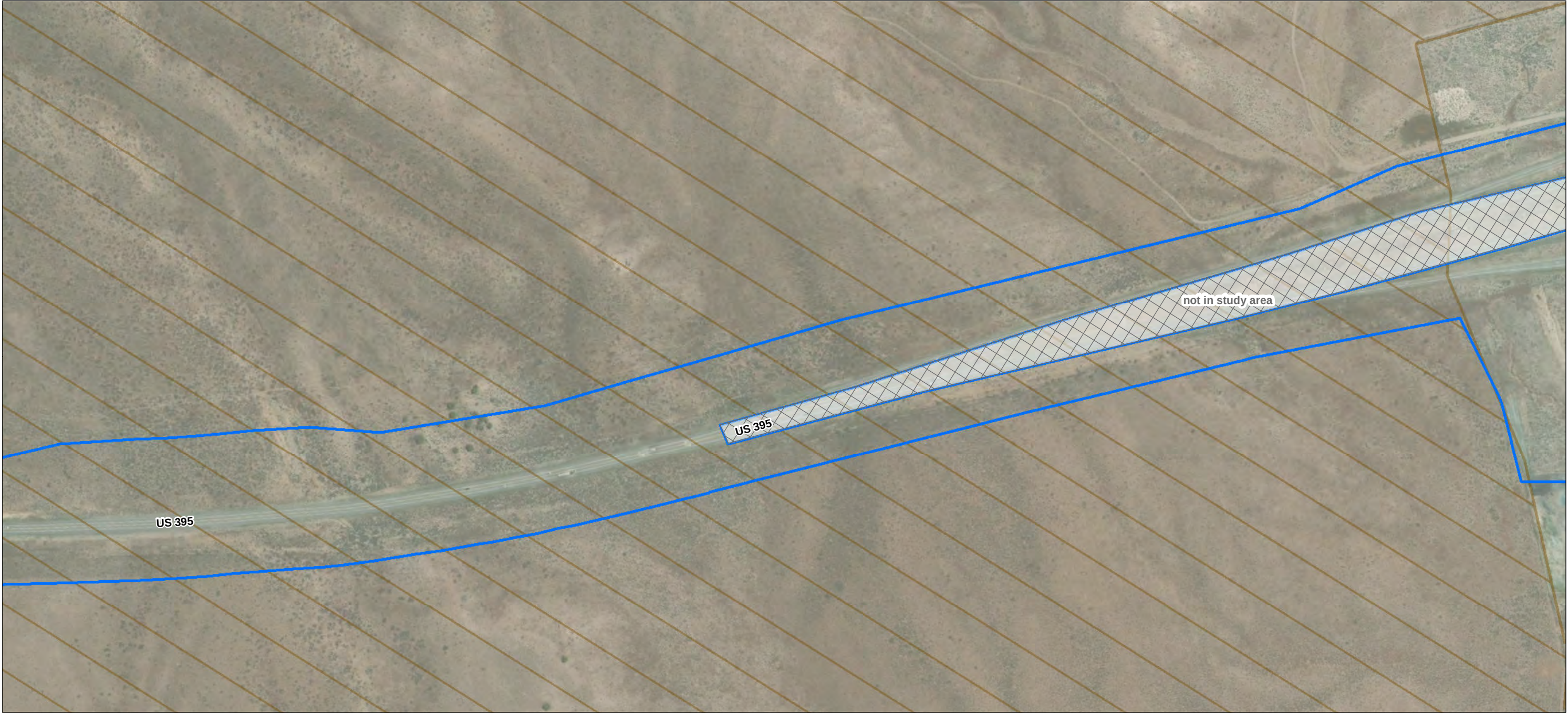
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Botanical Resources Report

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Special-Status Plant Occurrences

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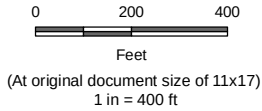


