

Vegetation Communities in the Study Area

Alliance	Association	Sensitive Natural Community	Map ID	Area (Acres)
<sup>1</sup> A Manual of California Vegetation Alliances and Associations				
Forests and Woodlands				
Western juniper woodland	<sup>6</sup> <i>Juniperus occidentalis</i> / <i>Artemisia arbuscula</i> – <i>Purshia tridentata</i> / <i>Festuca idahoensis</i>	<sup>6</sup> No	16.01	19.9
	<sup>6</sup> <i>Juniperus occidentalis</i> / <i>Artemisia arbuscula</i> / <i>Poa secunda</i>	<sup>6</sup> No	16.02	117.3
	<sup>6</sup> <i>Juniperus occidentalis</i> / <i>Artemisia arbuscula</i> / <i>Stipa thurberiana</i>	<sup>6</sup> No	16.03	0.4
	<sup>6</sup> <i>Juniperus occidentalis</i> / <i>Artemisia tridentata</i> – <i>Purshia tridentata</i>	<sup>6</sup> No	16.04	232.2
	<i>Juniperus occidentalis</i> – ( <i>Pinus jeffreyi</i> – <i>Pinus ponderosa</i> ) / <i>Cercocarpus ledifolius</i>	No	16.05	3.4
	<sup>6</sup> <i>Juniperus occidentalis</i> / <i>Poa secunda</i> – <i>Elymus elymoides</i>	<sup>6</sup> No	16.06	4.7
	<i>Juniperus occidentalis</i>	No	16.07	43.5
	<i>Juniperus occidentalis</i> - <i>Pinus jeffreyi</i> / ( <i>Purshia tridentata</i> )	No	16.08	12.0
Jeffrey pine forest	<i>Pinus jeffreyi</i> / <i>Purshia tridentata</i>	Yes	19.01	6.5
aspen groves	<i>Populus tremuloides</i> / <i>Symphoricarpos rotundifolius</i>	Yes	21	0.5
black cottonwood forest	<i>Populus trichocarpa</i>	Yes	22	0.2
Shrublands				
little sagebrush scrub	<sup>6</sup> <i>Artemisia arbuscula</i> ssp. <i>arbuscula</i> / <i>Bromus</i> spp. – <sup>8</sup> <i>Elymus caput-medusae</i>	<sup>6</sup> No	5.01	83.5
	<sup>3</sup> <i>Artemisia arbuscula</i> ssp. <i>arbuscula</i> / <i>Poa secunda</i>	<sup>3</sup> Yes	5.02	192.0
silver sagebrush scrub	<sup>2</sup> <i>Artemisia cana</i> (ssp. <i>bolanderi</i> , ssp. <i>viscidula</i> ) / <i>Poa secunda</i>	<sup>2</sup> Yes	6	0.9
big sagebrush	<sup>6</sup> <i>Artemisia tridentata</i> – <i>Ephedra viridis</i> / <i>Pseudoroegneria spicata</i>	<sup>6</sup> No	7.01	17.2
	<sup>6</sup> <i>Artemisia tridentata</i> – <i>Ericameria nauseosa</i> / <i>Bromus tectorum</i>	<sup>6</sup> No	7.02	997.2

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	<sup>6</sup> <i>Artemisia tridentata</i> / <i>Bromus tectorum</i>	<sup>6</sup> No	7.04	131.1
	<sup>6</sup> <i>Artemisia tridentata</i> / <i>Distichlis spicata</i>	<sup>6</sup> No	7.05	0.8
	<i>Artemisia tridentata</i>	No	7.06	860.1
	<sup>6</sup> <i>Artemisia tridentata</i> ssp. <i>wyomingensis</i> – <i>Peraphyllum ramosissimum</i>	<sup>6</sup> No	7.08	2.2
	<sup>6</sup> <i>Artemisia tridentata</i> ssp. <i>wyomingensis</i> / <i>Stipa thurberiana</i> – <i>Poa secunda</i>	<sup>6</sup> No	7.09	22.0
mountain big sagebrush	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	No	36	29.6
rubber rabbitbrush scrub	<sup>6</sup> <i>Ericameria nauseosa</i> / <i>Bromus tectorum</i>	<sup>6</sup> No	14.01	121.3
	<i>Ericameria nauseosa</i>	No	14.02	18.5
bitter cherry thickets	<i>Prunus emarginata</i>	No	23	1.0
<sup>3</sup> Klamath plum thickets	<sup>3</sup> <i>Prunus subcordata</i> / <sup>7</sup> <i>Elymus cinereus</i>	<sup>3</sup> No	24	0.2
bitterbrush scrub	<sup>2</sup> <i>Purshia tridentata</i> – <i>Artemisia arbuscula</i>	<sup>2</sup> Yes	25.01	22.5
	<i>Purshia tridentata</i> – <i>Artemisia tridentata</i> – <i>Tetradymia canescens</i>	Yes	25.02	37.0
	<sup>2</sup> <i>Purshia tridentata</i> – <i>Artemisia tridentata</i> / <i>Bromus tectorum</i>	<sup>2</sup> Yes	25.03	4.5
	<i>Purshia tridentata</i> – <i>Artemisia tridentata</i>	Yes	25.04	431.7
	<sup>2</sup> <i>Purshia tridentata</i> – <i>Prunus subcordata</i>	<sup>2</sup> Yes	25.05	1.3
interior rose thickets	<i>Rosa woodsii</i>	Yes	26	7.6
sandbar willow thickets	<sup>6</sup> <i>Salix exigua</i> / <i>Juncus balticus</i>	<sup>6</sup> No	27.01	10.1
	<i>Salix exigua</i>	No	27.02	35.8
shining willow groves	<sup>2</sup> <i>Salix lucida</i> – <i>Rosa woodsii</i> / <i>Mixed Herbs</i>	<sup>2</sup> Yes	28	3.6
greasewood scrub	<sup>3</sup> <i>Sarcobatus vermiculatus</i> – <i>Artemisia tridentata</i>	<sup>3</sup> Yes	29.01	198.0
	<i>Sarcobatus vermiculatus</i>	No	29.02	11.1

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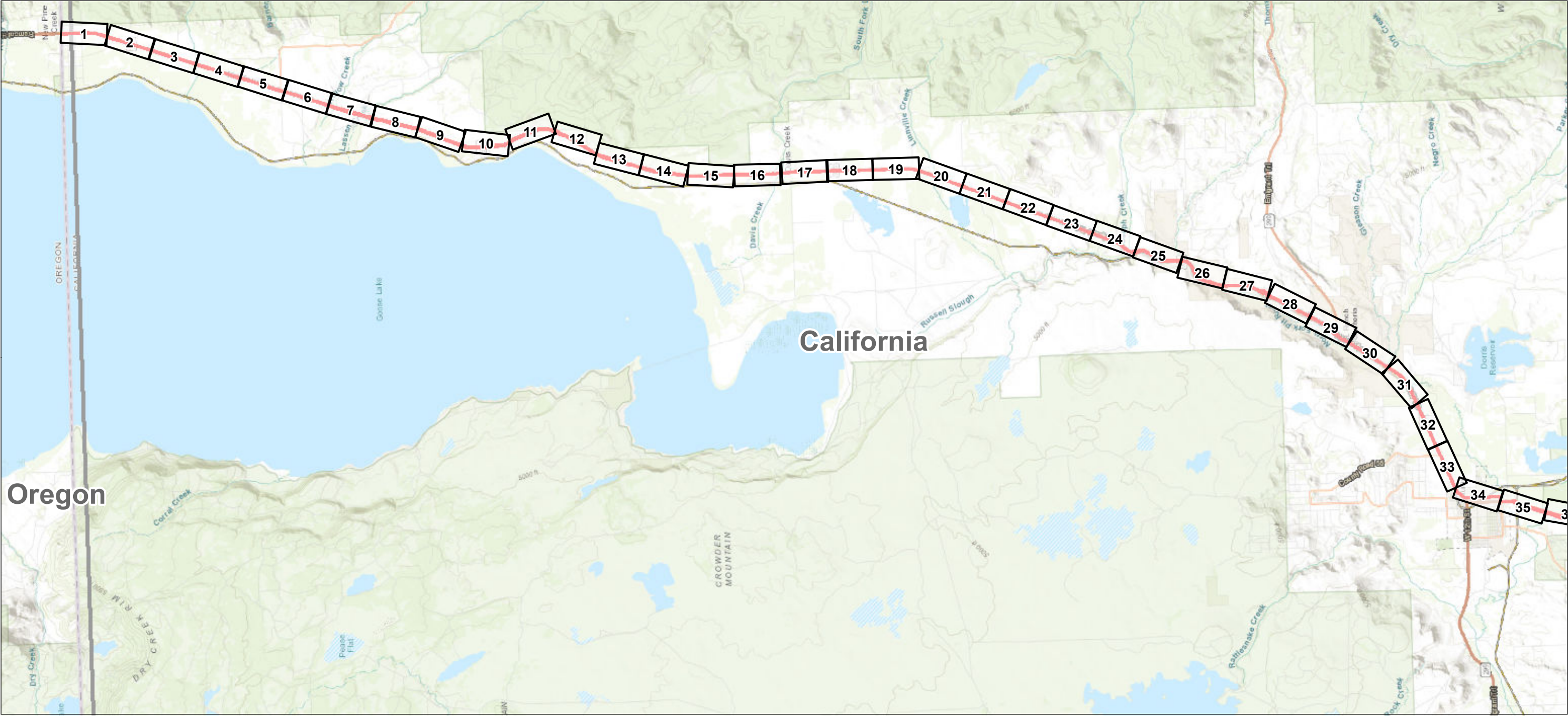
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Herbaceous Vegetation				
crested wheatgrass rangelands	<i>Agropyron cristatum</i>	No	2	33.1
<sup>6</sup> meadow foxtail meadows	<sup>6</sup> <i>Alopecurus pratensis</i>	<sup>6</sup> No	3	263.1
cheatgrass grassland	<sup>5</sup> <i>Bromus tectorum</i> – <i>Agropyron cristatum</i>	<sup>5</sup> No	8.01	11.0
	<i>Bromus tectorum</i> – <sup>8</sup> <i>Elymus caput-medusae</i>	No	8.02	70.1
	<sup>5</sup> <i>Bromus tectorum</i>	<sup>5</sup> No	8.03	302.4
<sup>3</sup> Sheldon's sedge patch	<sup>3</sup> <i>Carex sheldonii</i> – <sup>7</sup> <i>Elymus cinereus</i>	<sup>3</sup> Yes	9	3.4
<sup>3</sup> one spike oat grass meadows	<sup>3</sup> <i>Danthonia unispicata</i> – <i>Poa secunda</i>	<sup>3</sup> Yes	10	7.5
ashy ryegrass meadows	<sup>2,7</sup> <i>Elymus cinereus</i> – <i>Alopecurus geniculatus</i>	<sup>2</sup> Yes	11.01	22.6
	<sup>7</sup> <i>Elymus cinereus</i>	Yes	11.02	43.6
blue wild rye montane meadows	<sup>6</sup> <i>Elymus glaucus</i> — <i>Medicago sativa</i>	<sup>6</sup> No	12	45.5
<sup>5</sup> blue bunch wheat grass meadows	<i>Pseudoroegneria spicata</i> – <i>Poa secunda</i>	Yes	13	15.3
Baltic rush marshes	<i>Juncus arcticus</i> ssp. <i>balticus</i>	No	15	46.1
reed canary grass swards	<i>Phalaris arundinacea</i>	No	18	0.03
hardstem bulrush marshes	<i>Schoenoplectus acutus</i>	Yes	30	0.1
American bulrush marsh	<i>Schoenoplectus americanus</i>	Yes	31	0.1
<sup>3</sup> needle-and-thread grassland	<sup>3</sup> <i>Stipa comata</i>	<sup>3</sup> Yes	32	0.7
<sup>3</sup> tansyleaf evening primrose patch	<sup>3</sup> <i>Taraxia tanacetifolia</i> – <i>Iva axillaris</i>	<sup>3</sup> Yes	33	70.3
broadleaf cattail marsh	<i>Typha latifolia</i>	No	34	0.3
Other				
<sup>6</sup> agriculture	No Association	<sup>6</sup> No	1	42.7
<sup>5</sup> anthropogenic areas of little or no vegetation	No Association	<sup>5</sup> No	4	1275.5
<sup>5</sup> perennial stream channel (open water)	No Association	<sup>5</sup> No	17	21.3
<sup>5</sup> planted trees and shrubs	No Association	<sup>5</sup> No	20	1.5
<sup>5</sup> Western North American sparsely vegetated rivershore	No Association	<sup>5</sup> No	35	6.7


Notes:

<sup>1</sup>A Manual of California Vegetation (California Native Plant Society 2019)  
<sup>2</sup>Association not described in the MCV but is included within an existing alliance in MCV that is designated as sensitive  
<sup>3</sup>Association not described in the MCV but is presumed sensitive because it is similar to other sensitive associations under the alliance or is dominated by uncommon native species.  
<sup>4</sup>Not described in MCV, corresponds to a vegetation type in Holland.  
<sup>5</sup>Not described in MCV and dominated by invasive/non-native species (or barren, urban, or open water).  
<sup>6</sup>Not described in MCV or in Holland. Insufficient data to determine sensitivity.  
<sup>7</sup>*Leymus cinereus* is no longer an active name, though it is still used in the MCV. *Elymus cinereus* is used exclusively to reflect current nomenclature.  
<sup>8</sup>*Taeniatherum caput-medusae* is no longer an active name, though it is still used in the MCV. *Elymus caput-medusae* is used here to reflect current nomenclature.

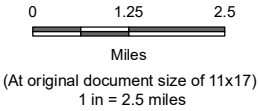


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 Study Area

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



**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)  
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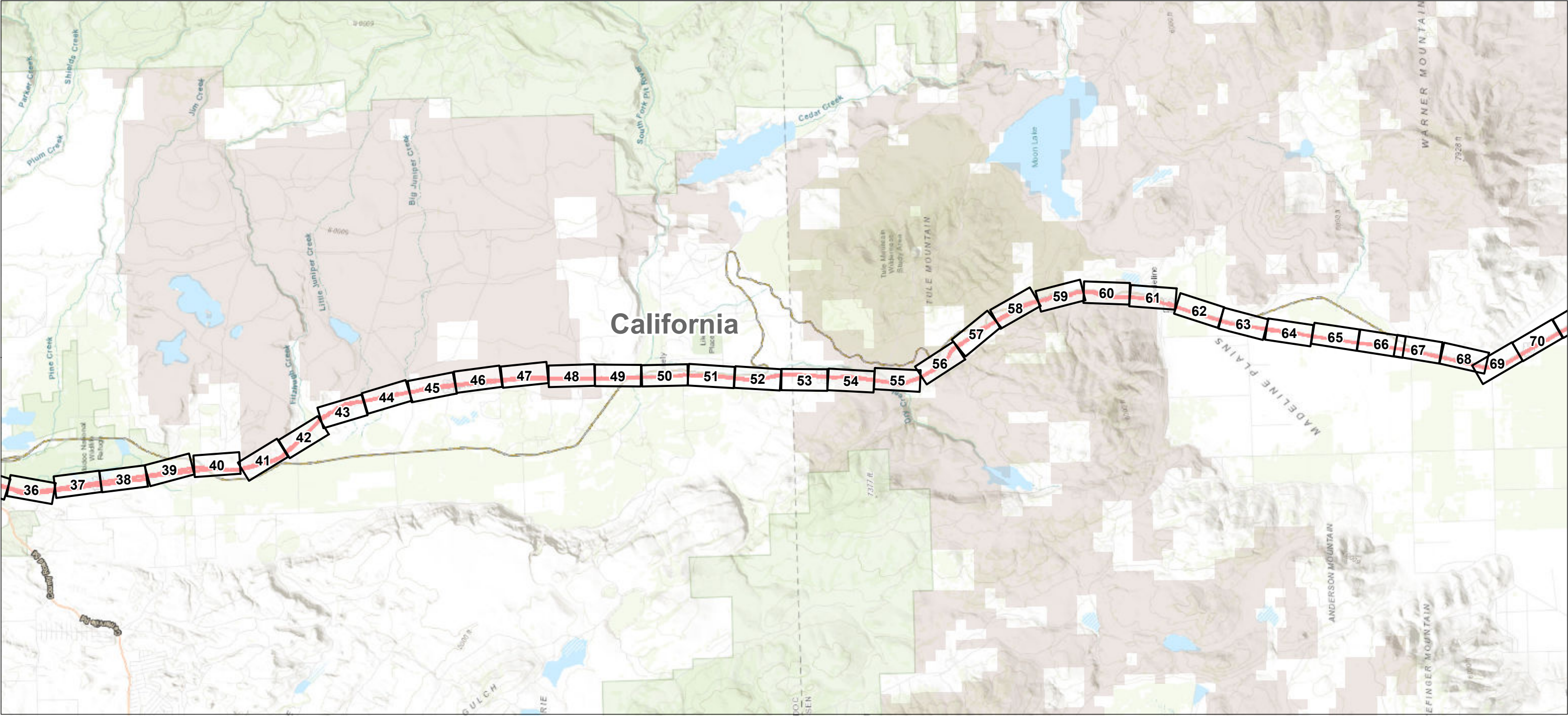
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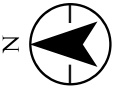
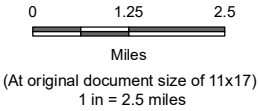


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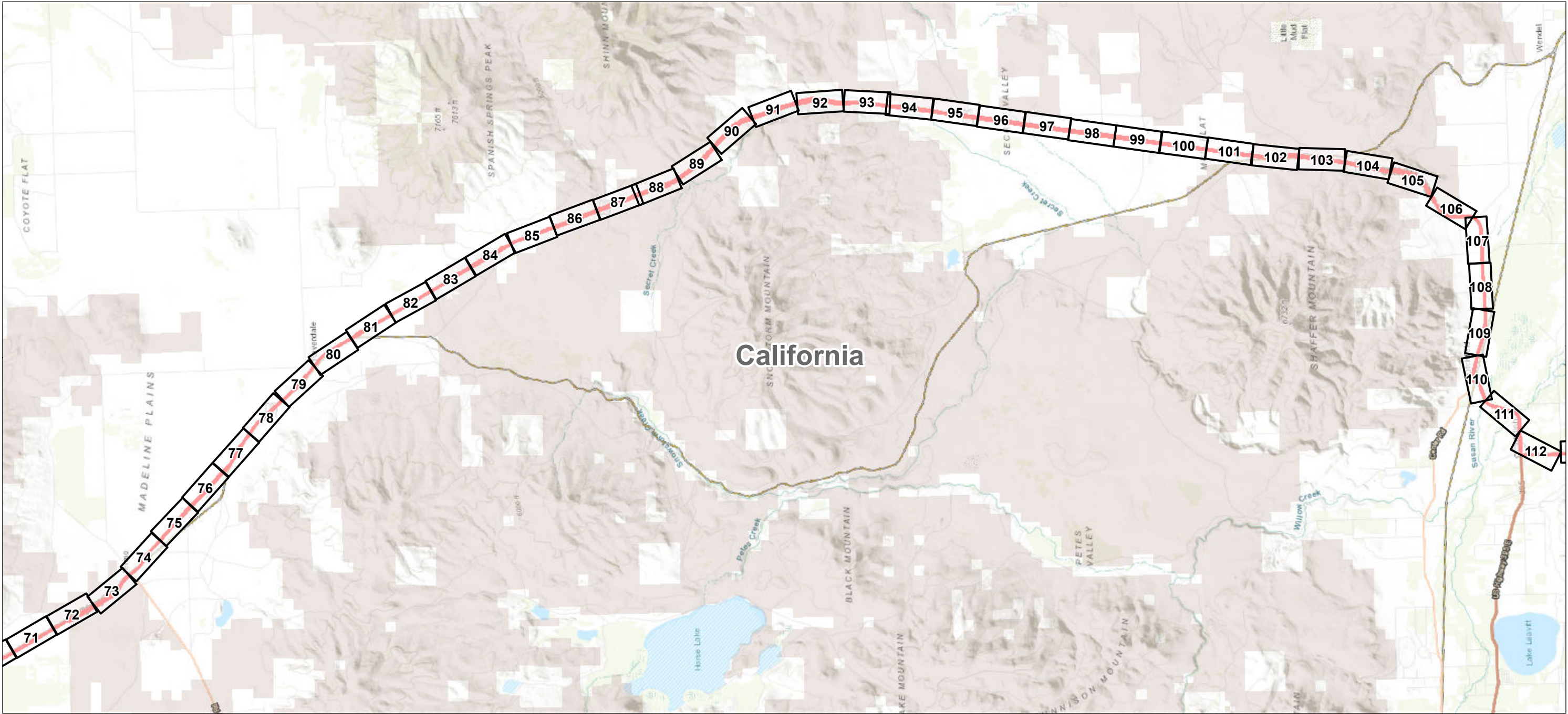
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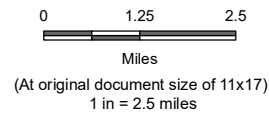


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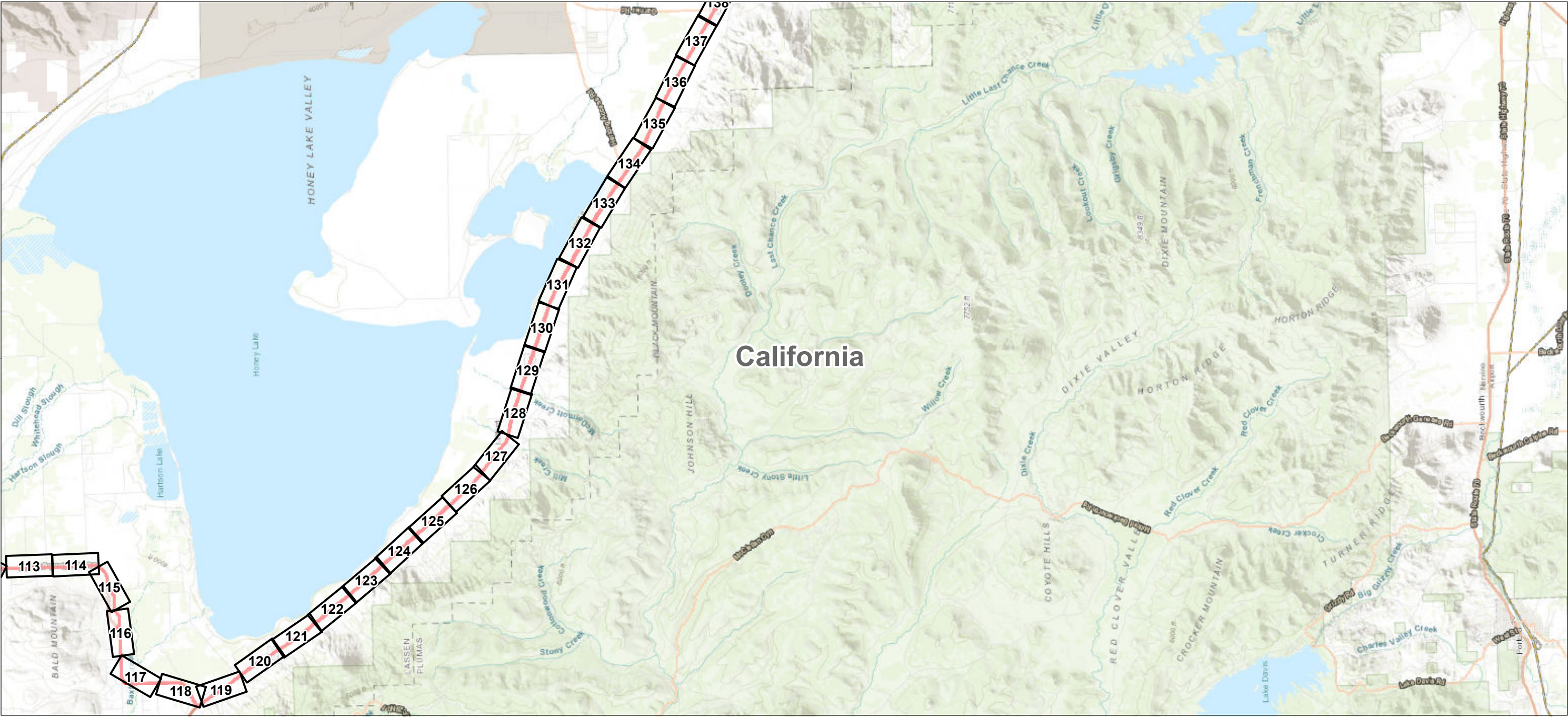
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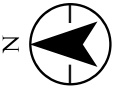
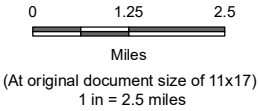


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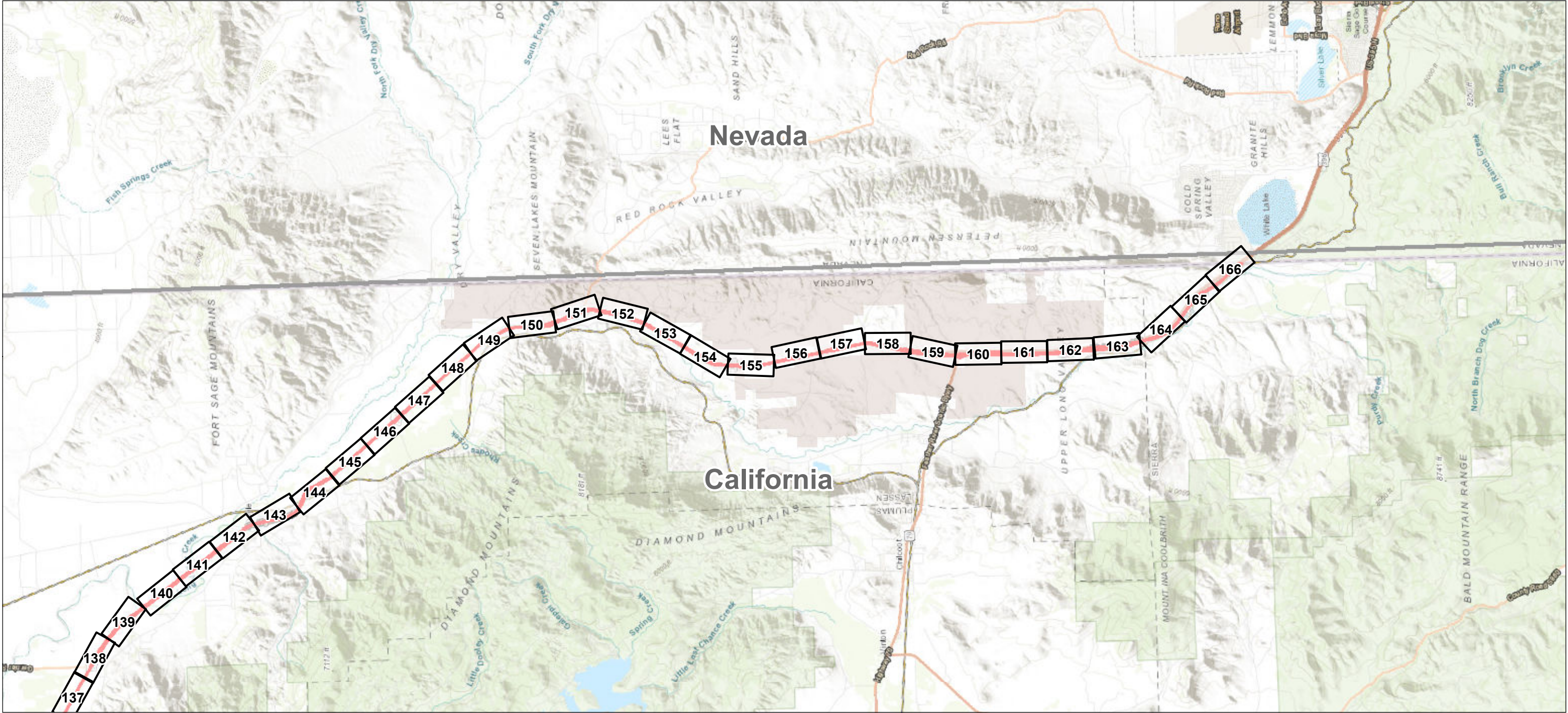
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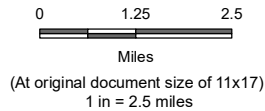


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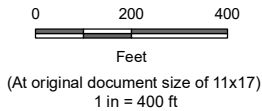
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**Natural Community Boundary**

- Sensitive
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(See attached table for Map ID and corresponding vegetation alliances and associations)



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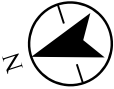
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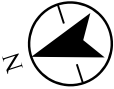
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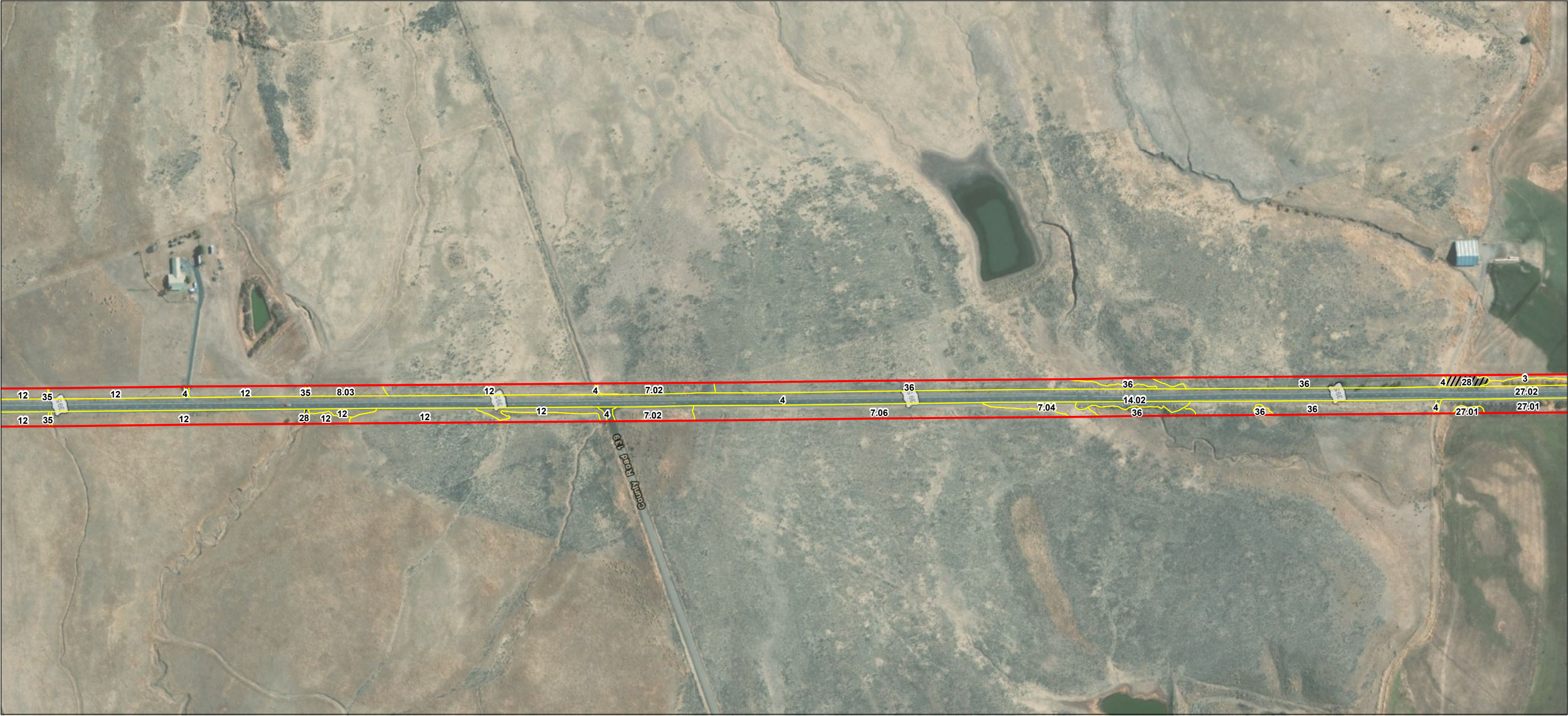
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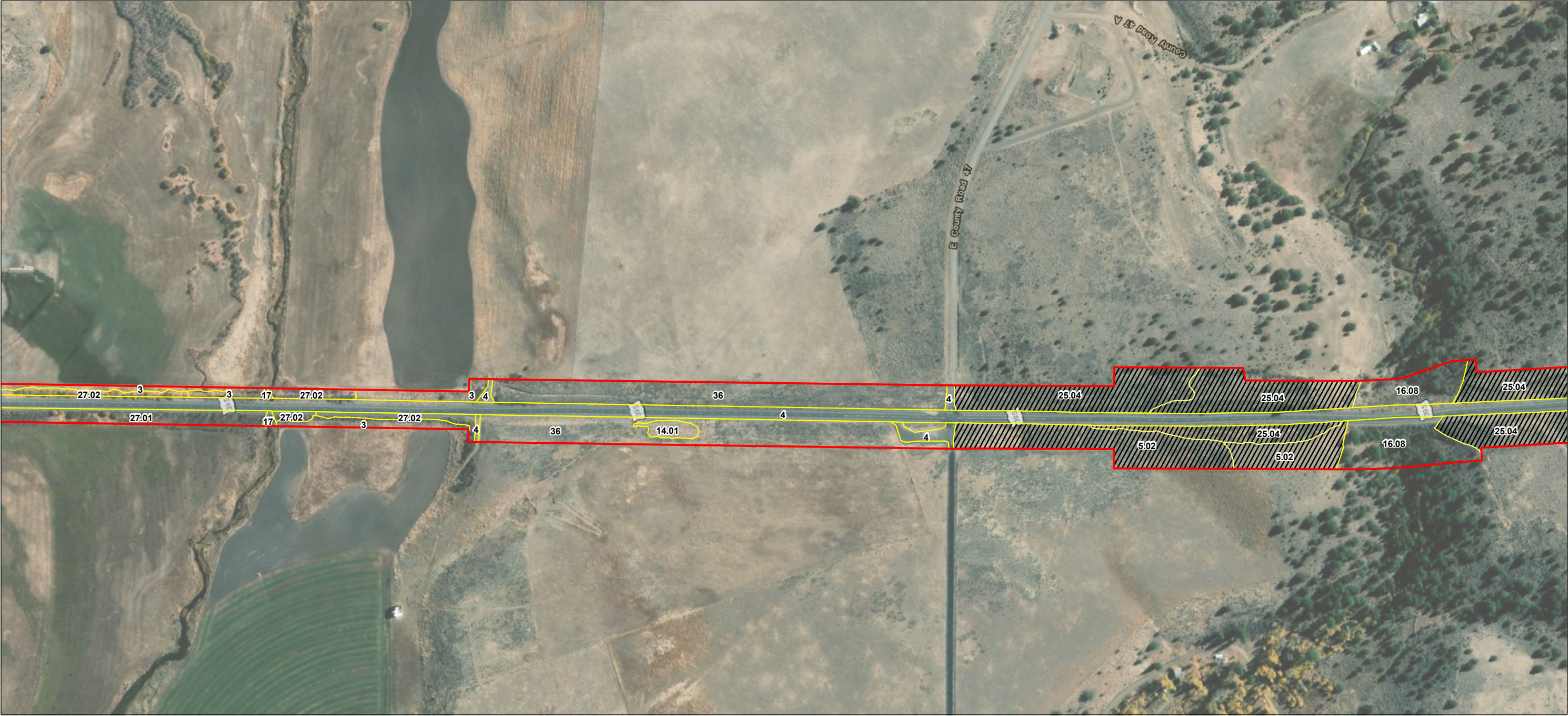
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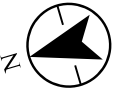
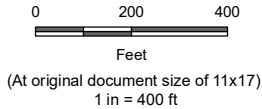
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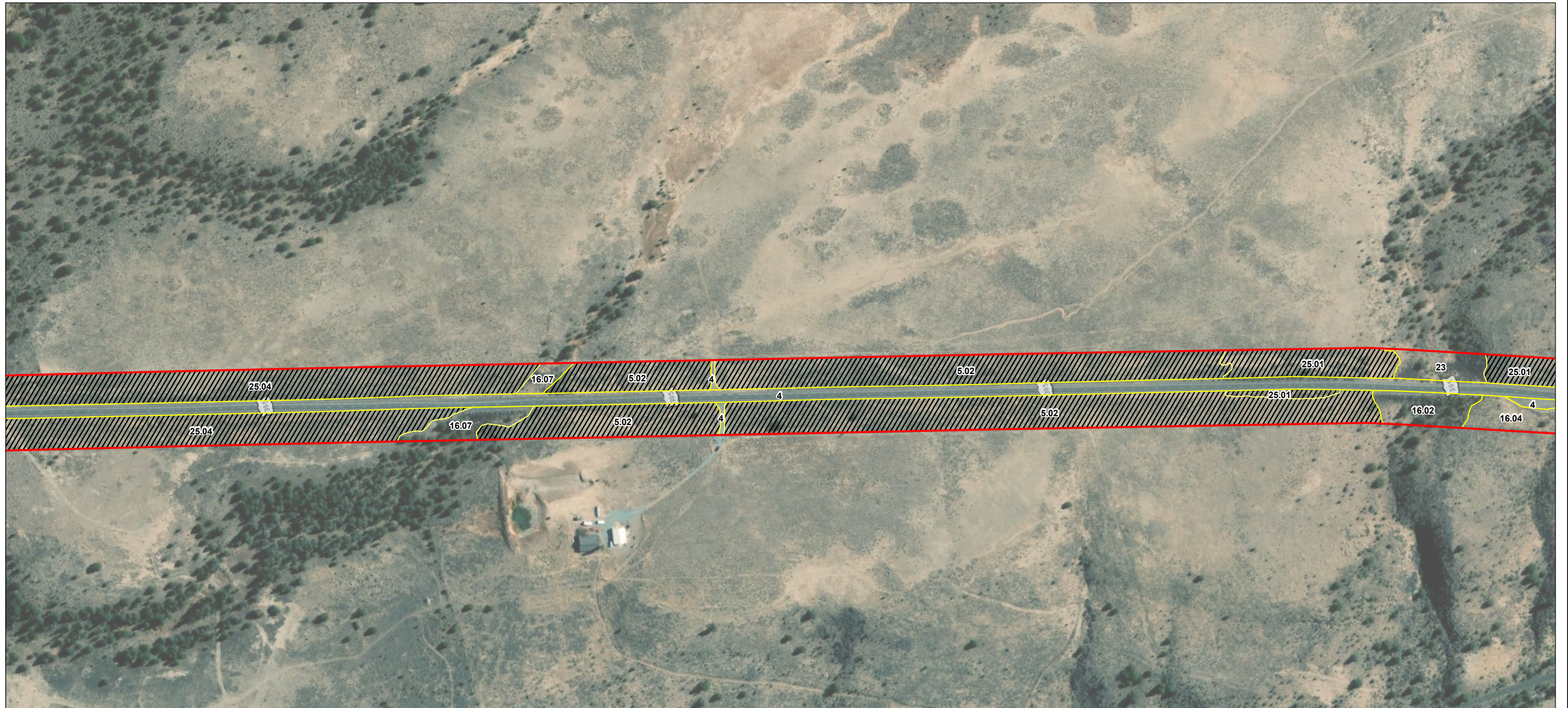
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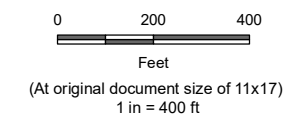


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 Not Sensitive

(See attached table for Map ID and corresponding vegetation alliances and associations)



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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

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Zayo Group LLC  
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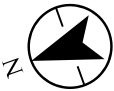
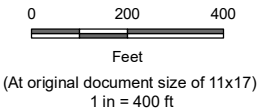
**Notes**  
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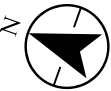
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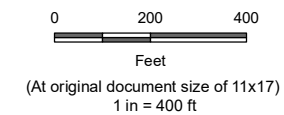


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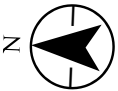
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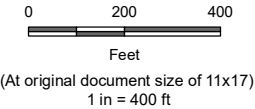
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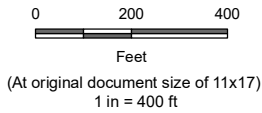
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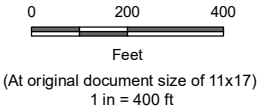
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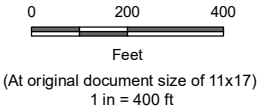
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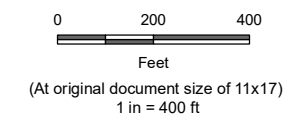


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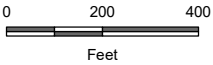
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1 in = 400 ft



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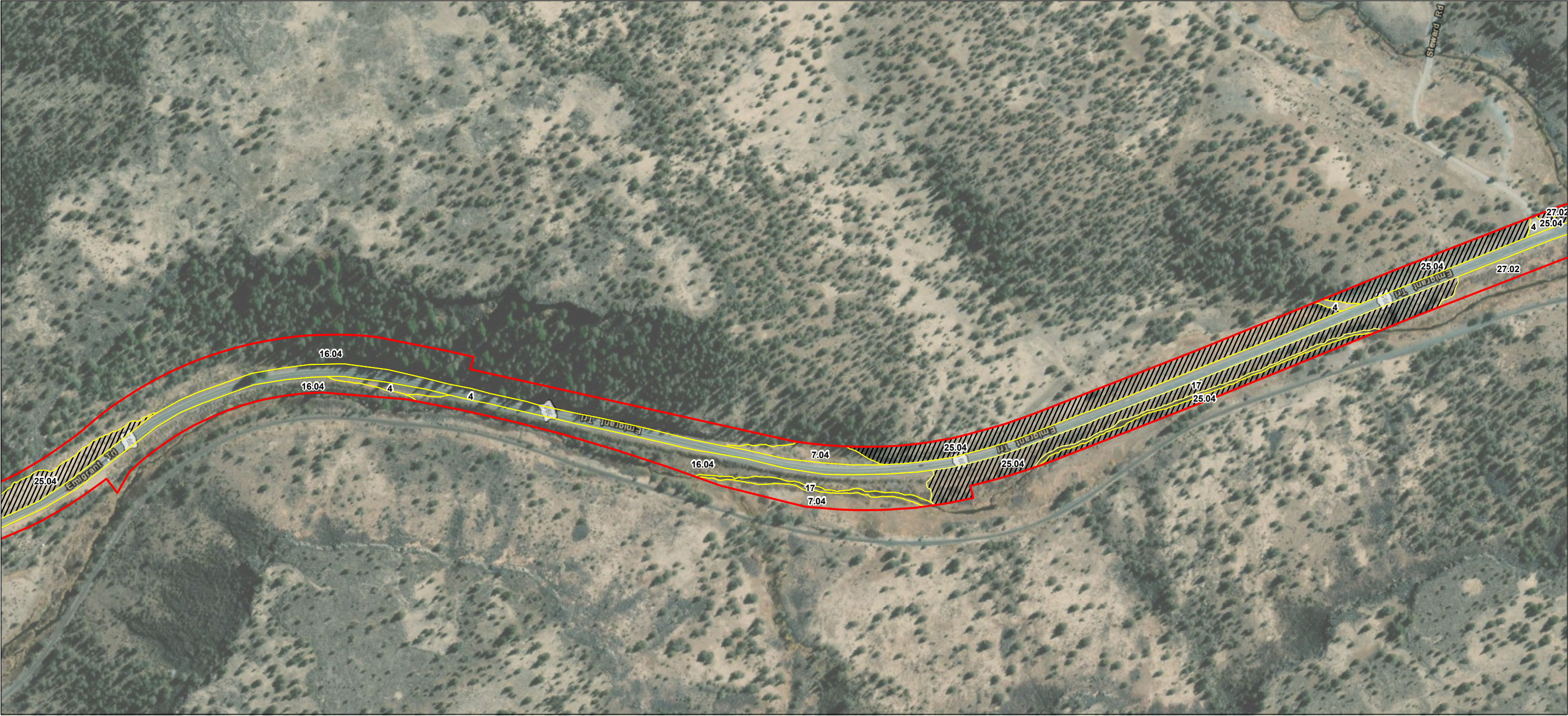
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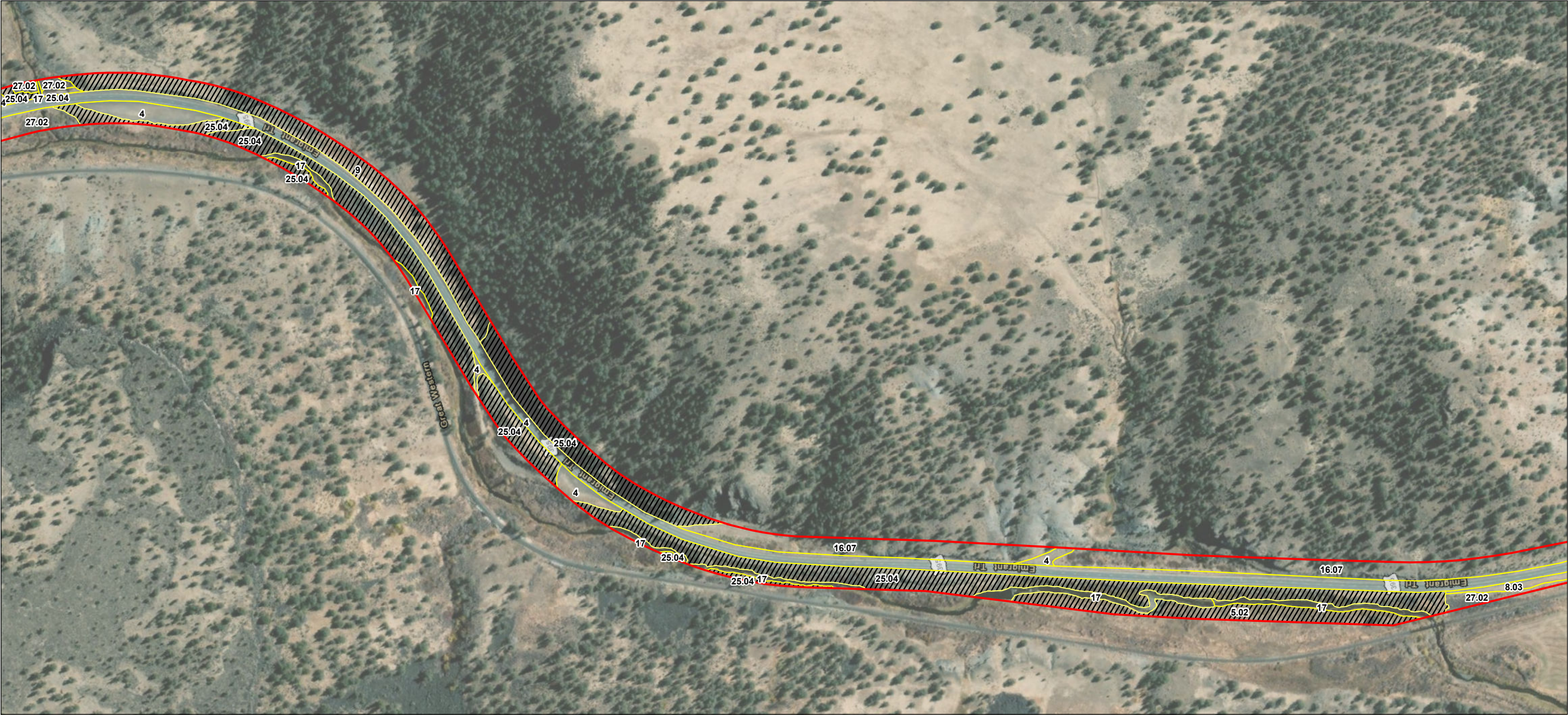
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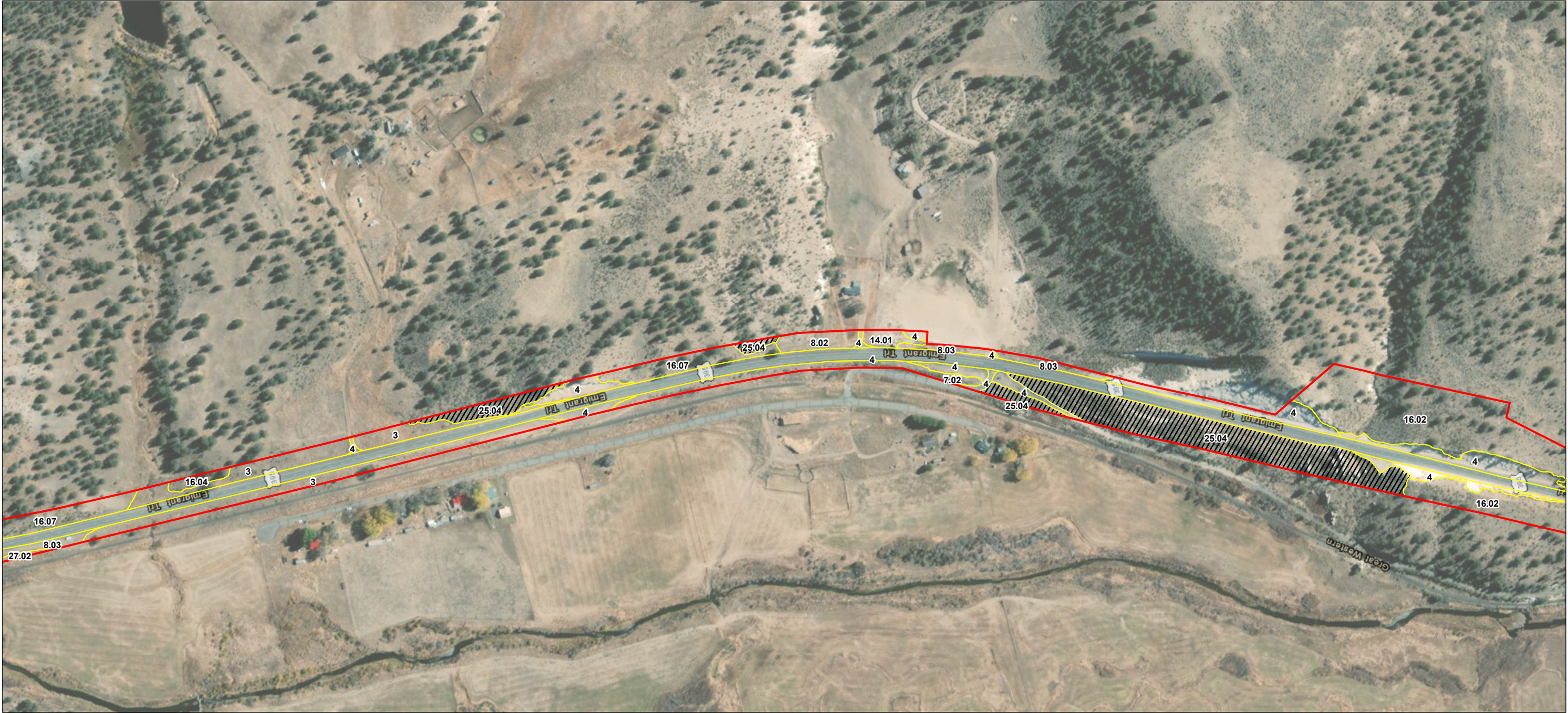
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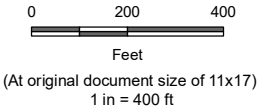
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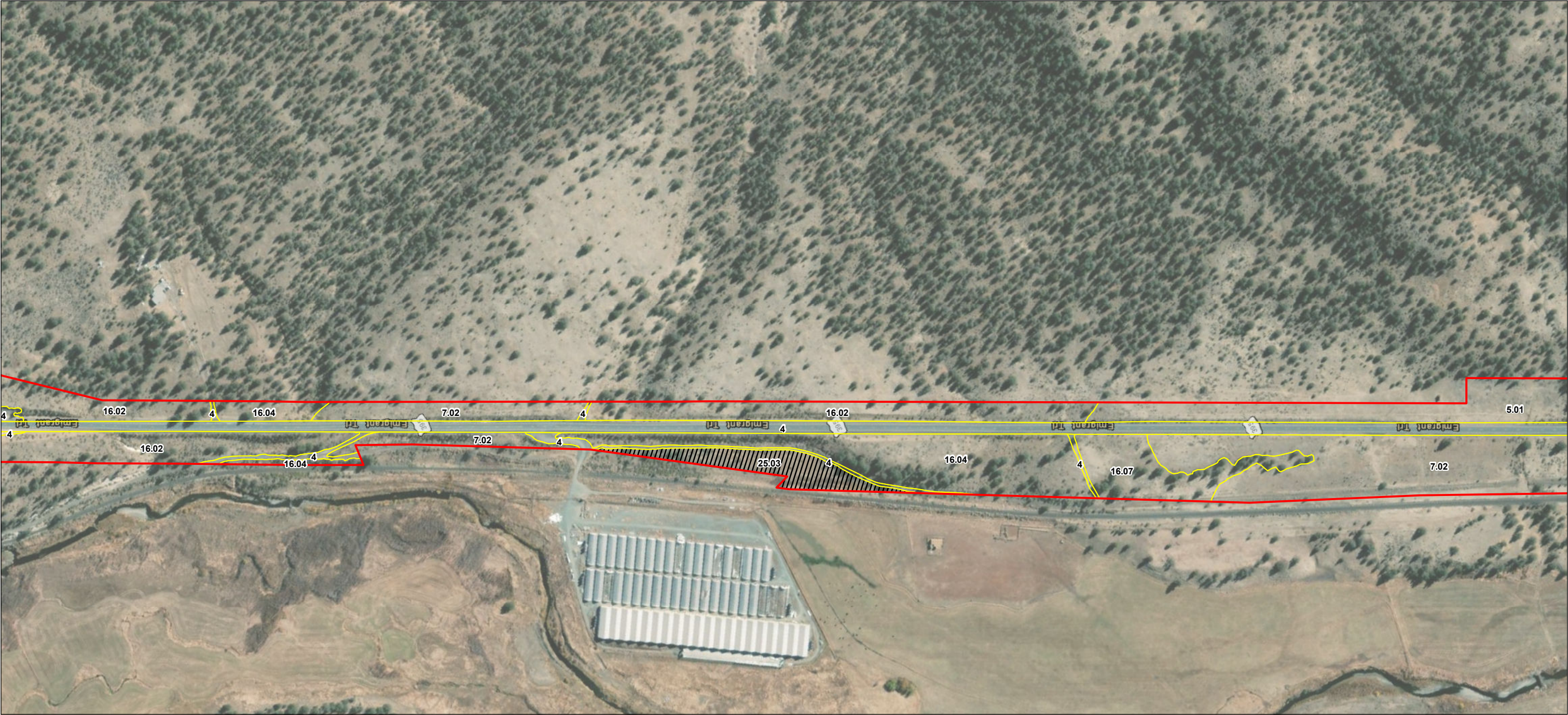
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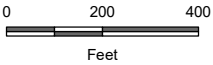
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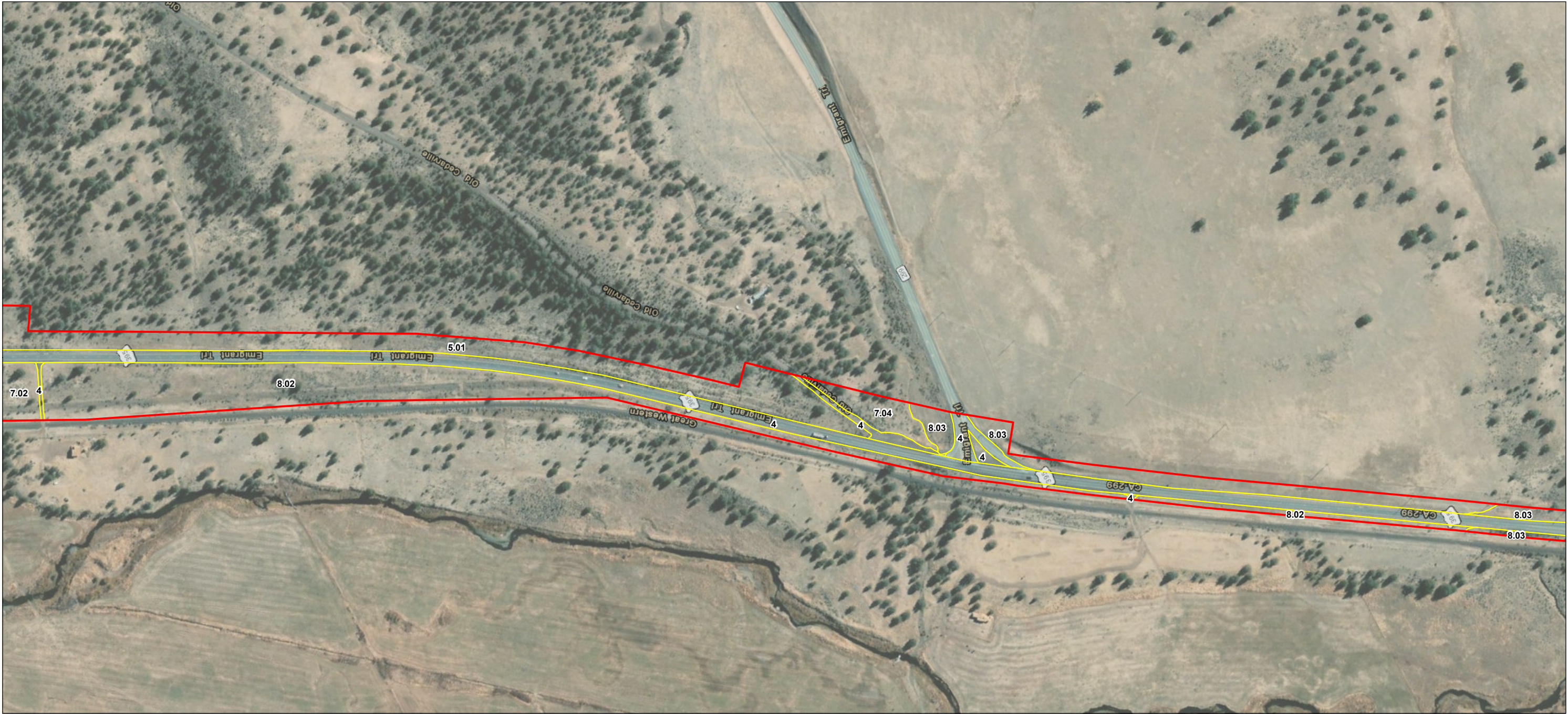
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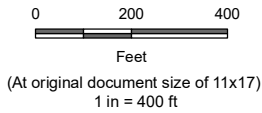
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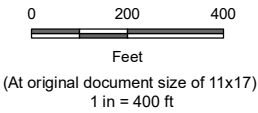
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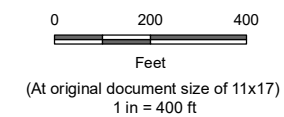
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Figure No.