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Project Location
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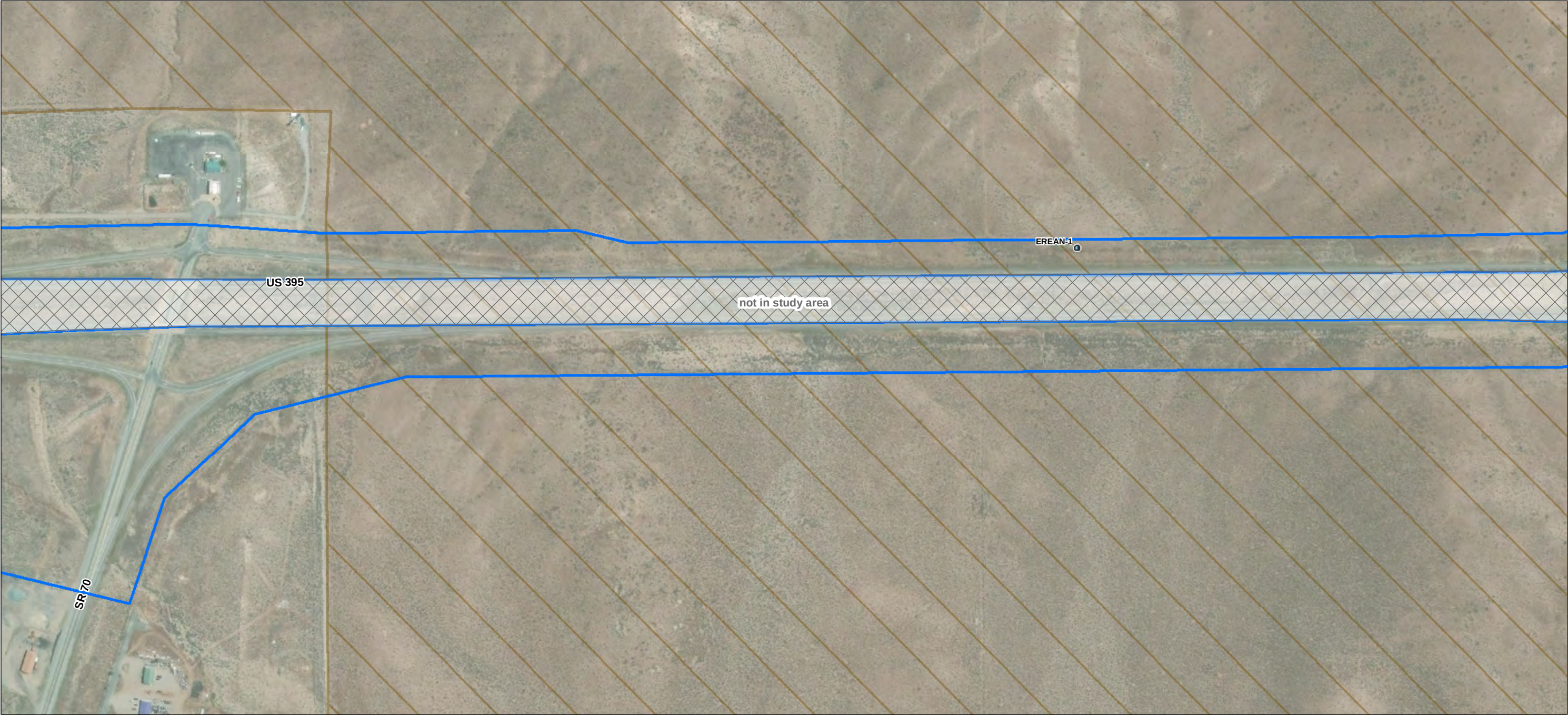
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Prineville to Reno Fiber Optic Project (California)

2272020011

Figure No.
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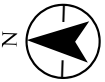