3

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*Title*

## Natural Communities



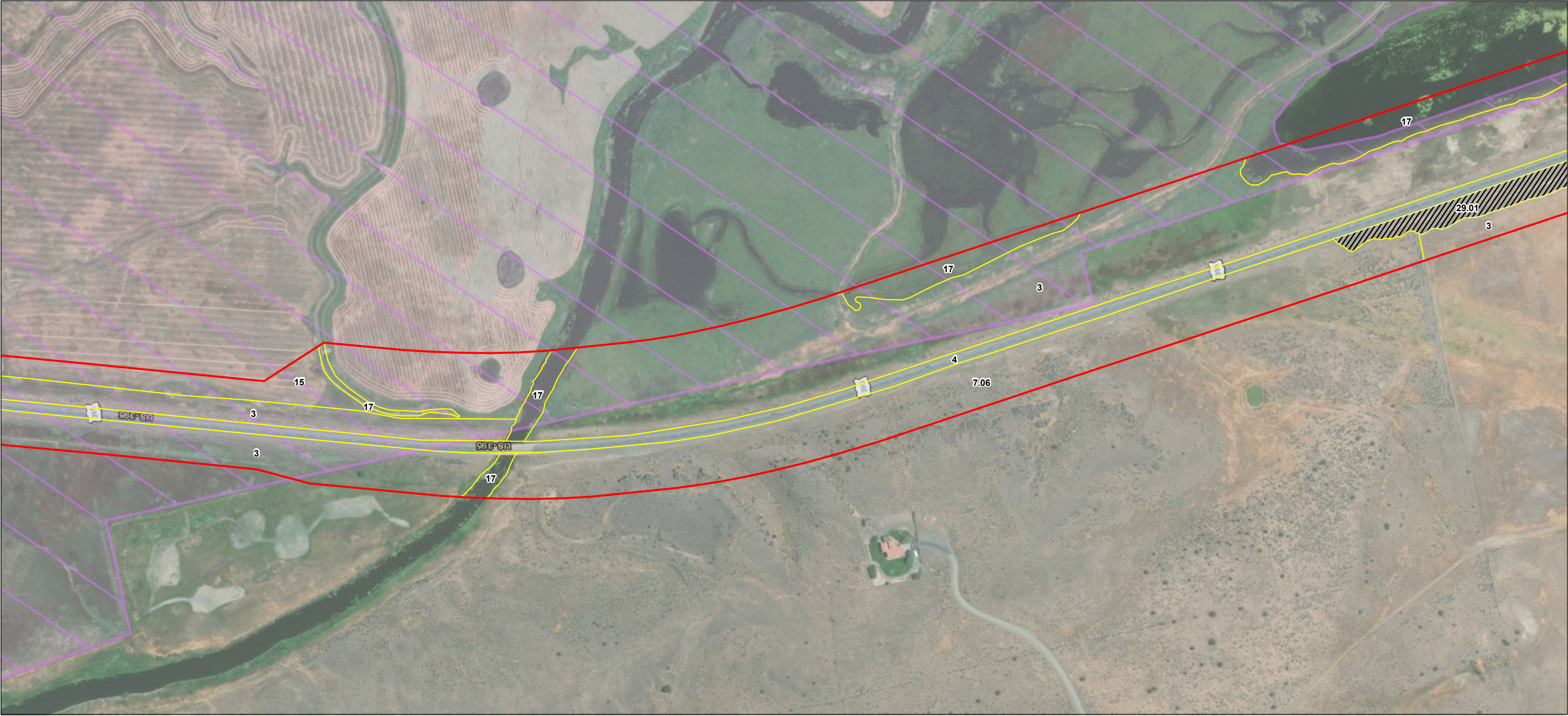








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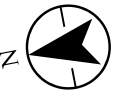
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- BLM
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**Natural Community Boundary**

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(See attached table for Map ID and corresponding vegetation alliances and associations)



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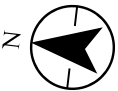
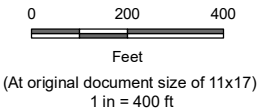
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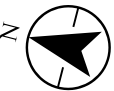
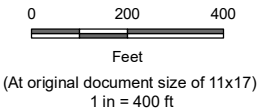
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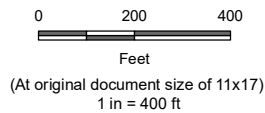
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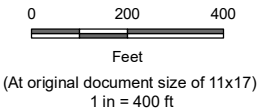
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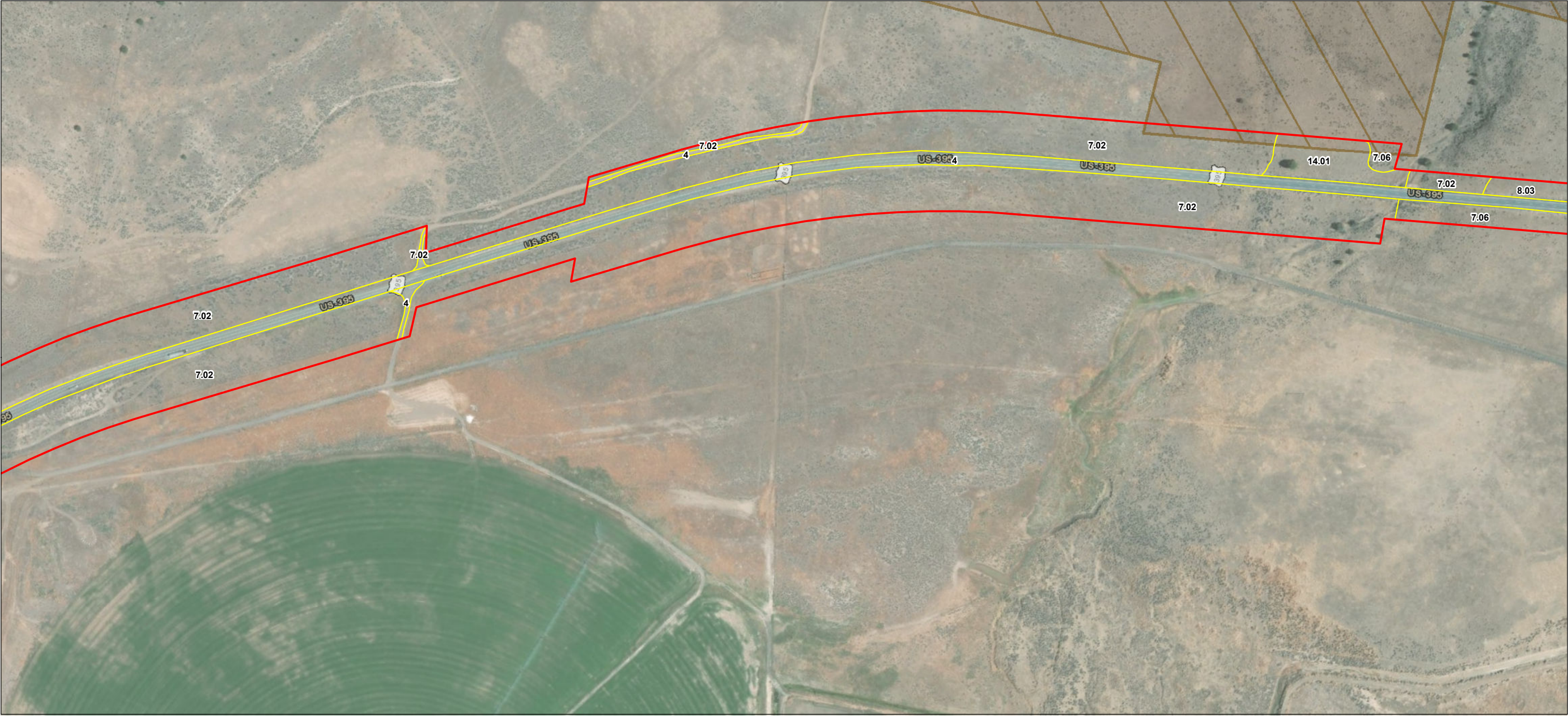
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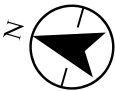
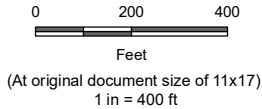
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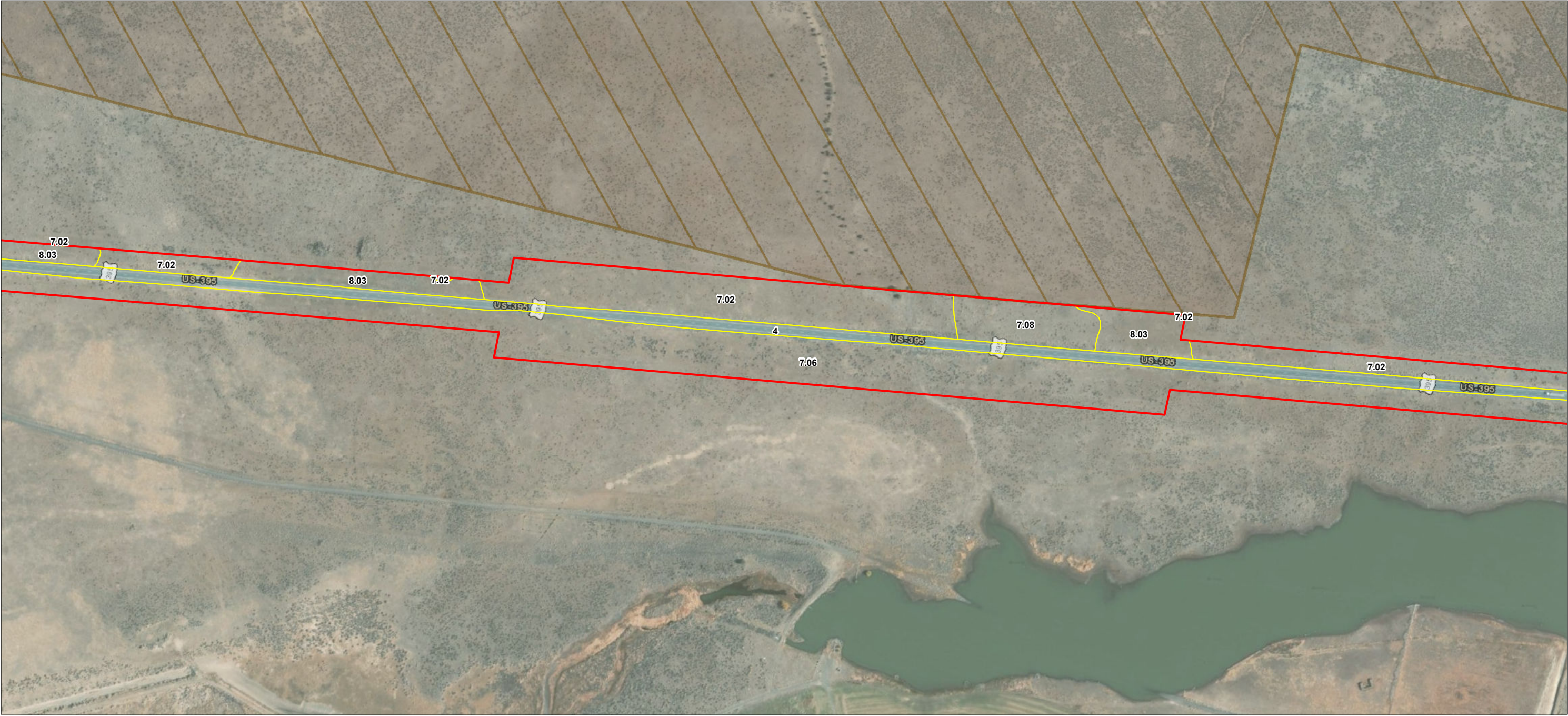
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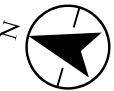
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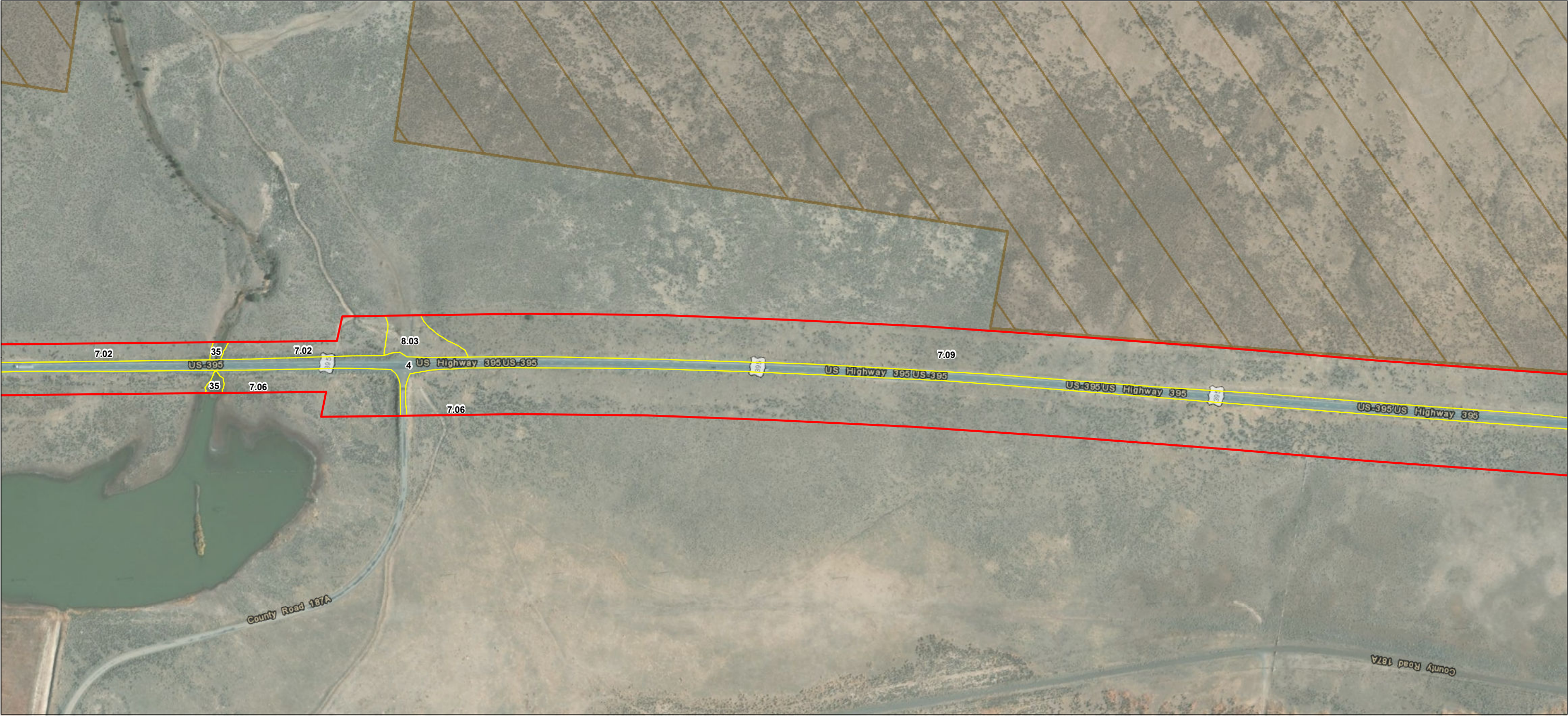
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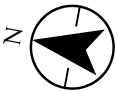
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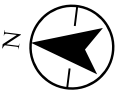
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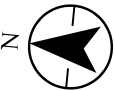
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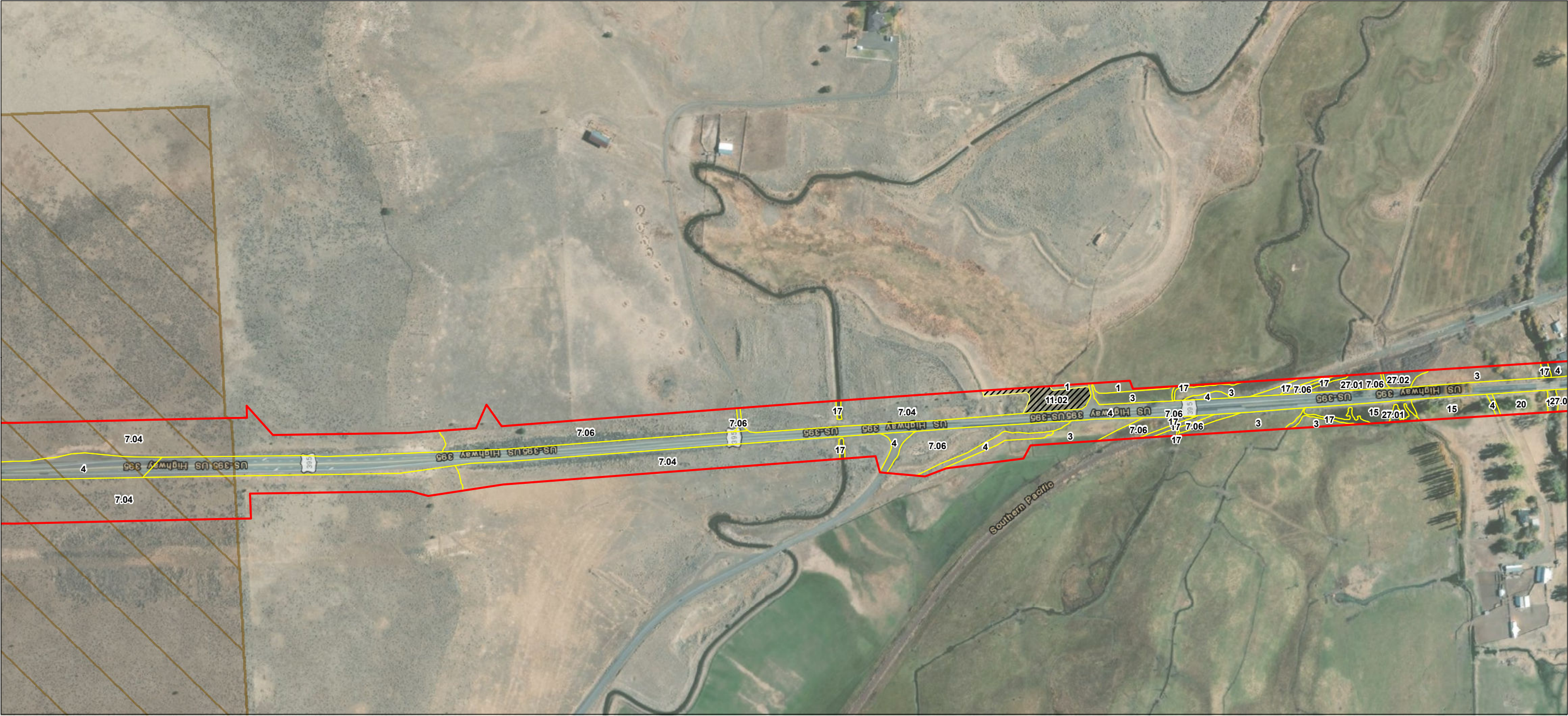
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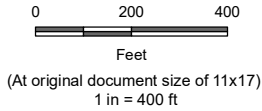
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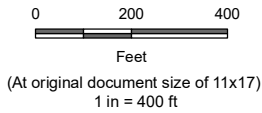
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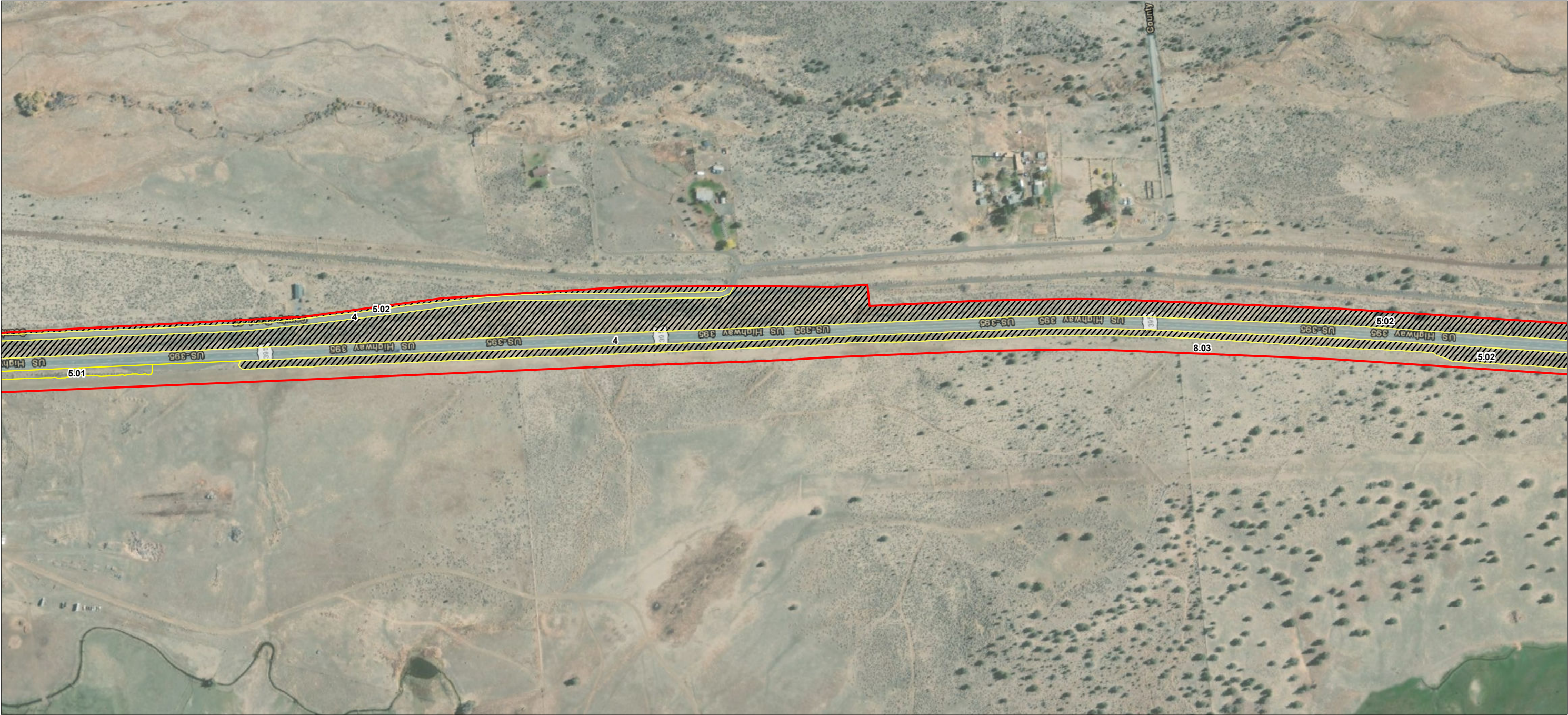
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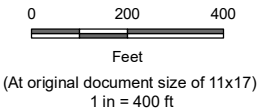
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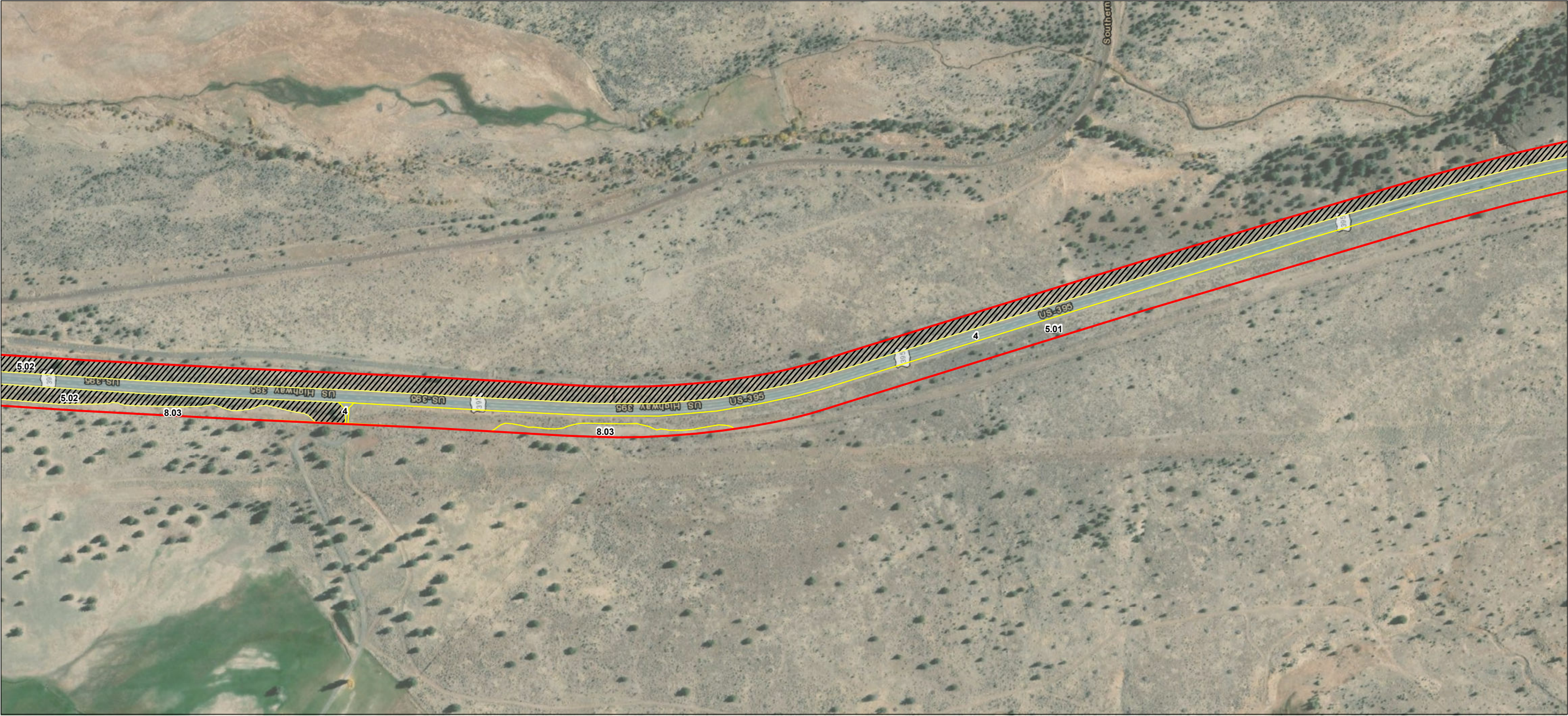
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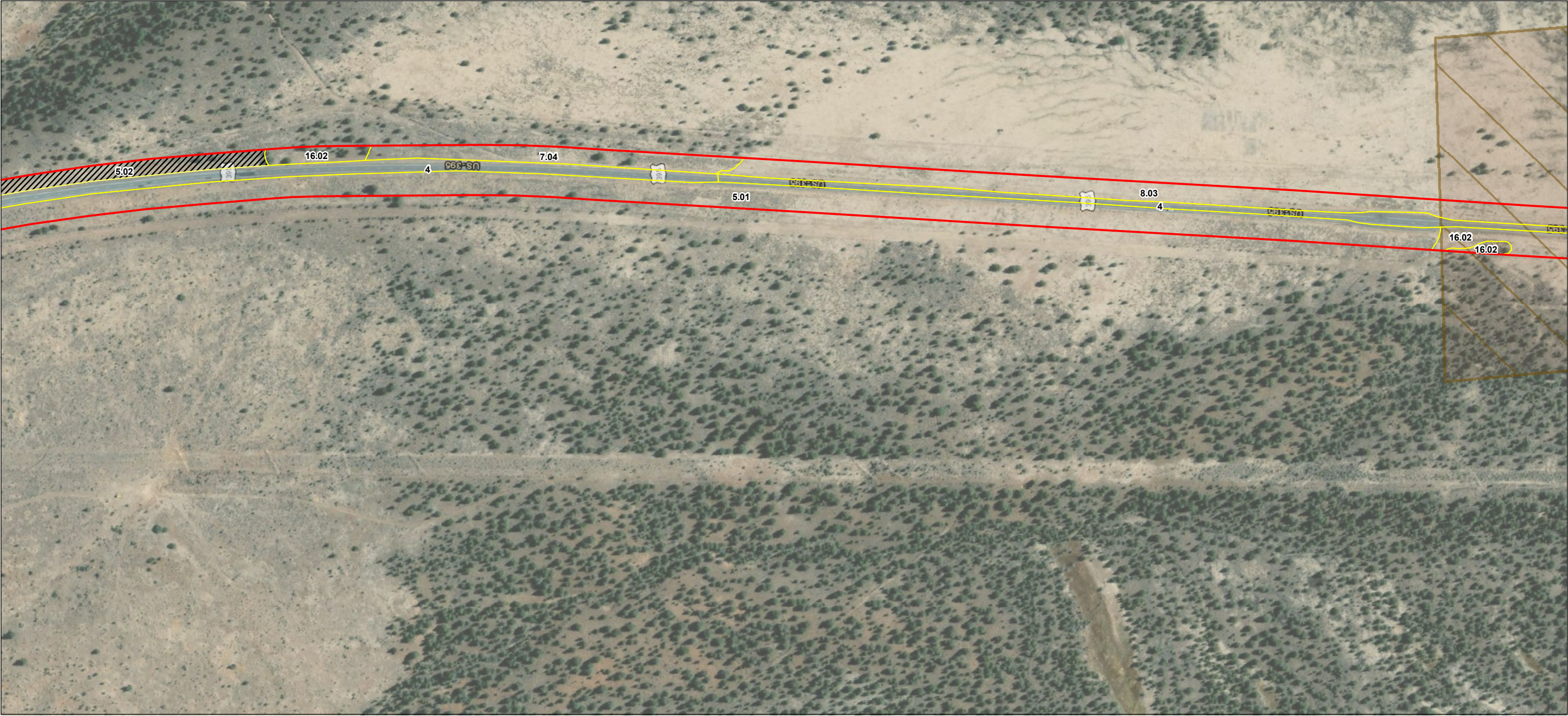
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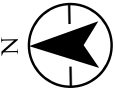
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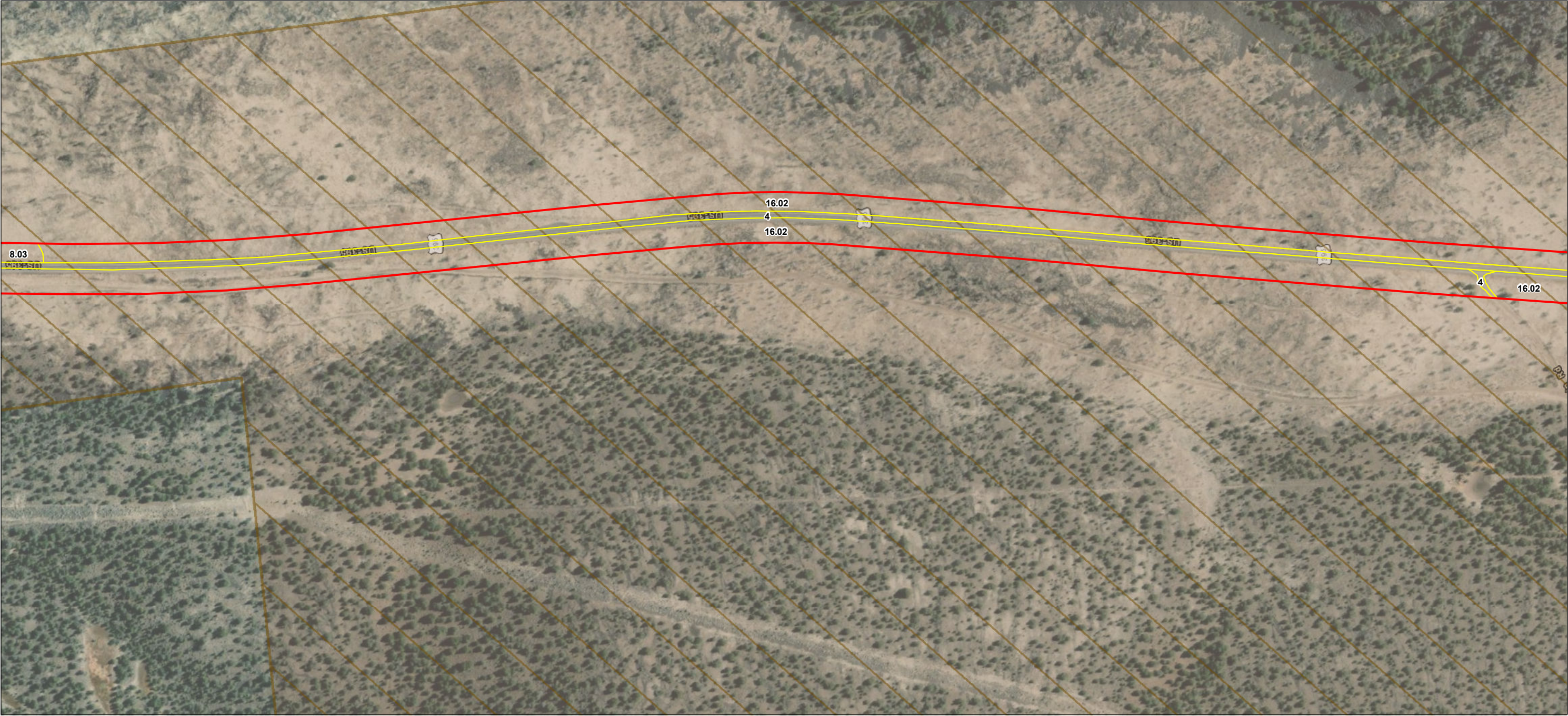
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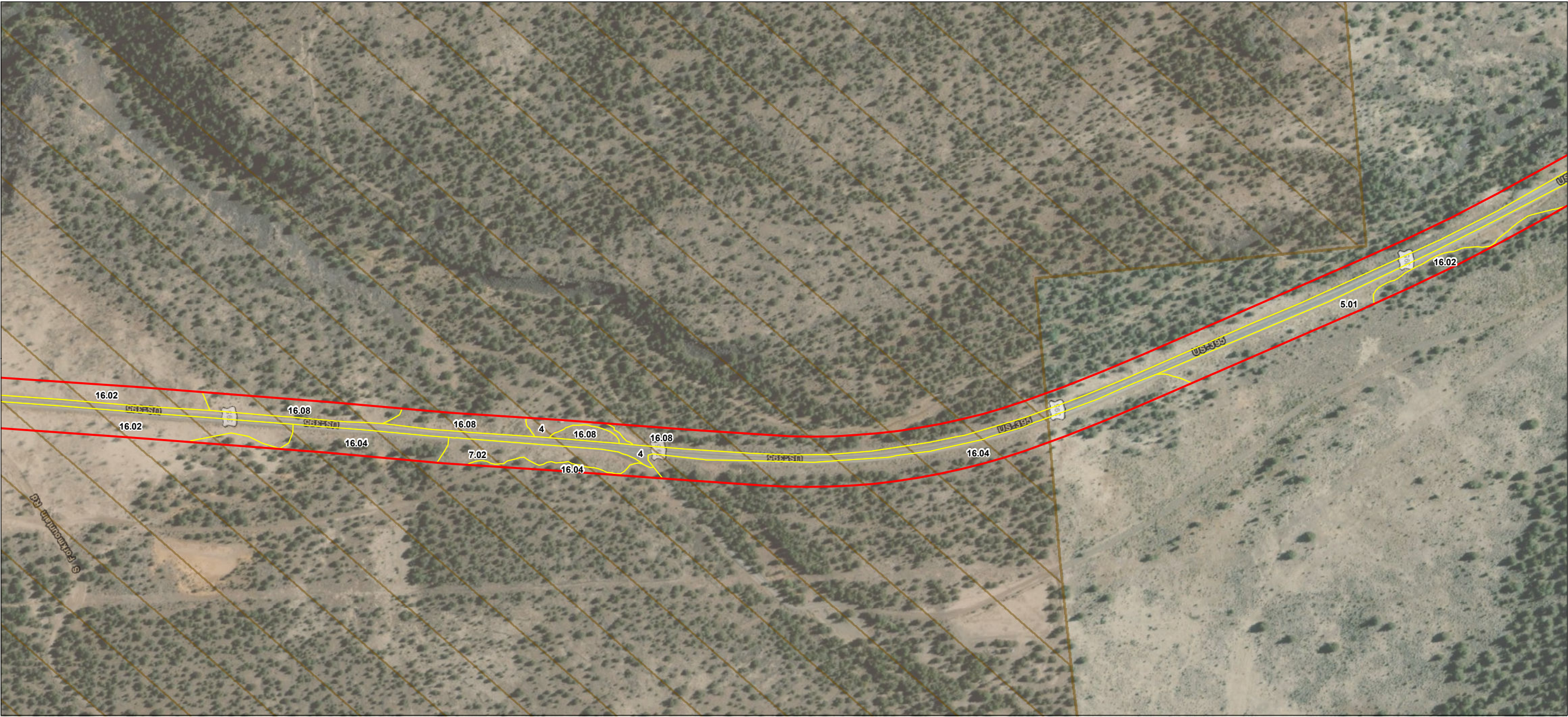
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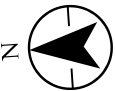
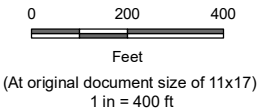
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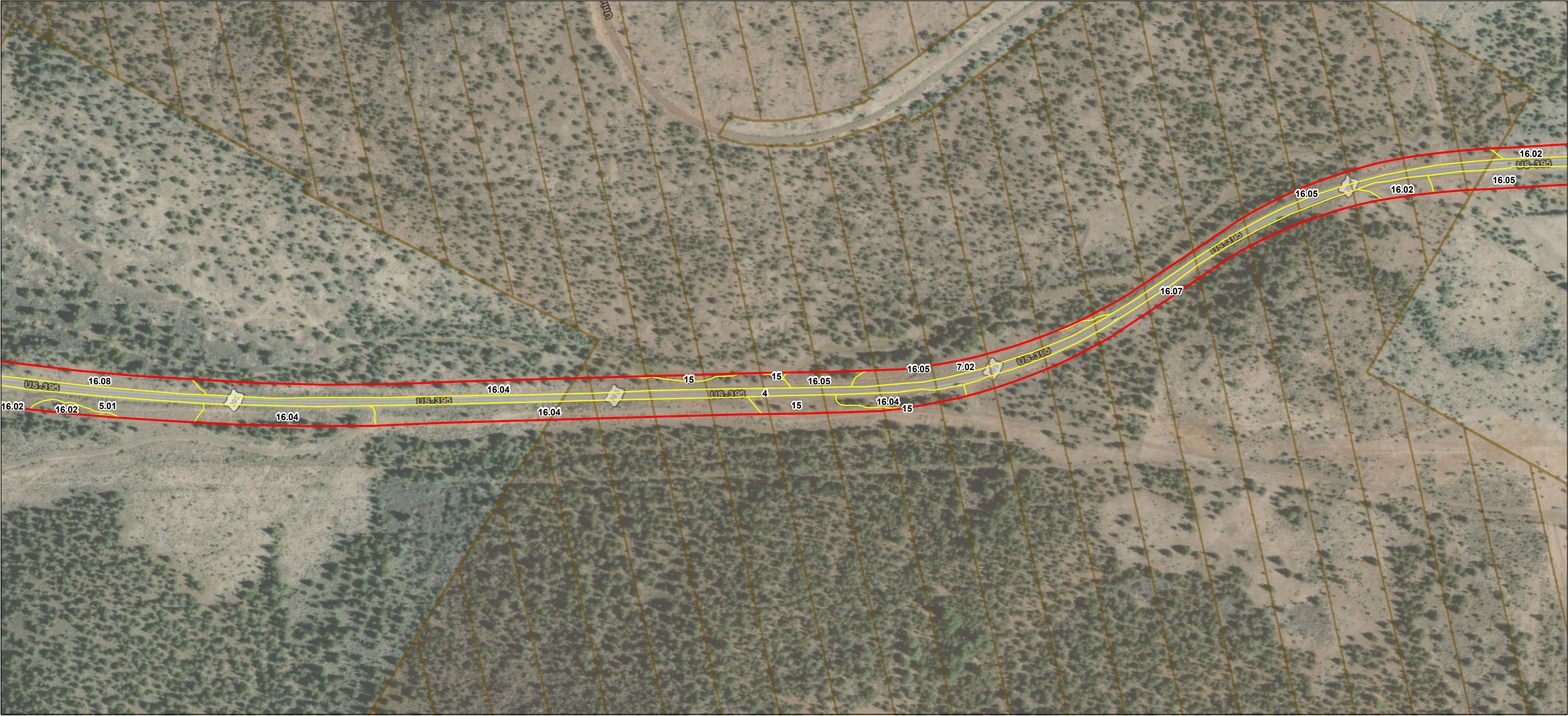
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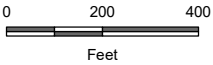
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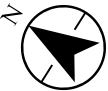