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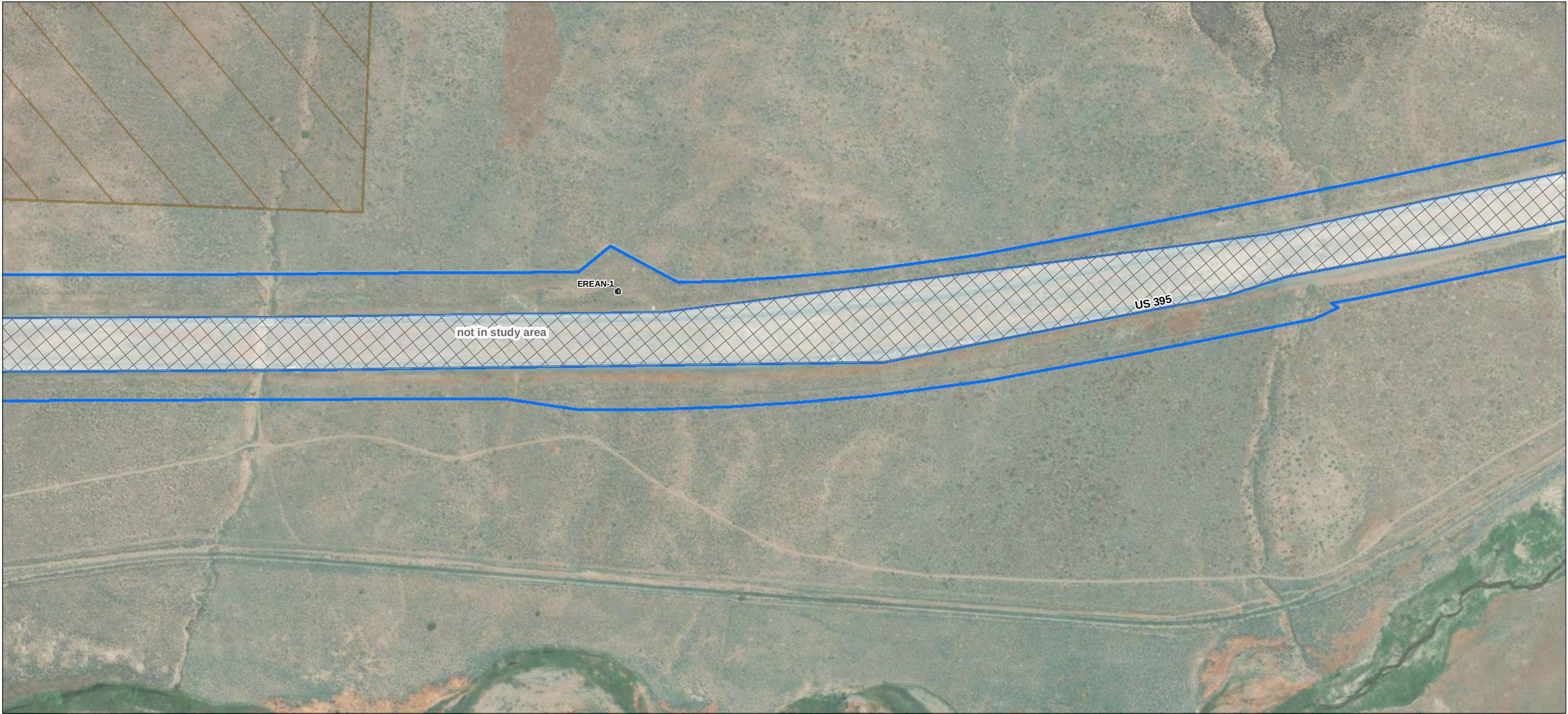
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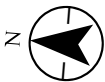
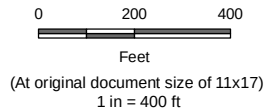