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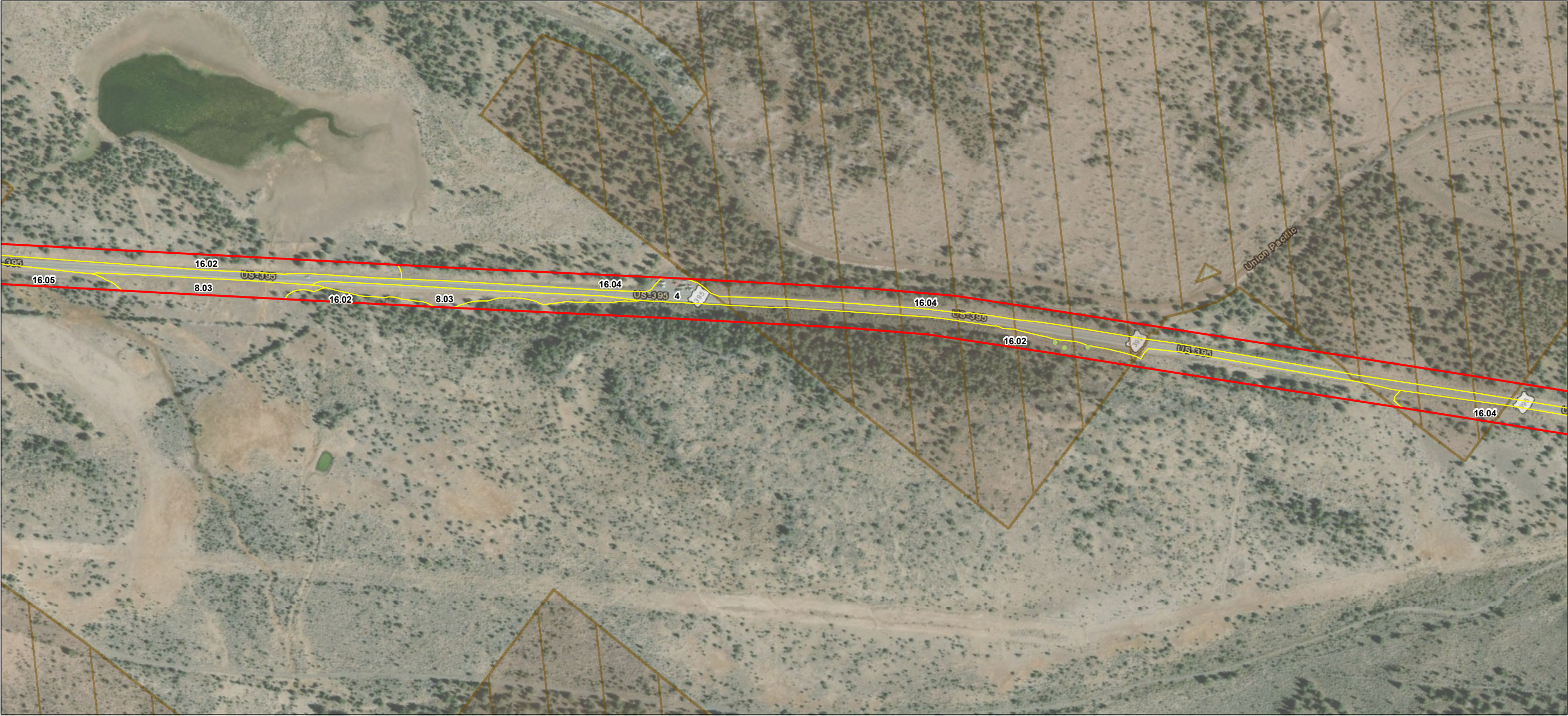
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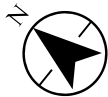
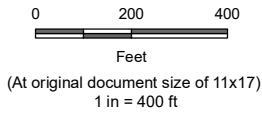
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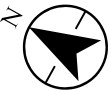
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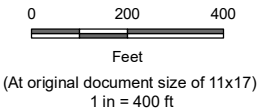
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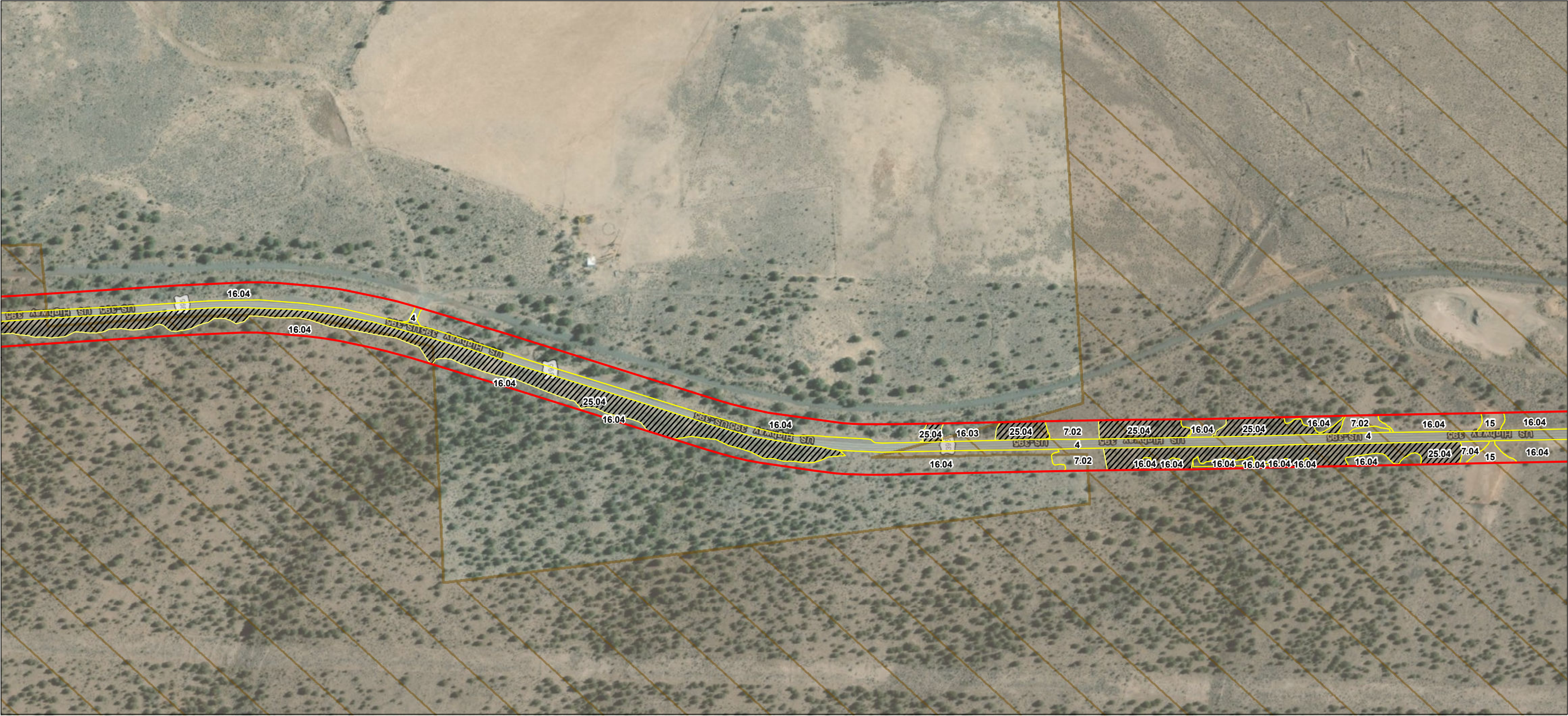
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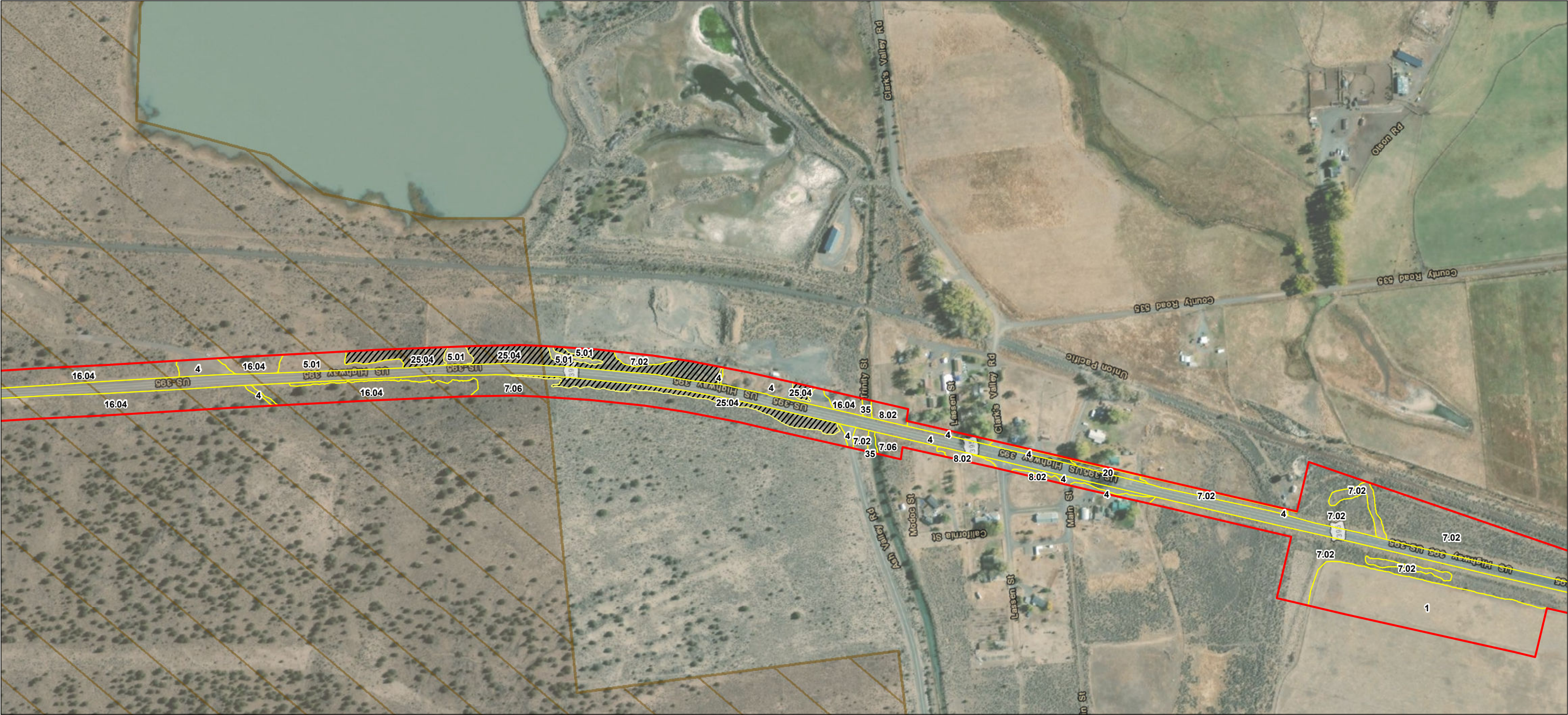
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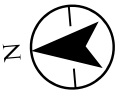
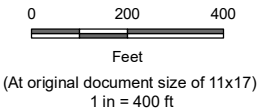
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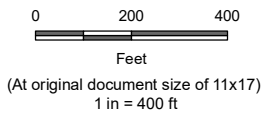
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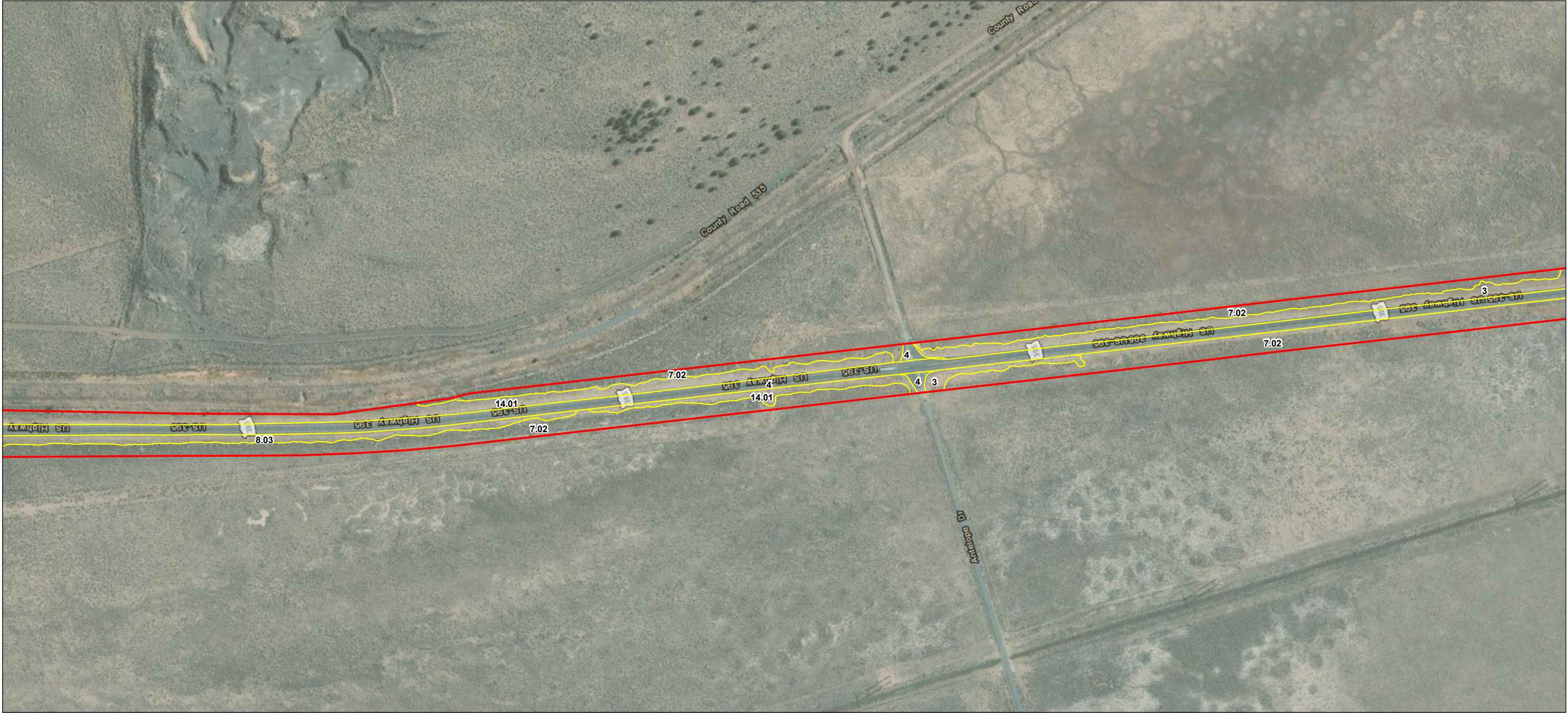
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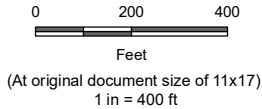
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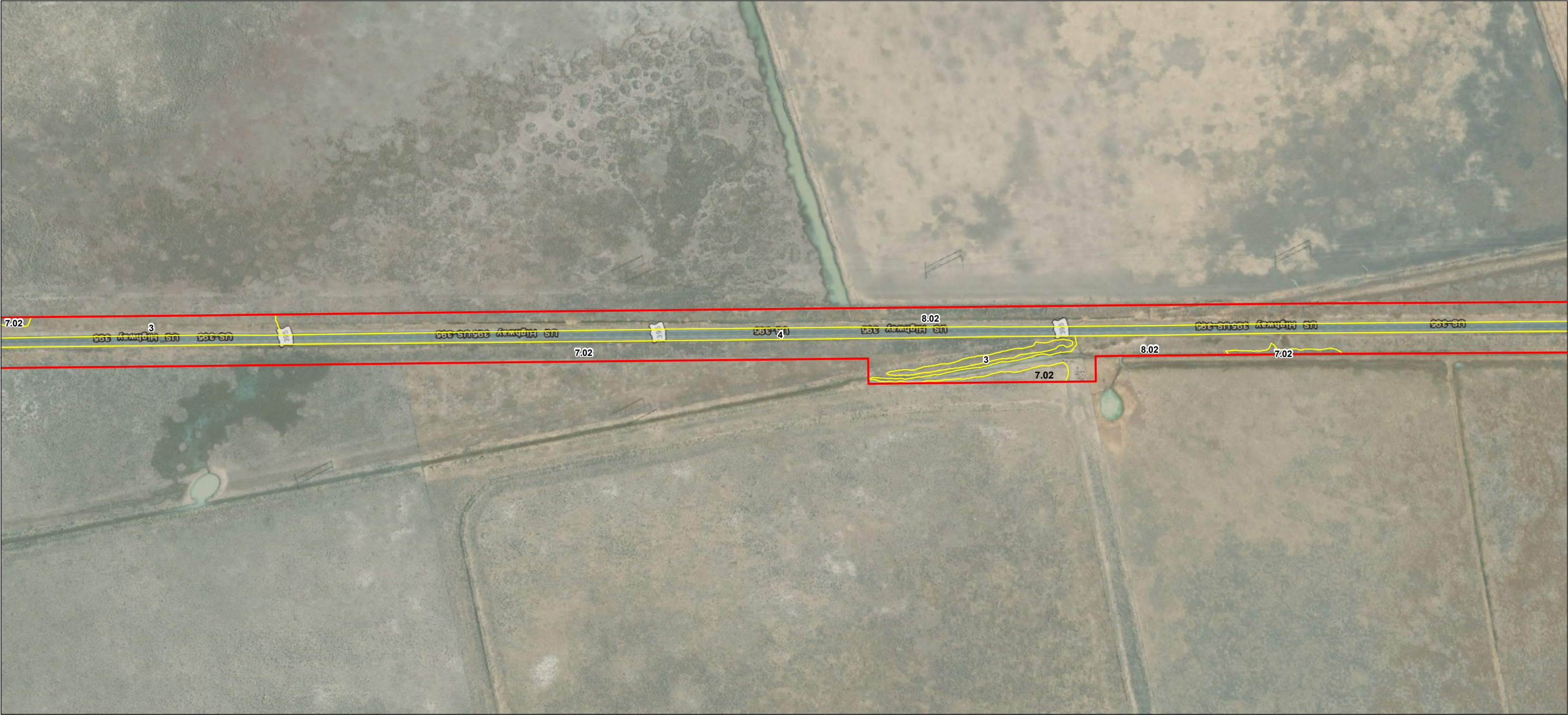
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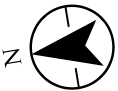
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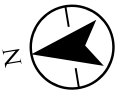
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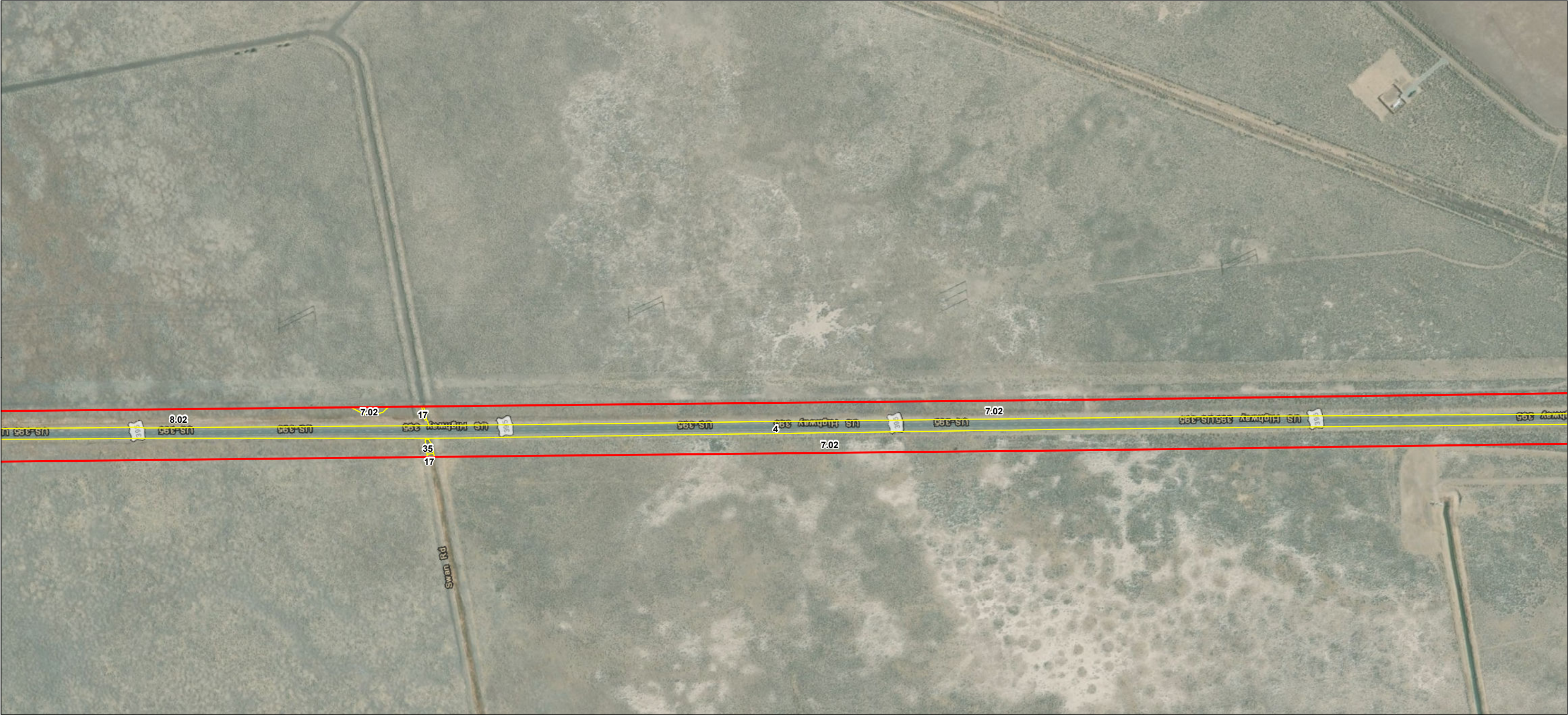
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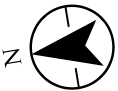
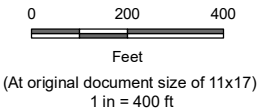
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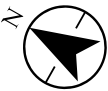
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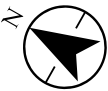
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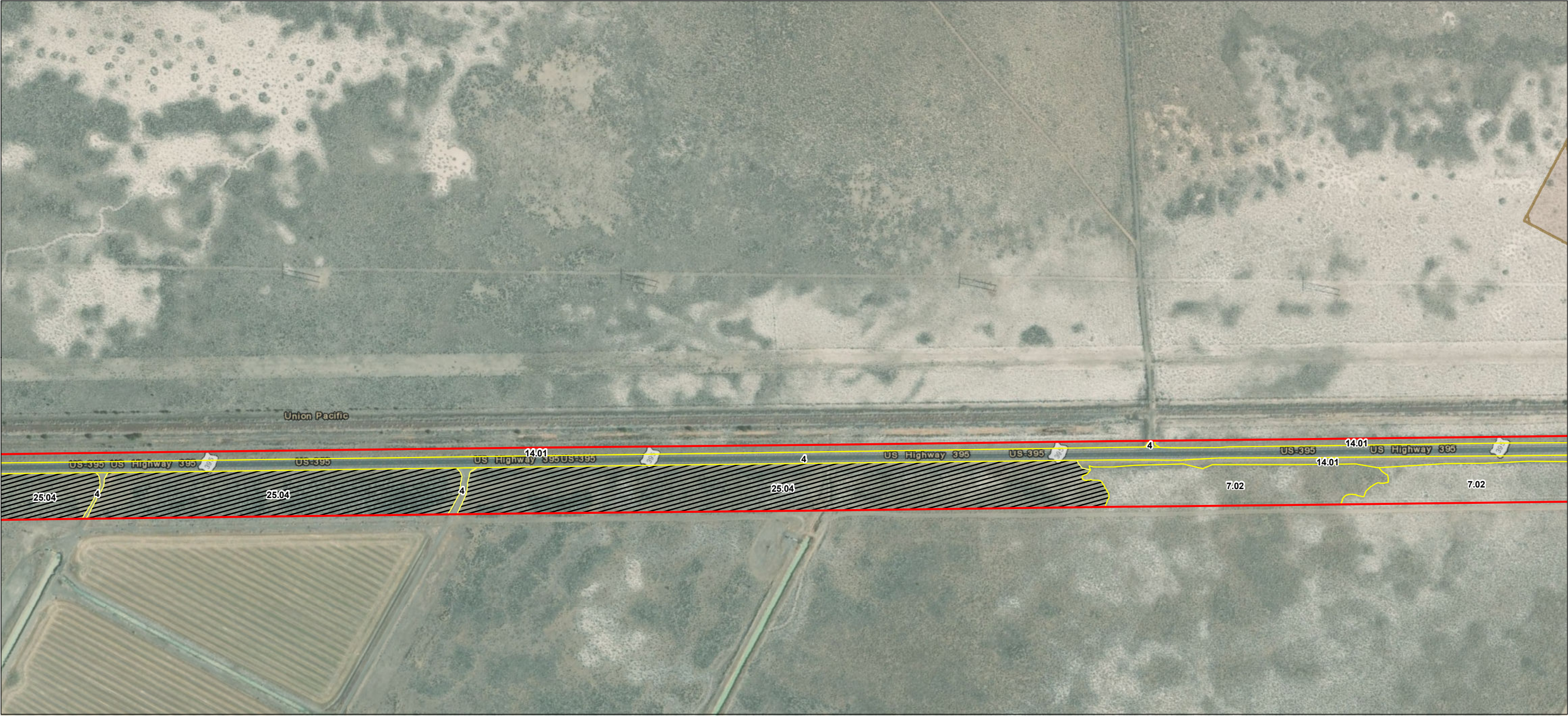
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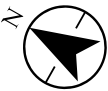
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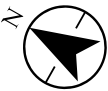
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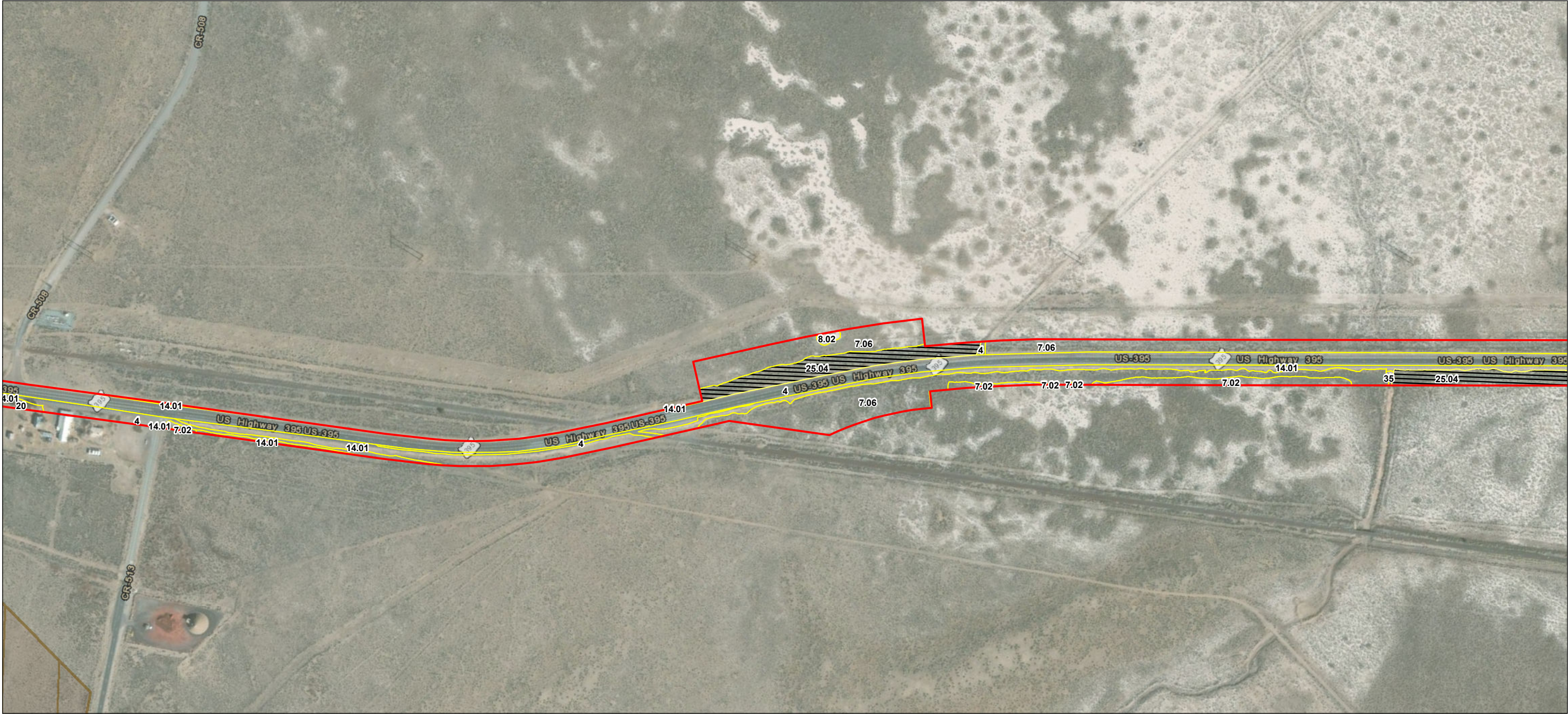
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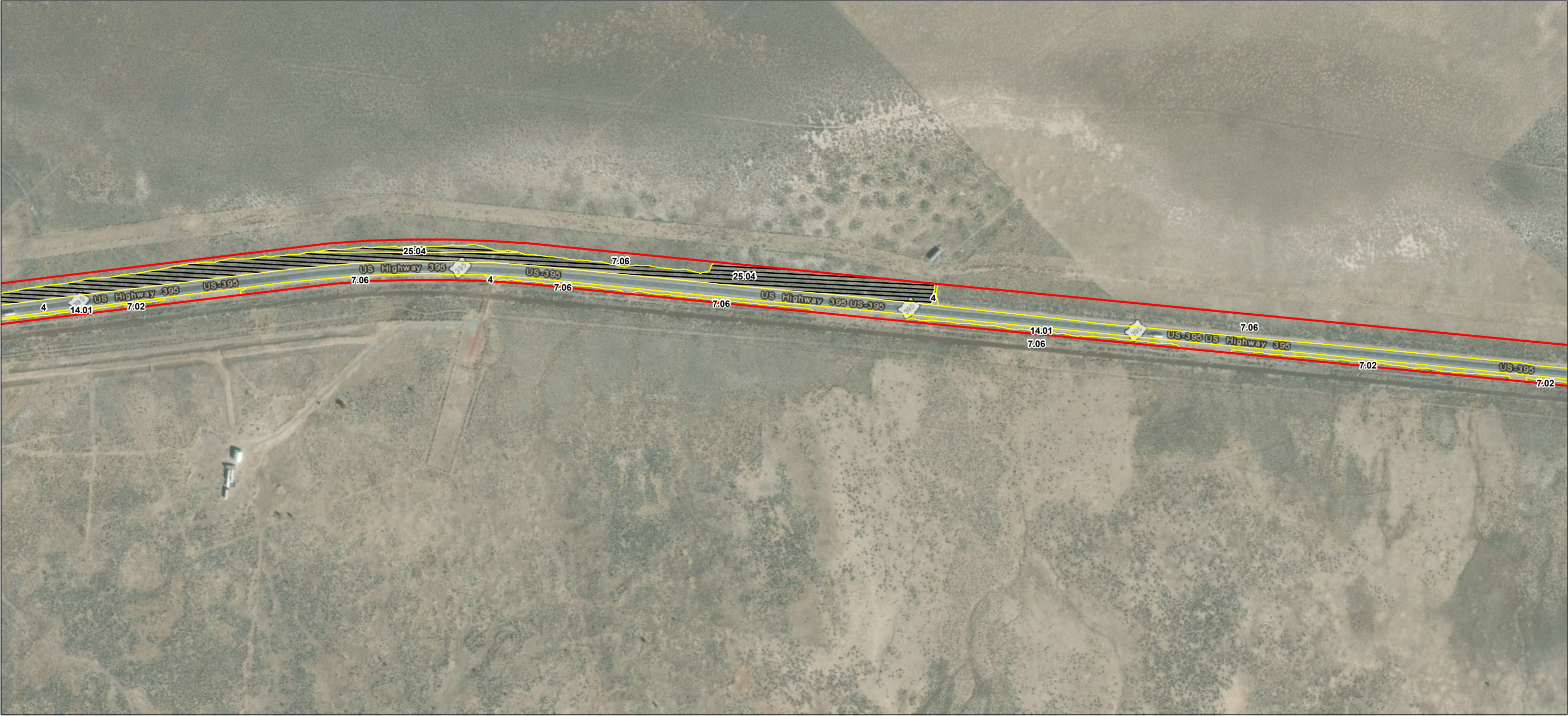
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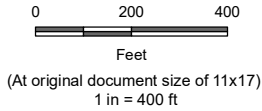
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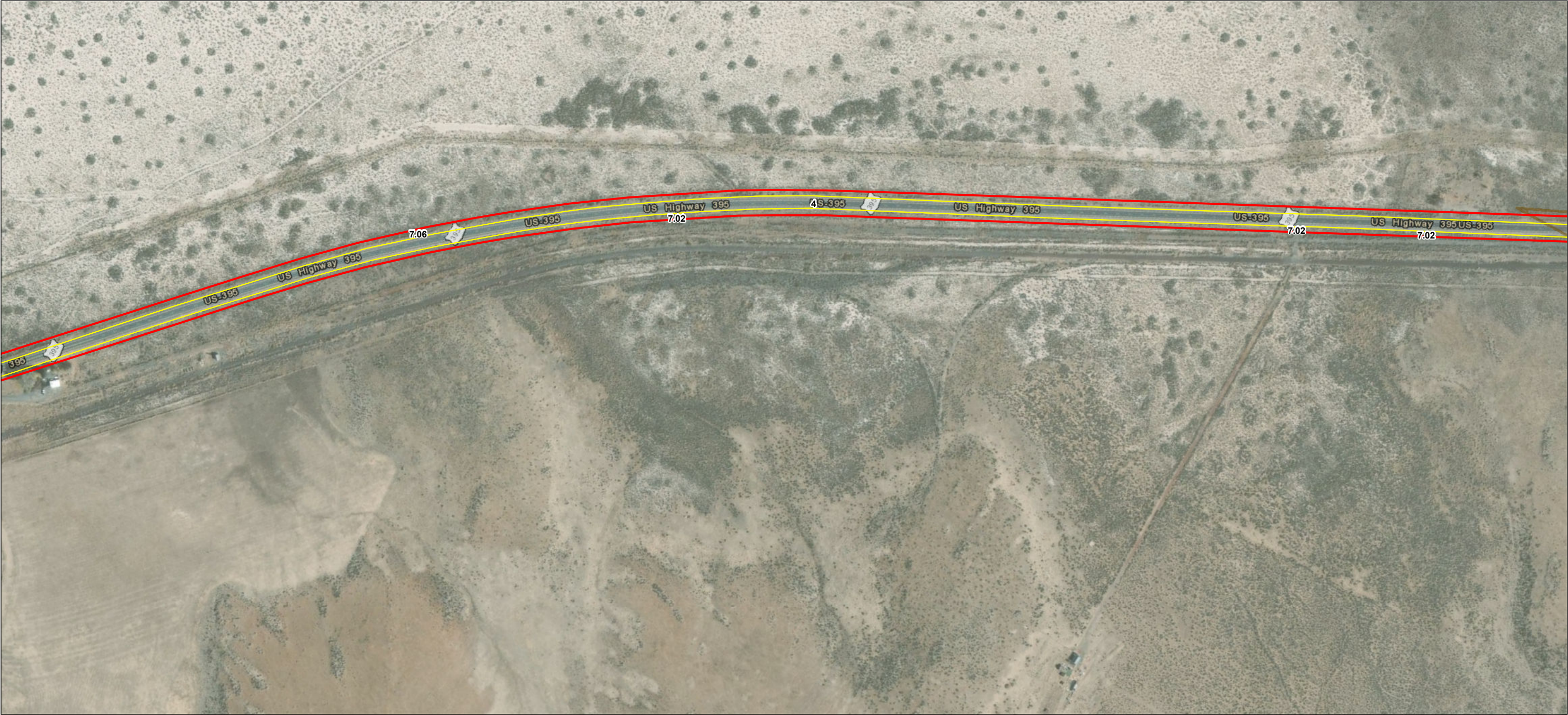
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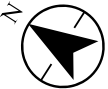
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Natural Communities



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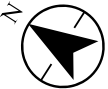
**Notes**  
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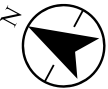
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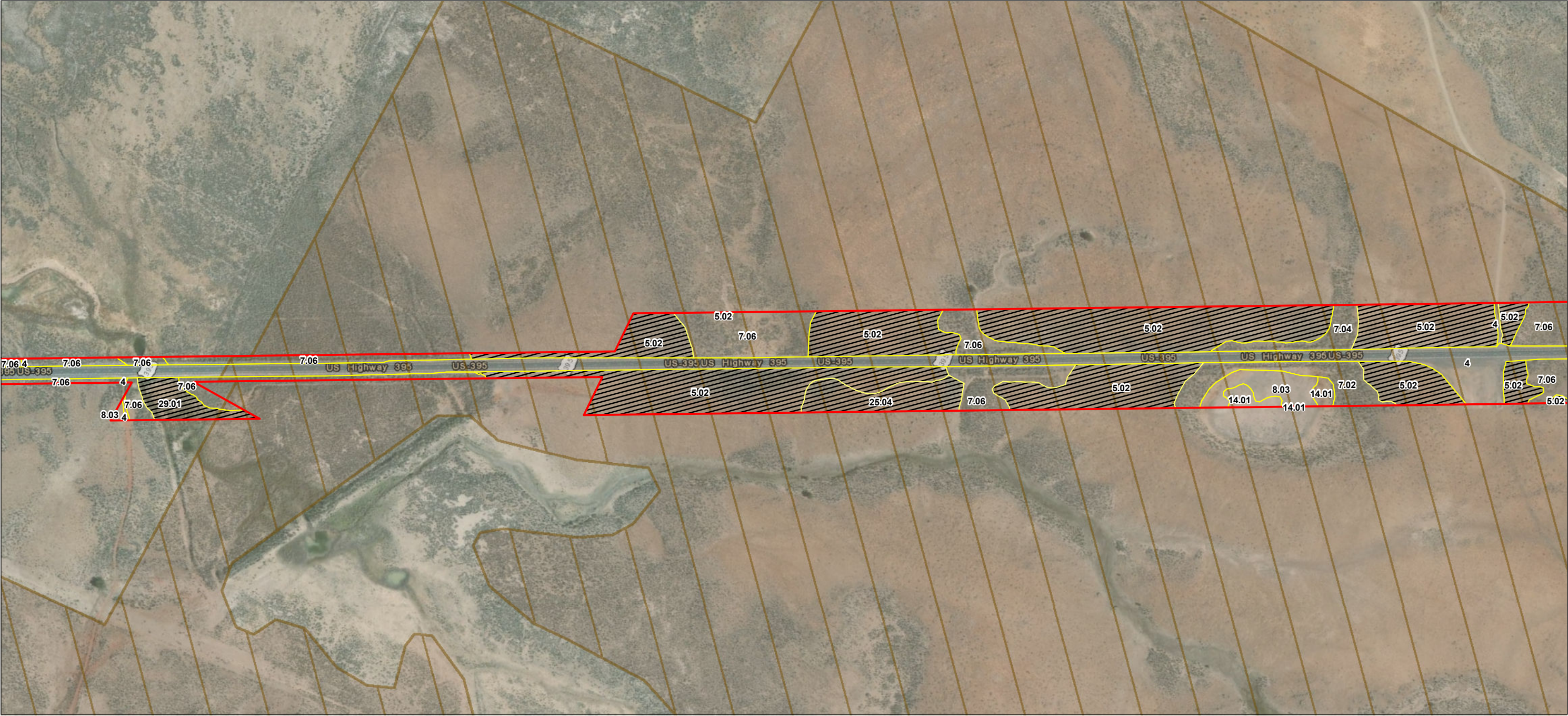
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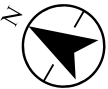
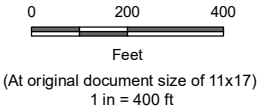
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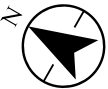
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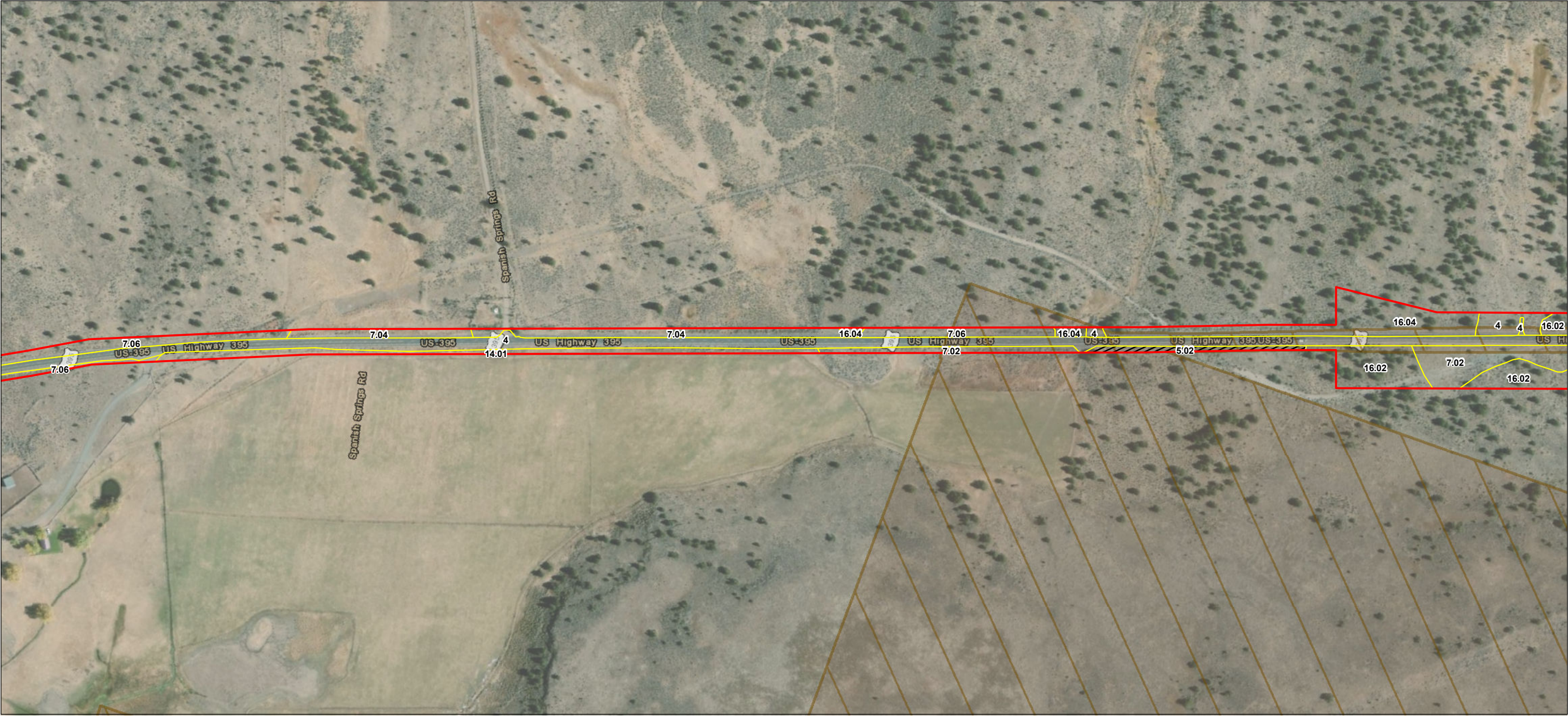
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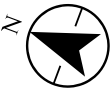
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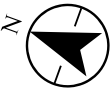
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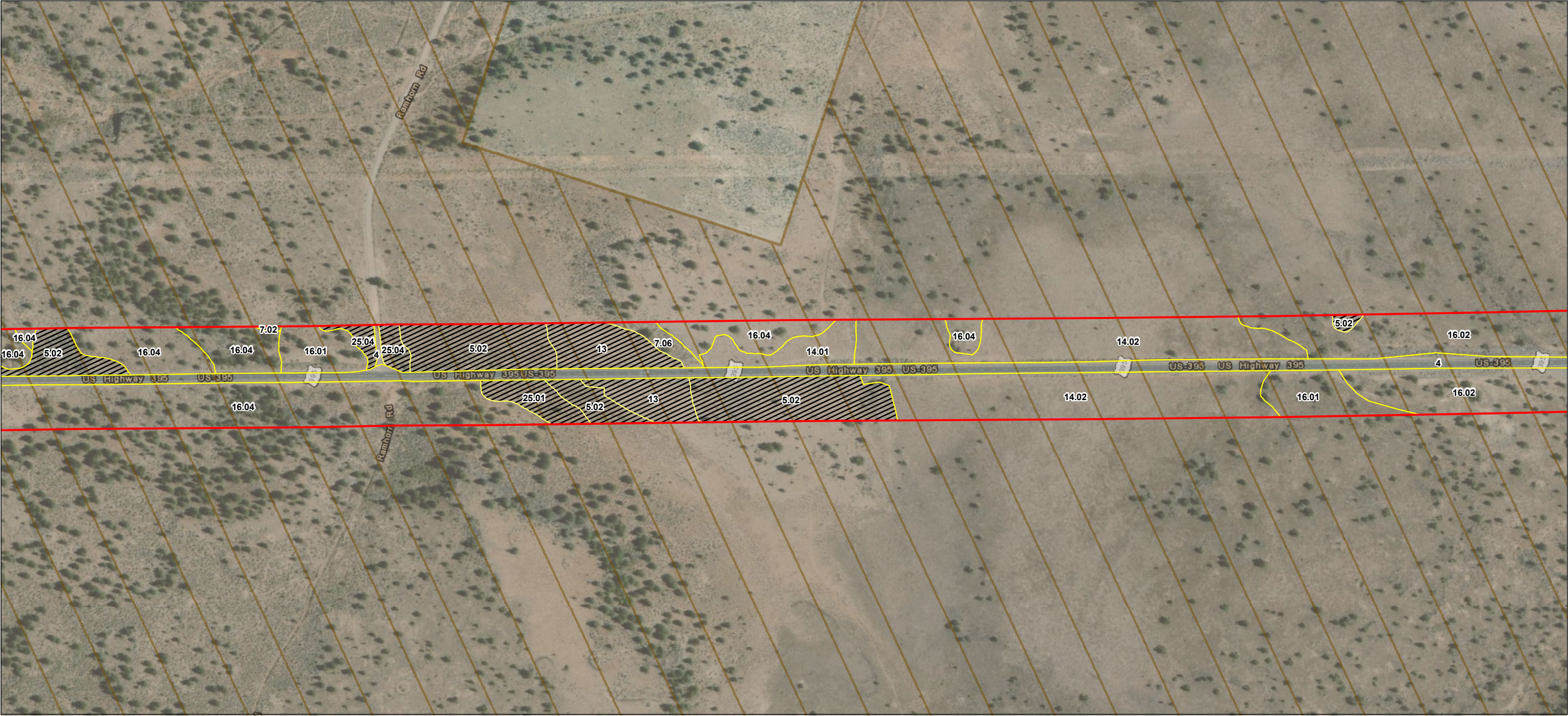
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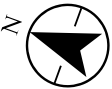
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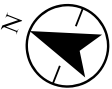
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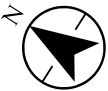
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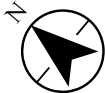
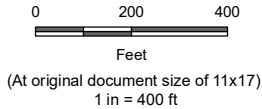
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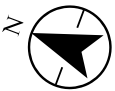
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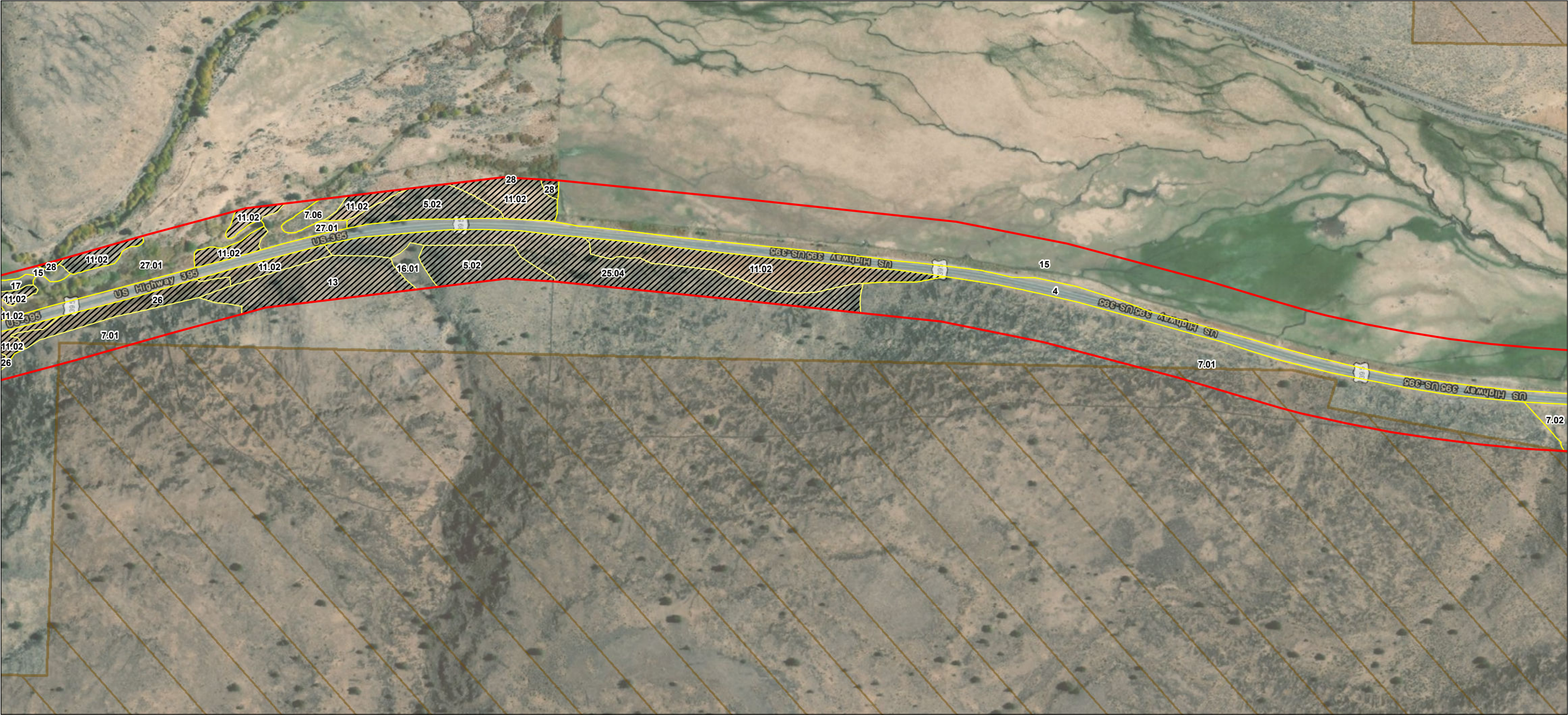
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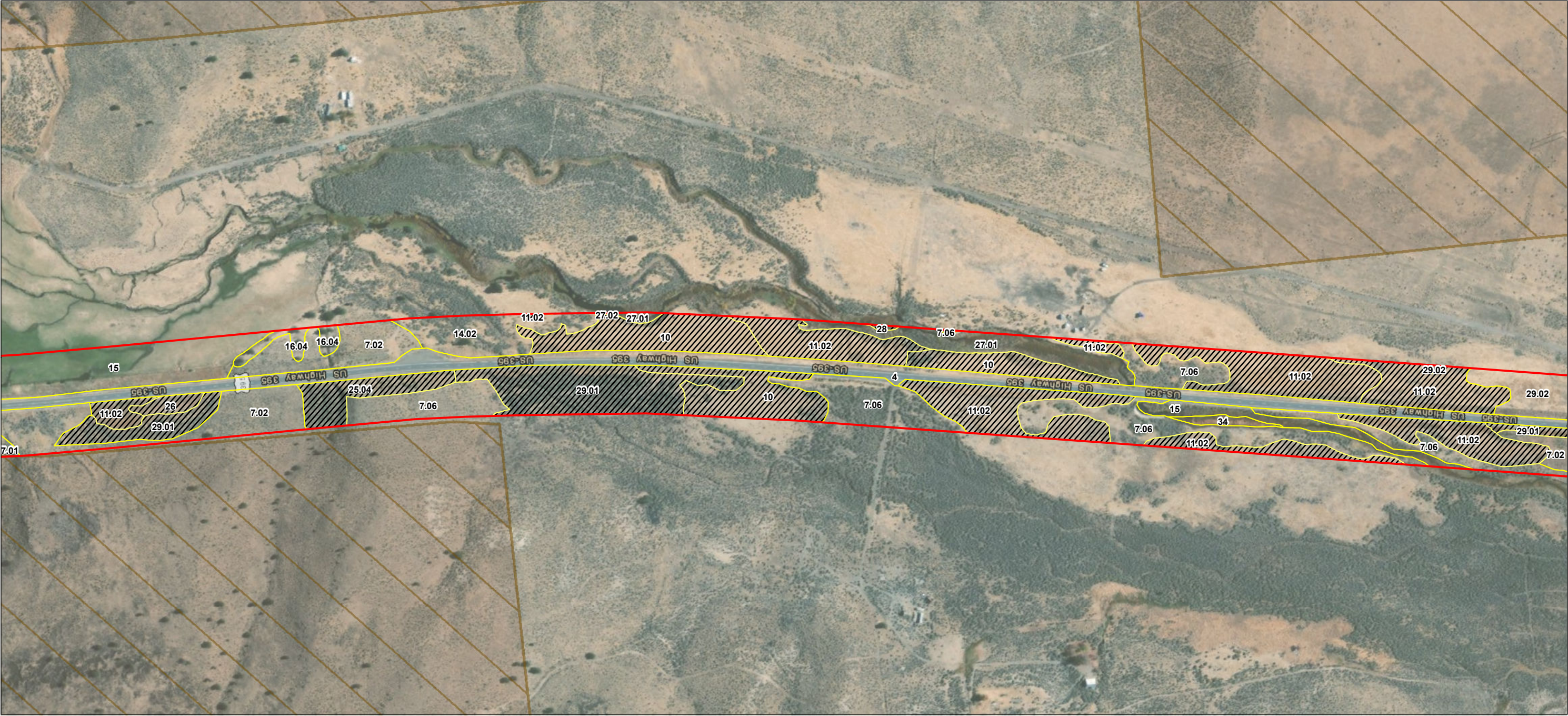
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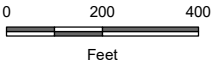
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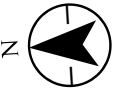
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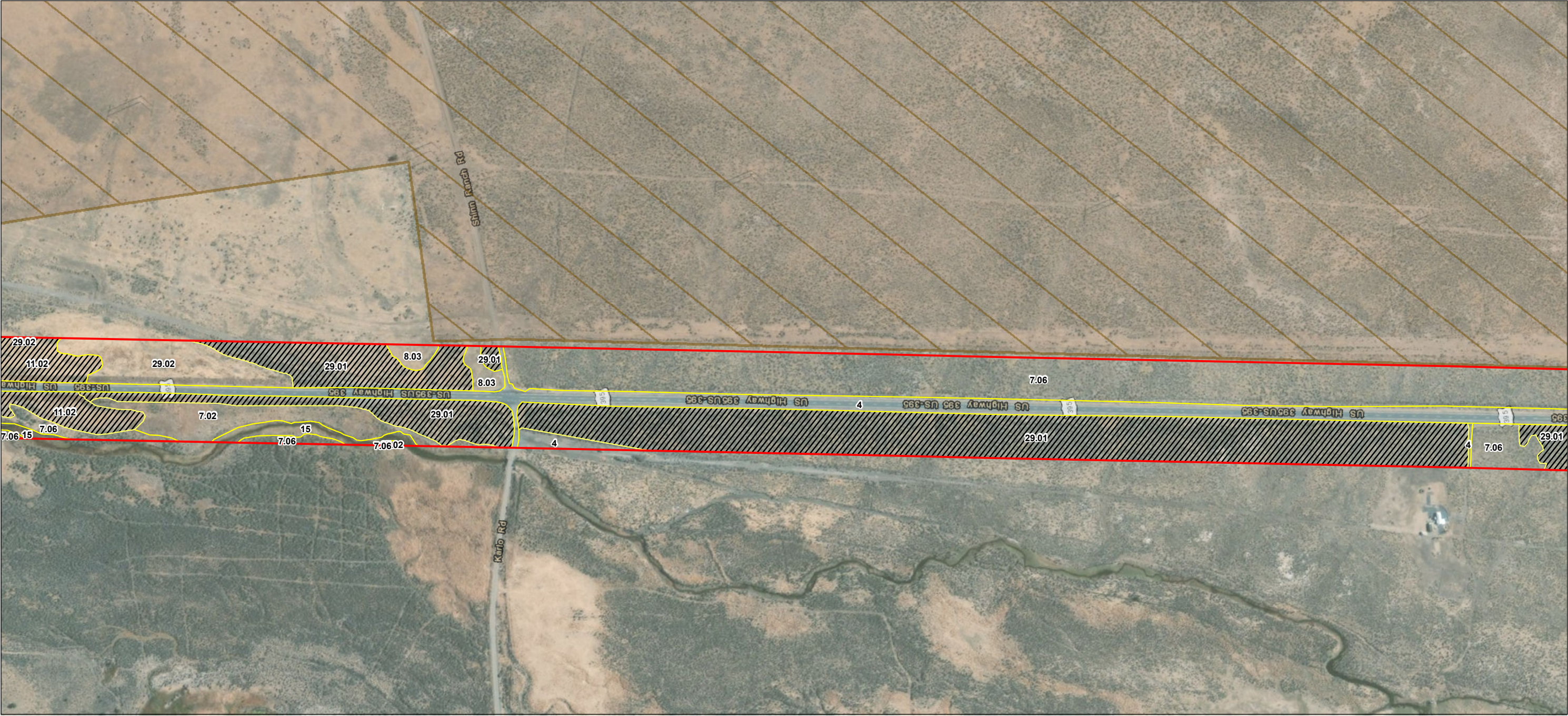
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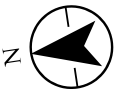
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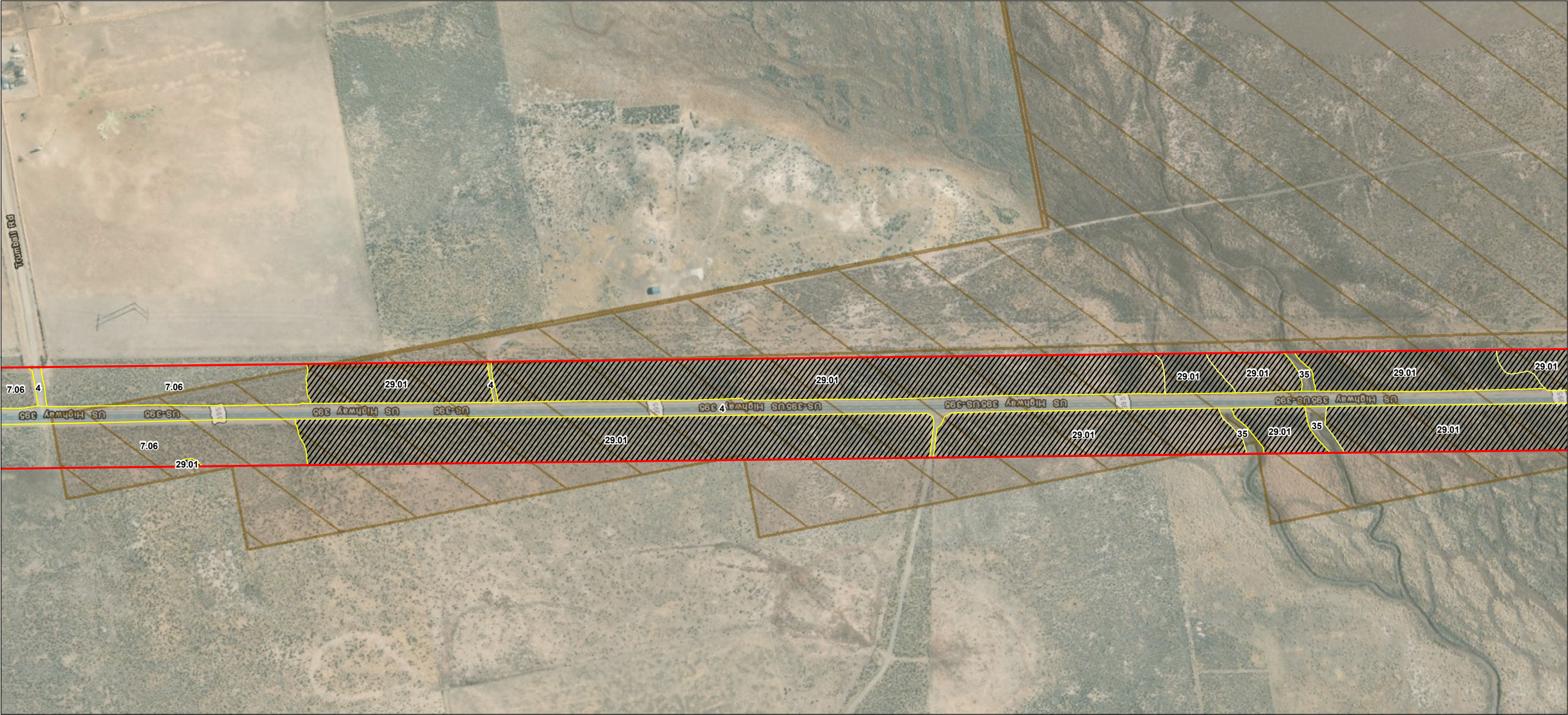
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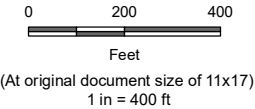
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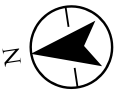
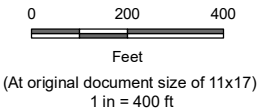
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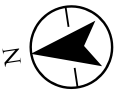
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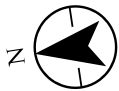
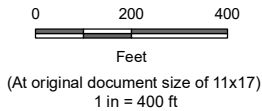
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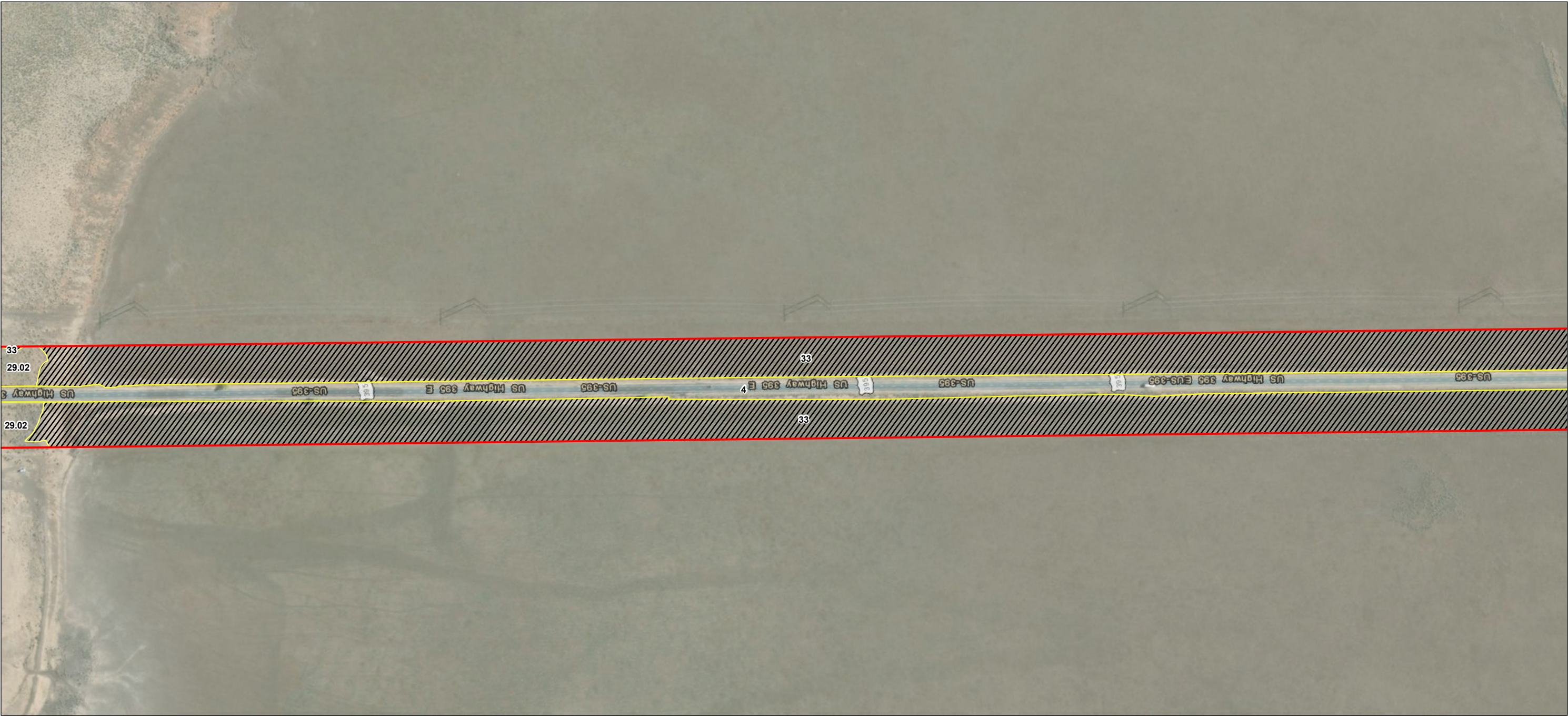
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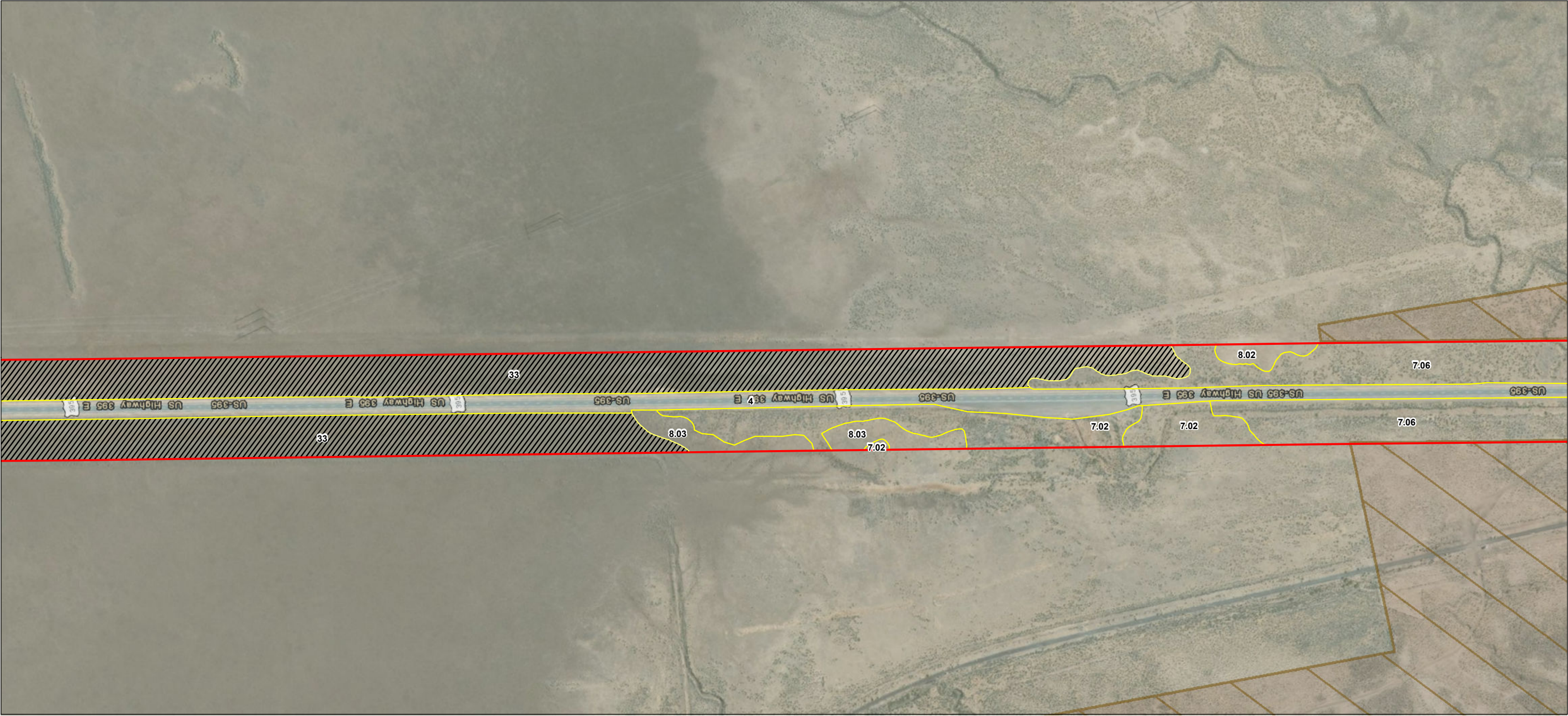
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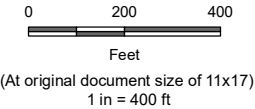
**Notes**  
1. Coordinate System: NAD 1983 UTM Zone 10N  
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- Study Area
- CDFW
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**Natural Community Boundary**