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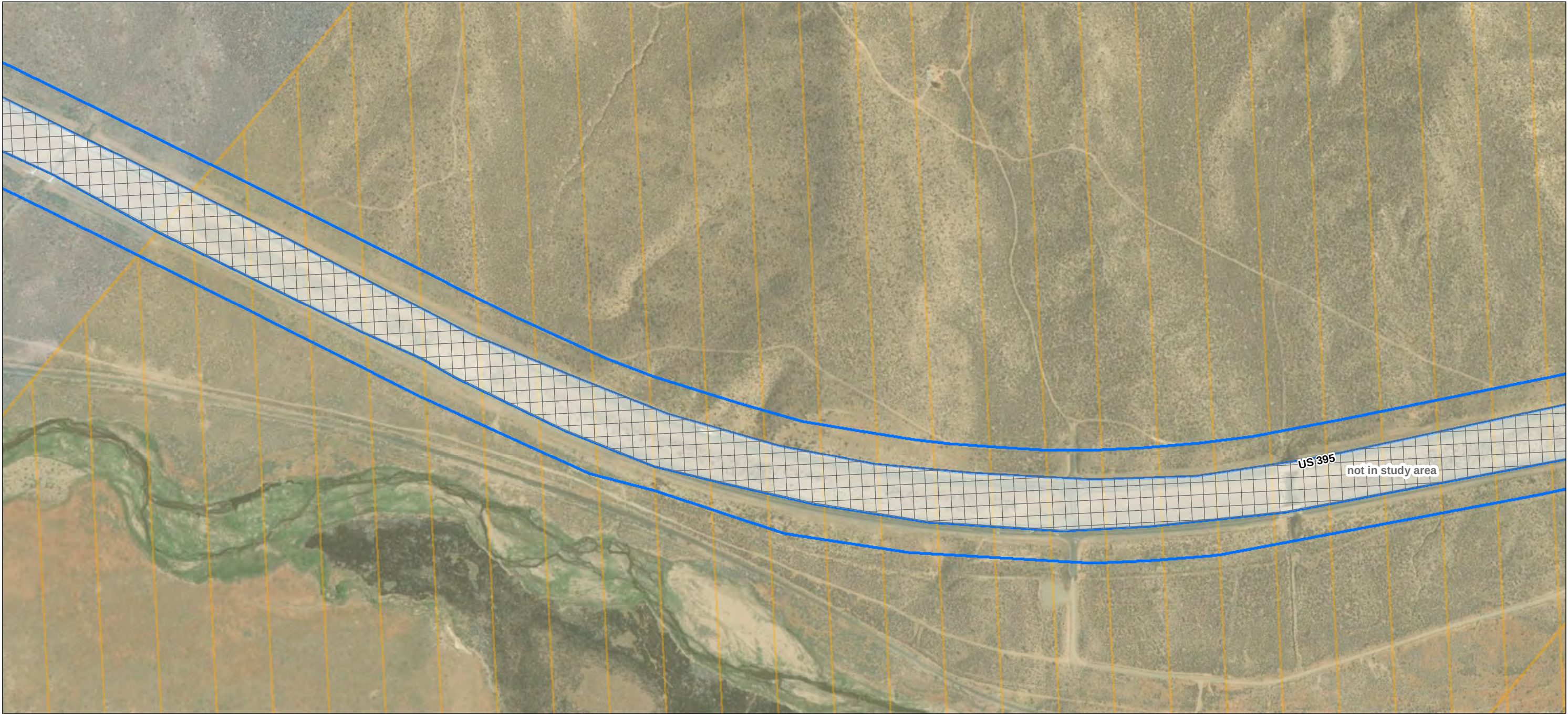
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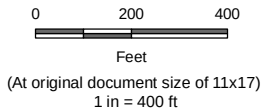


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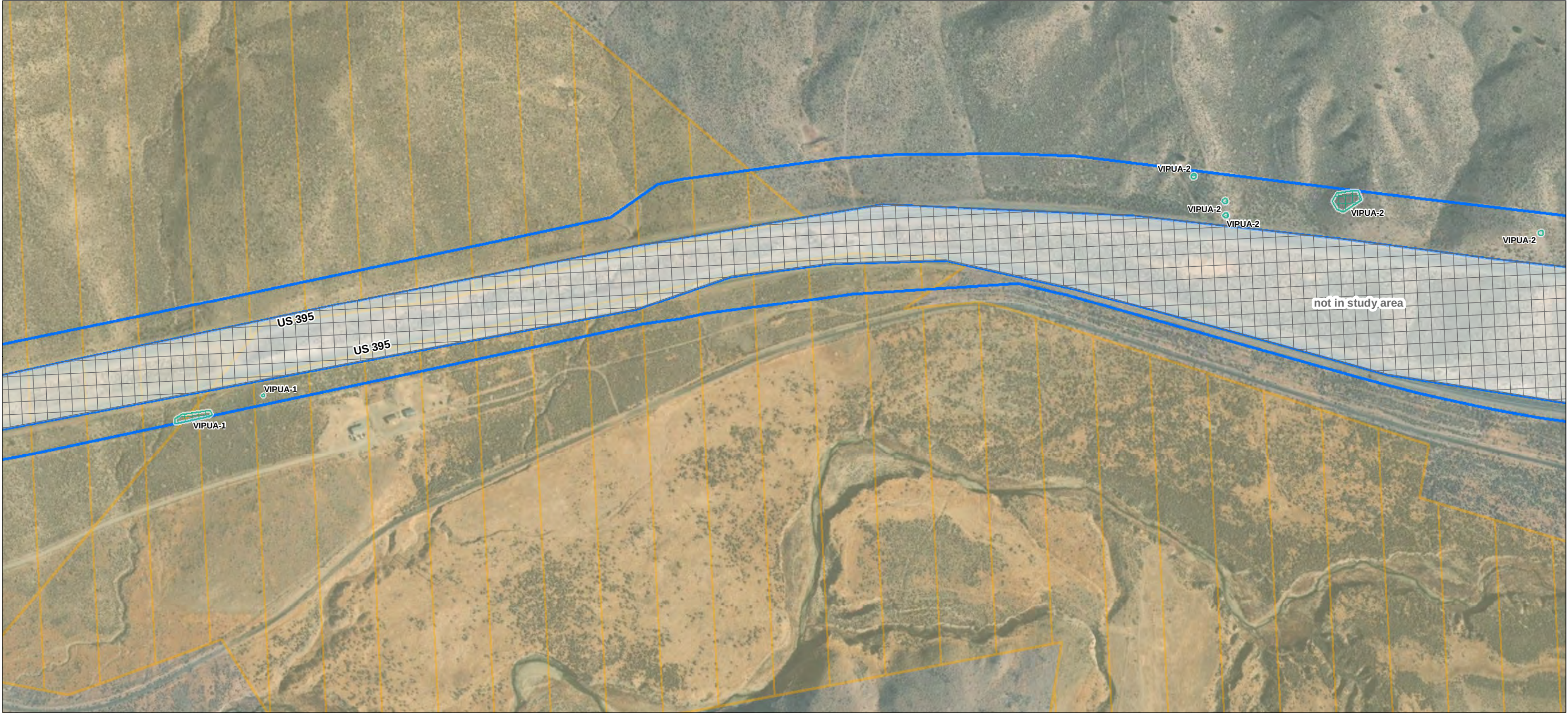
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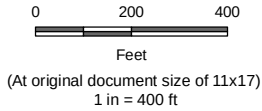
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- POSU (Polygala subspinosus)
- RUVE (Rumex venosus)
- STPI (Stachys pilosa)
- STVI (Stanleya viridiflora)
- STLAL (Stenotus lanuginosus var. lanuginosus)
- THMI (Thelypodium milleflorum)
- TRGYP (Trifolium gymnocarpon ssp. plummerae)
- VIPUA (Viola purpurea ssp. aurea)