- Sensitive
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(See attached table for Map ID and corresponding vegetation alliances and associations)



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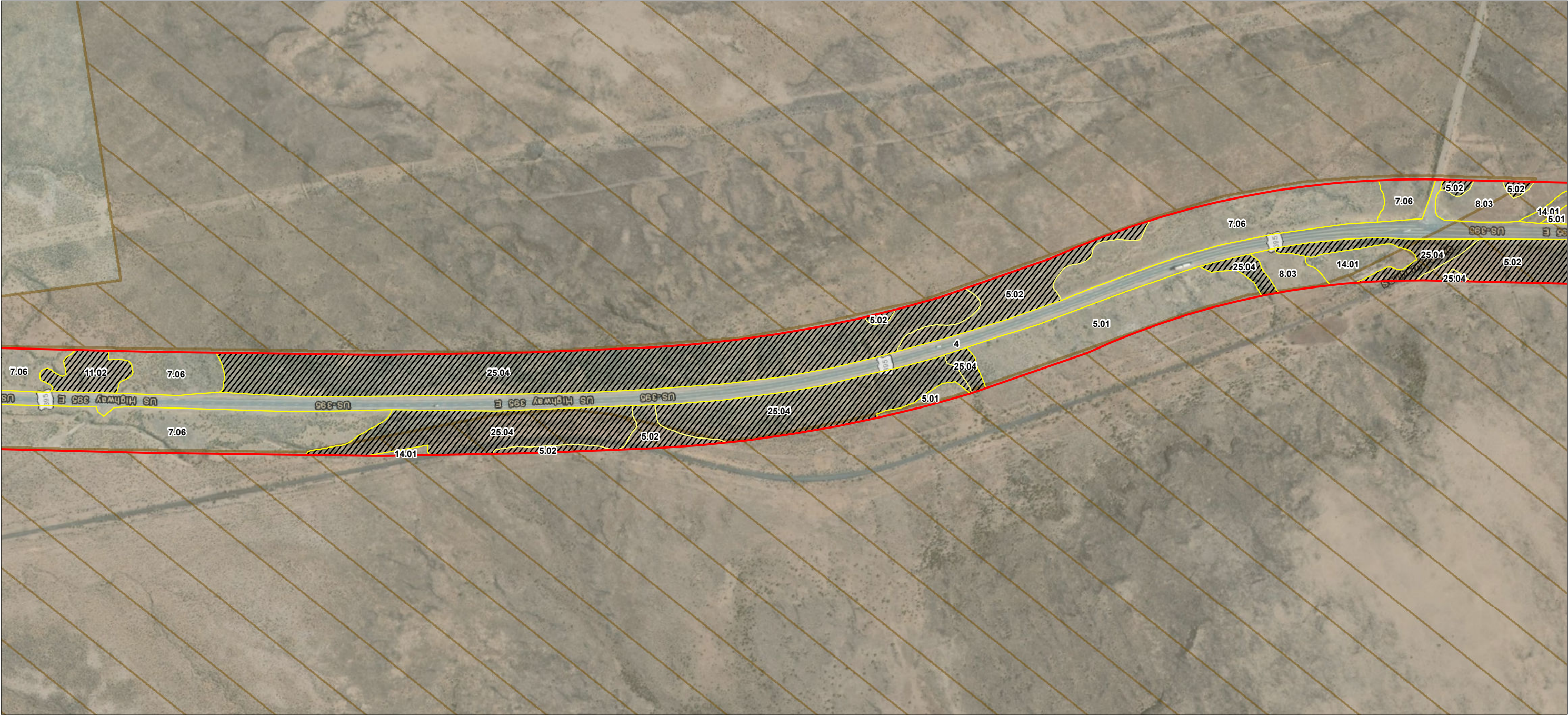
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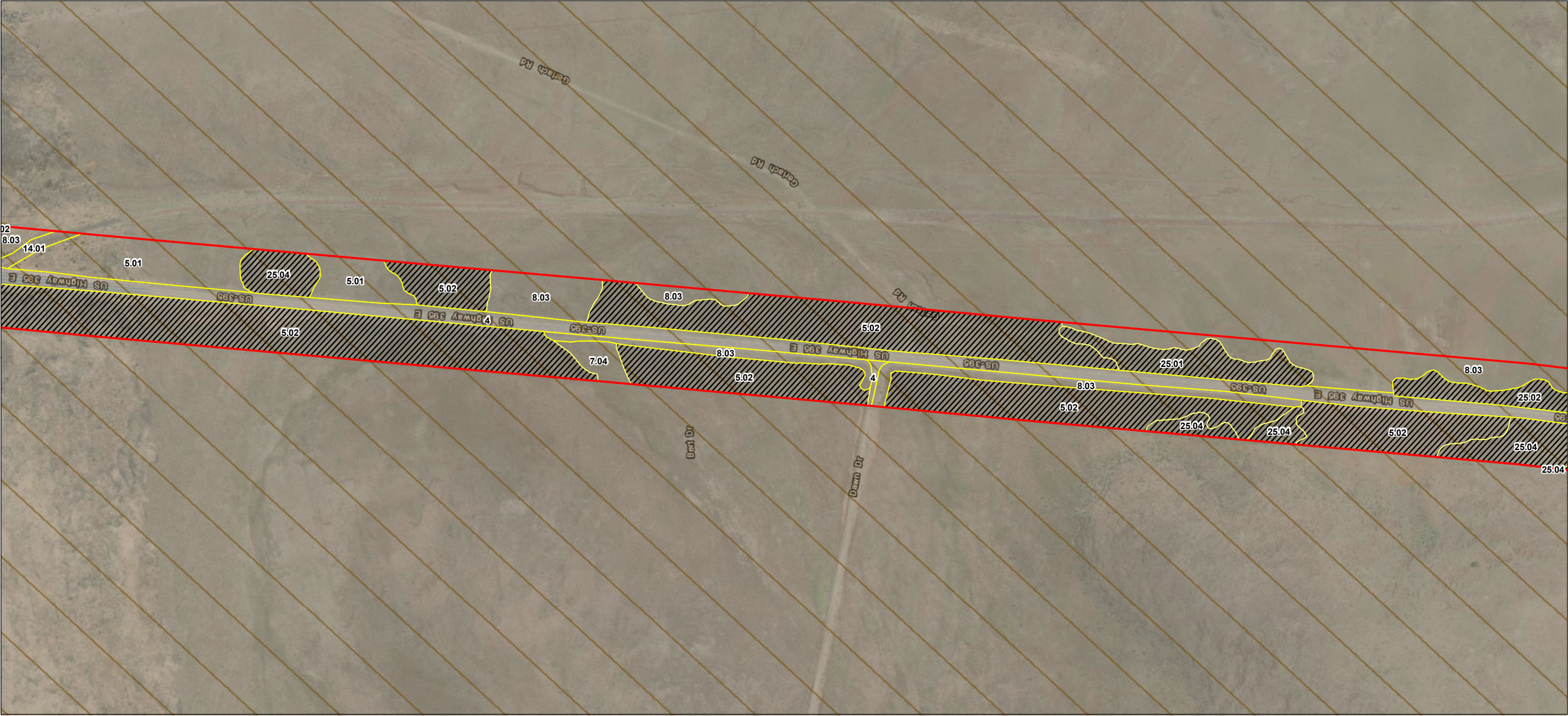
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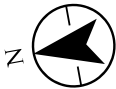
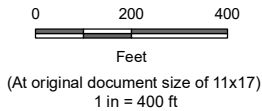
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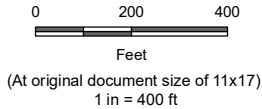
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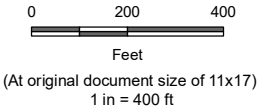
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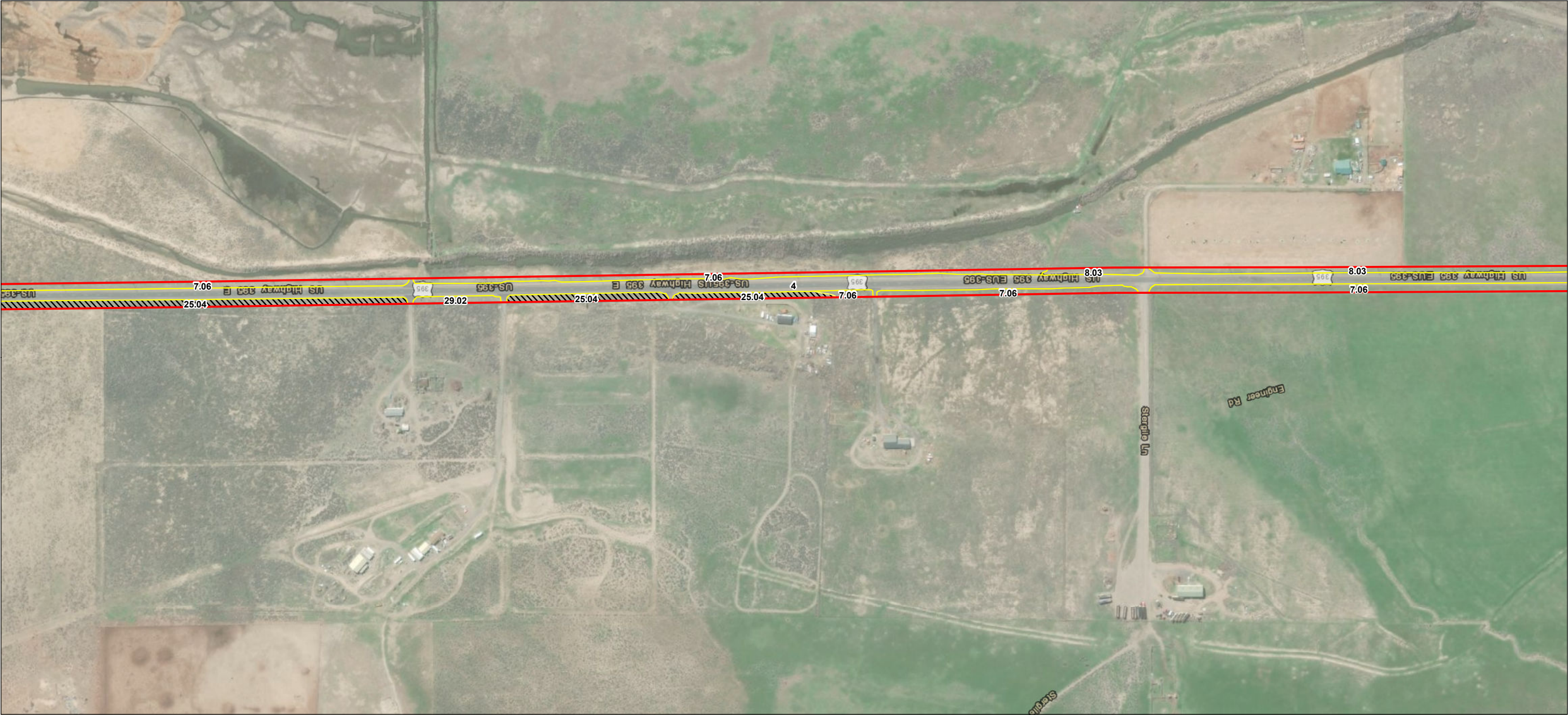
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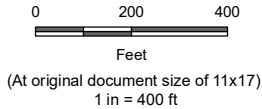
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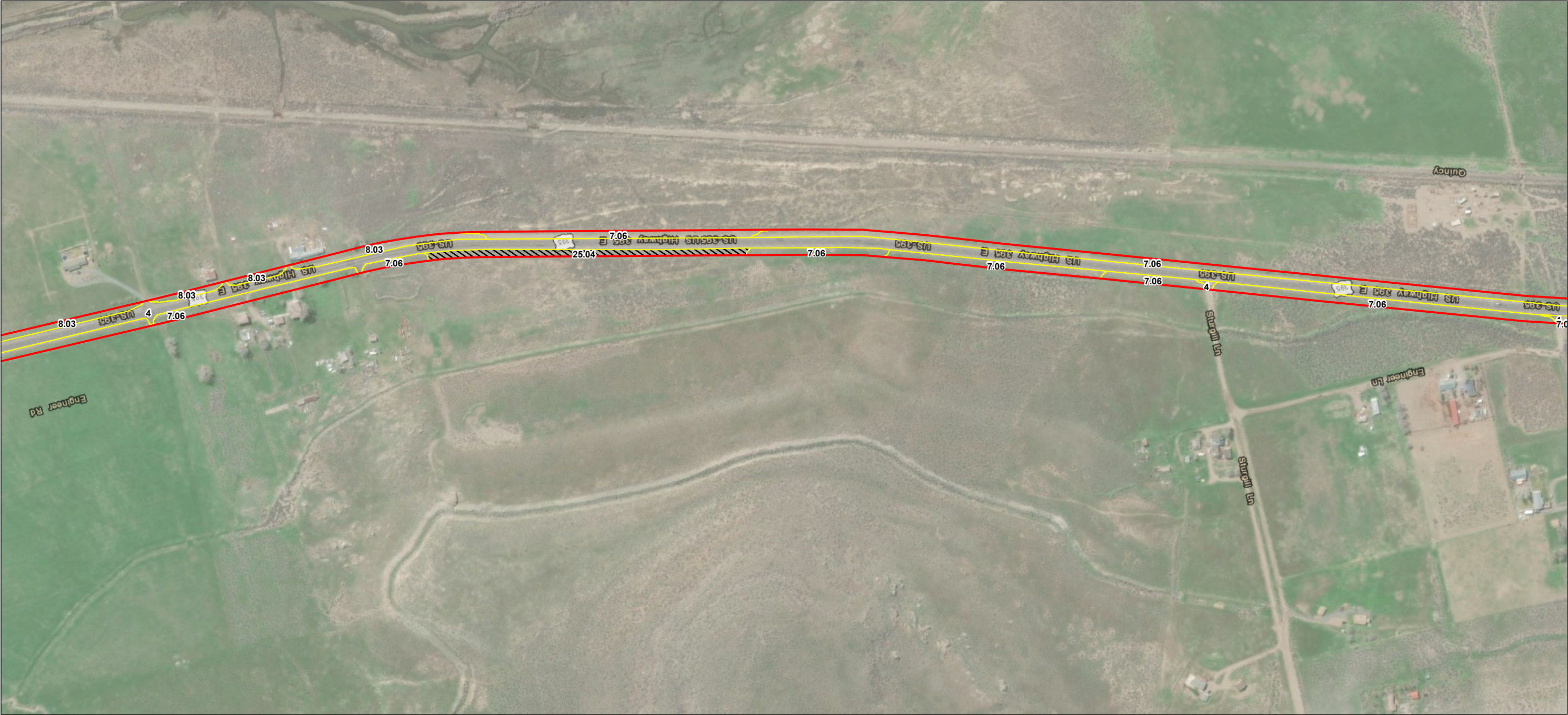
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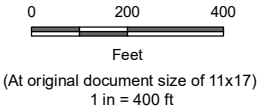
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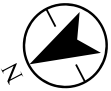
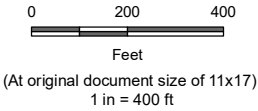




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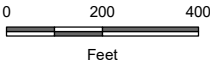
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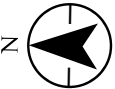
**Natural Community Boundary**