Project Location
Modoc, Lassen, and Sierra Counties, California

Prepared by TM on 2020-08-28
TR by ST on 2020-08-28
IR by CS on 2020-08-31

Client/Project
Zayo Group LLC
Prineville to Reno Fiber Optic Project (California)
Botanical Resources Report

Figure No.
4

Title
Special-Status Plant Occurrences

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Revised: 2020-11-23 By: mooney



Notes
1. Coordinate System: NAD 1983 UTM Zone 10N
2. Background: ESRI World Imagery web mapping service

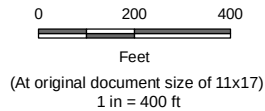
- Botanical Survey Area
- CDFW
- BLM
- USFWS

Special-Status Plants

- ALPU (Allium punctum)
- ARFU (Arnica fulgens)
- ASAG (Astragalus agrestis)
- ASIOD (Astragalus iodanthus var. diaphanoides)
- ASPUC (Astragalus pulsiferae var. coronensis)
- ATGAF (Atriplex gardneri var. falcata)
- CAAT (Carex atherodes)
- CASH (Carex sheldonii)
- CHCLC (Chylismia claviformis ssp. cruciformis)
- DOLA (Downingia laeta)

- ERBOA (Eremothera boothii var. alyssoides)
- EREAN (Erigeron eatonii var. nevadincola)
- EREL (Erigeron elegantulus)
- ERCO (Eriogonum collinum)
- ERNUN (Eriogonum nutans var. nutans)
- ERIN (Erythranthe inflatula)
- FRALM (Frasera albicaulis var. modocensis)
- HACU (Hackelia cusickii)
- HYLE (Hymenoxys lemmonii)
- LALA (Ladeania lanceolata)
- LARI (Lathyrus rigidus)
- LOCA (Lomatium canbyi)
- LORAR (Lomatium ravenii var. ravenii)
- LORO (Lomatium roseanum)
- LUPUI (Lupinus pusillus var. intermontanus)

- MEOBO (Mertensia oblongifolia var. oblongifolia)
- PECE (Pedicularis centranthera)
- PESU (Penstemon sudans)
- POFRF (Polycytenium fremontii var. fremontii)
- POWI (Polycytenium williamsiae)
- POSU (Polygala subspinosus)
- RUVE (Rumex venosus)
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Special-Status Plant Occurrences