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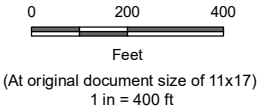
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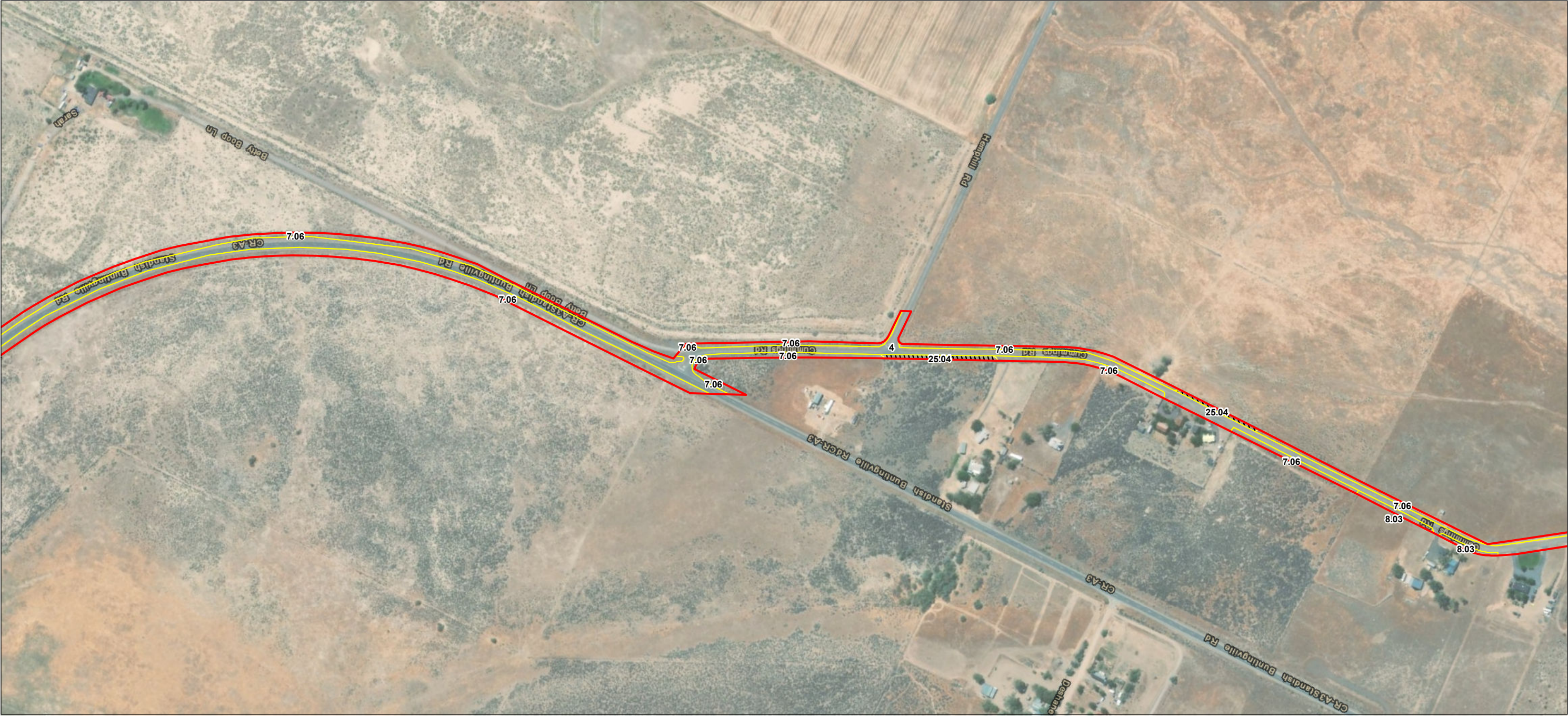
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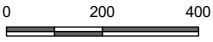
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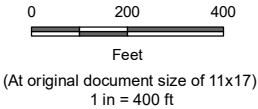
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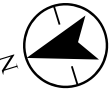
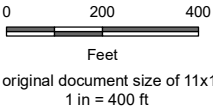
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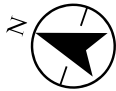
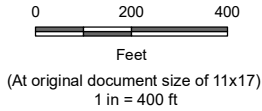
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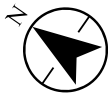
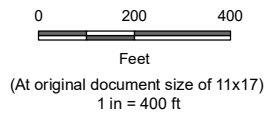
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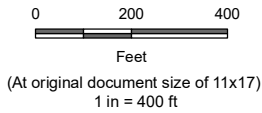
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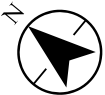
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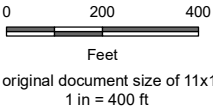
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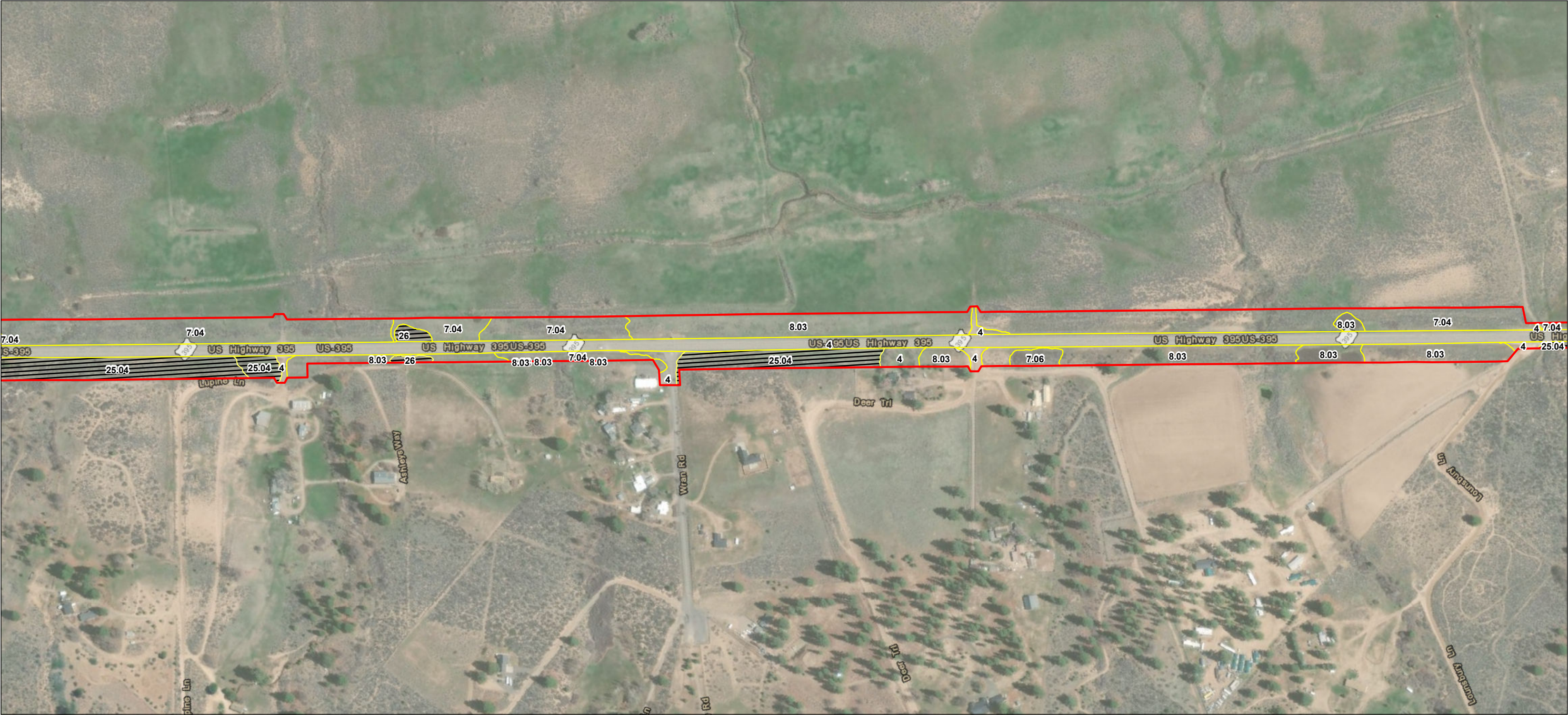
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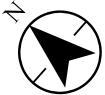
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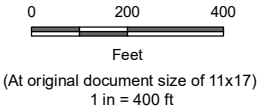
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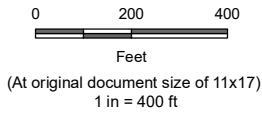
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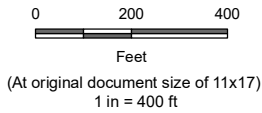
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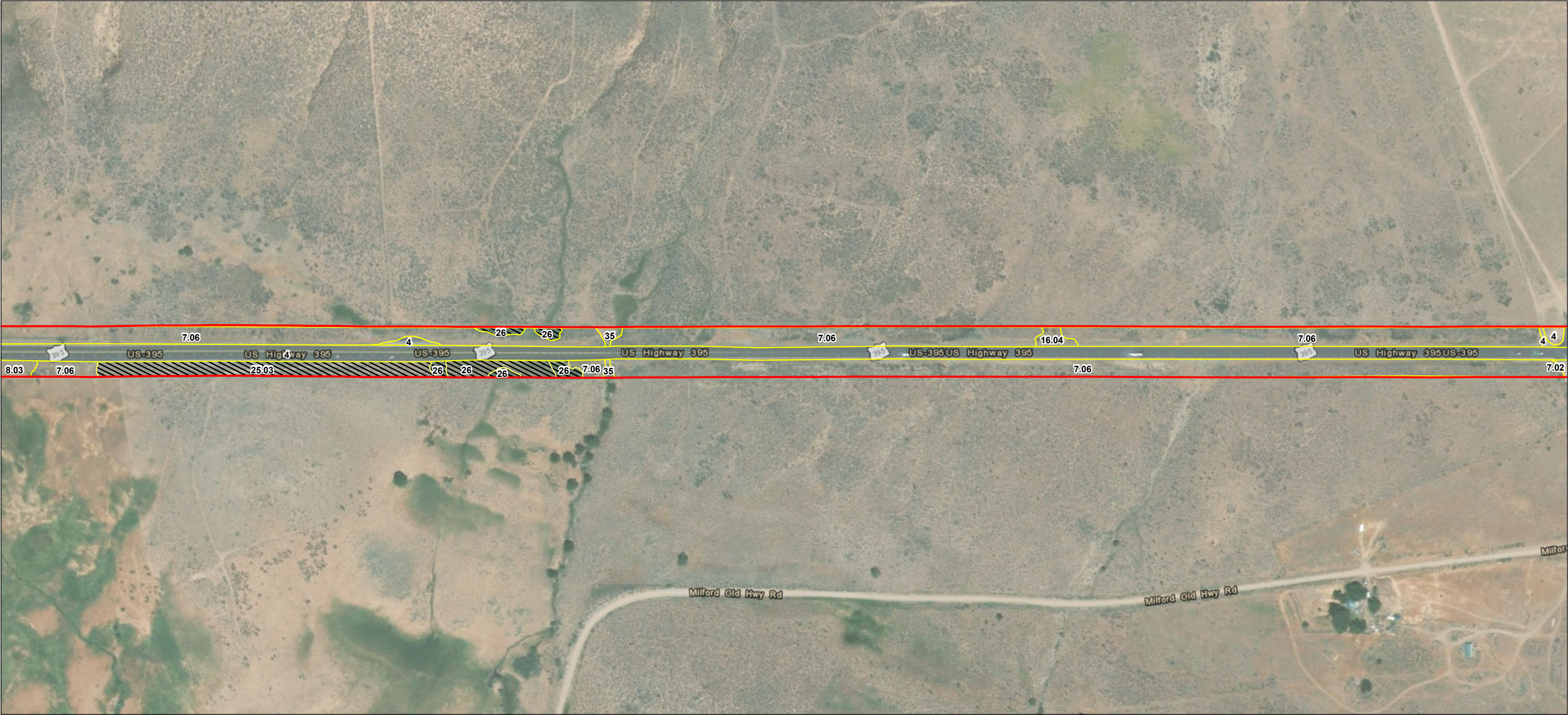
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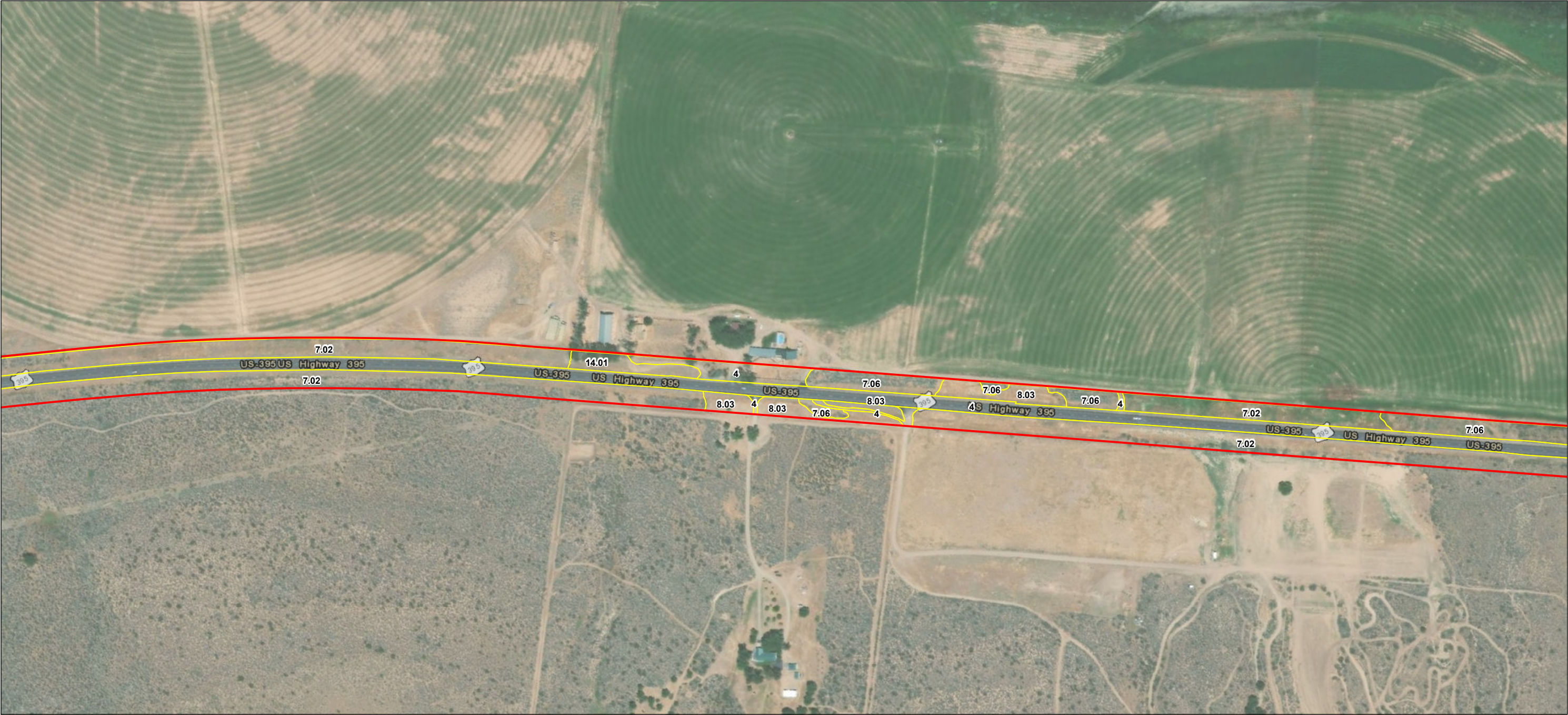
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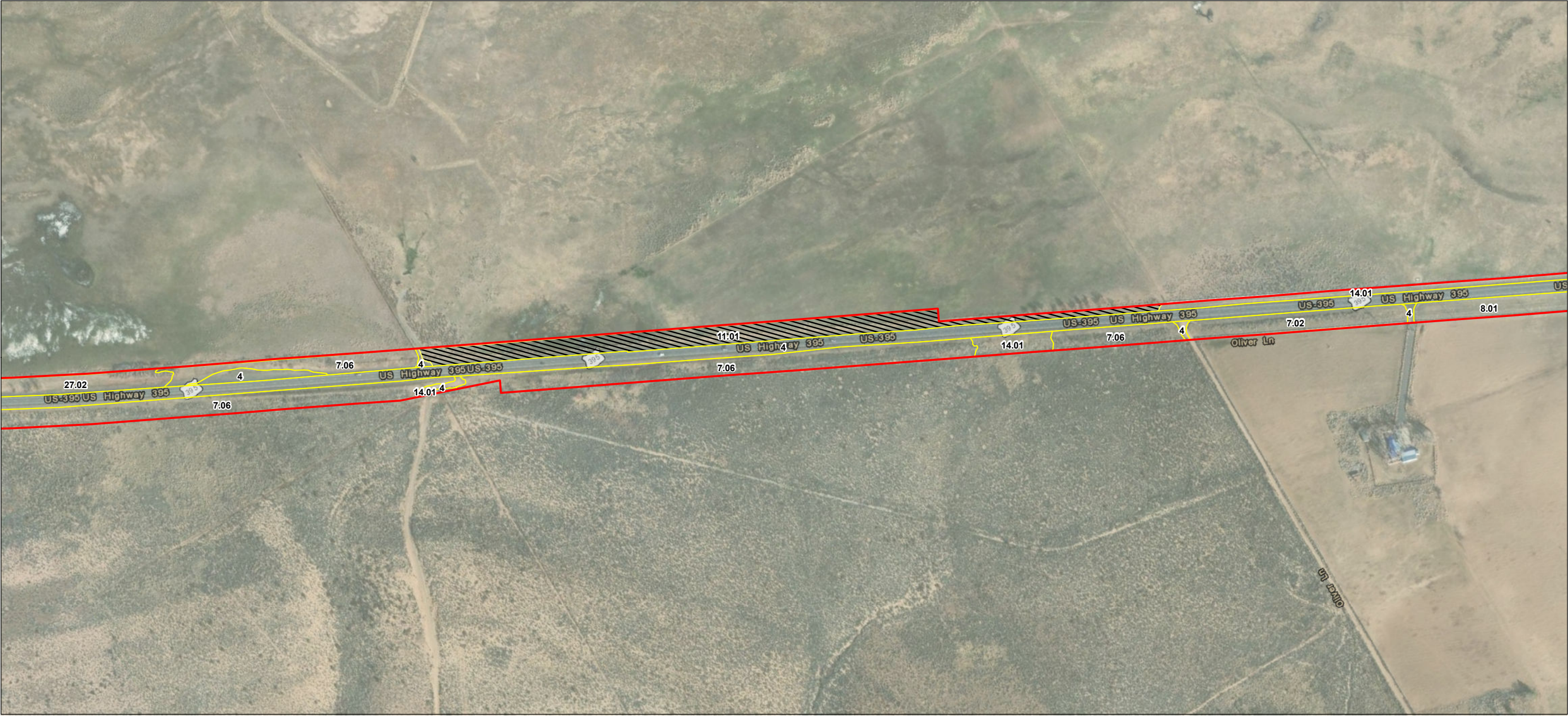
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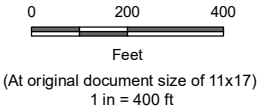
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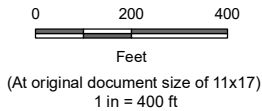
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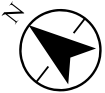
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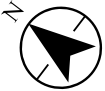
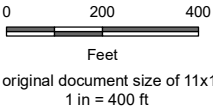
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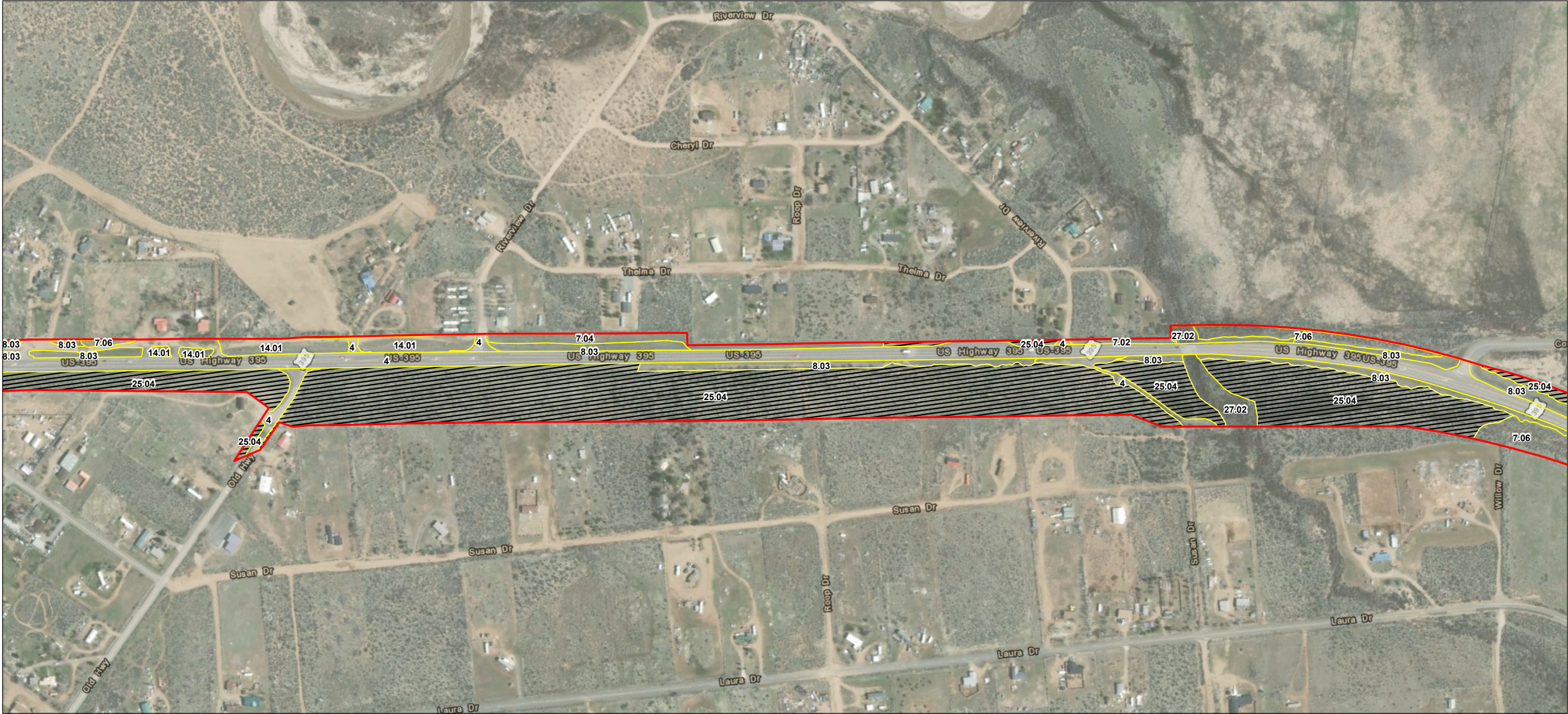
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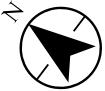
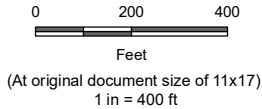
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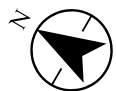
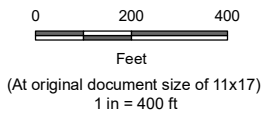


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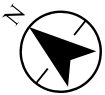
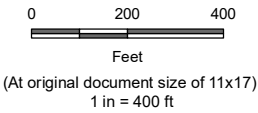
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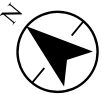
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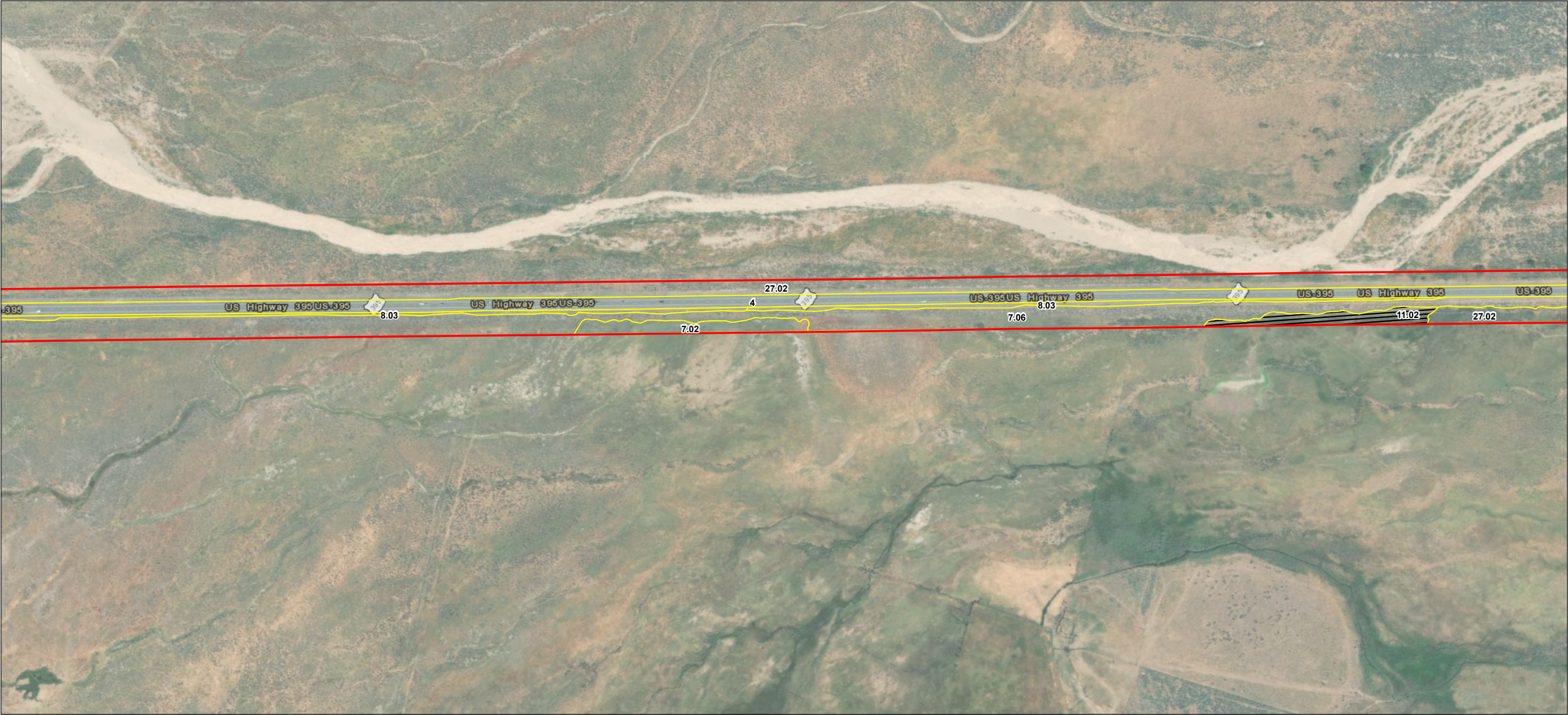
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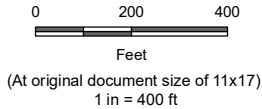
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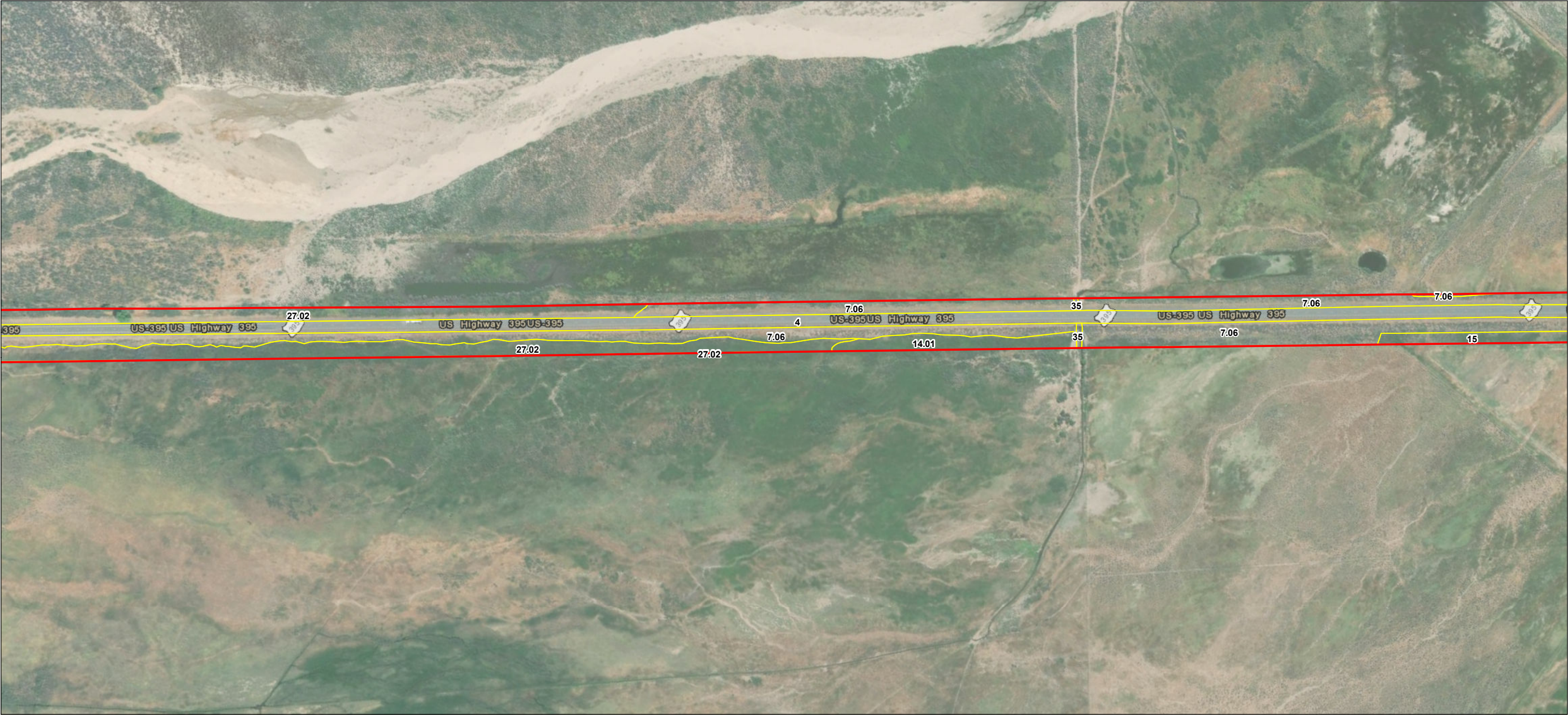
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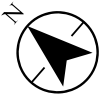
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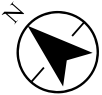
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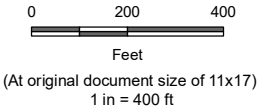
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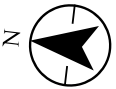
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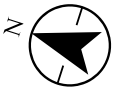
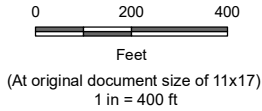
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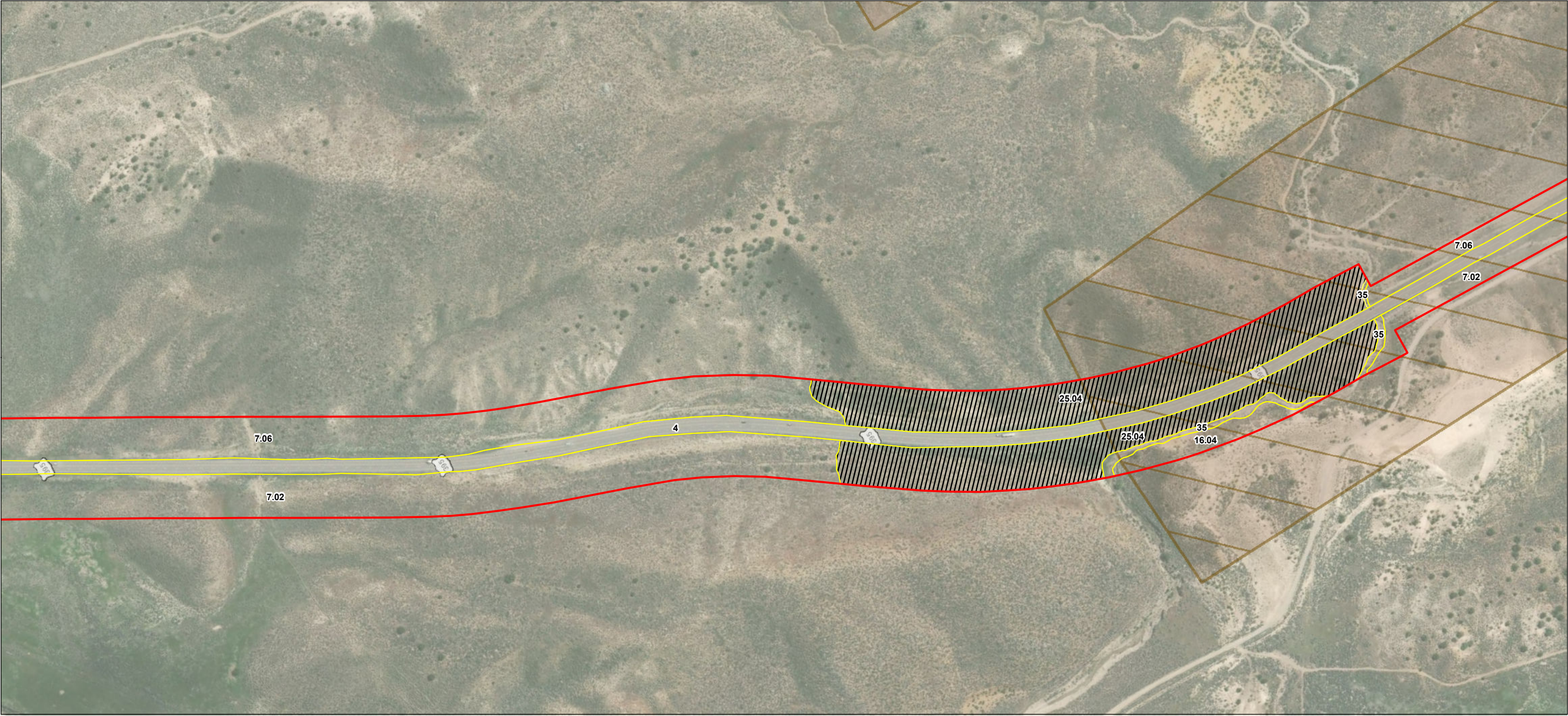








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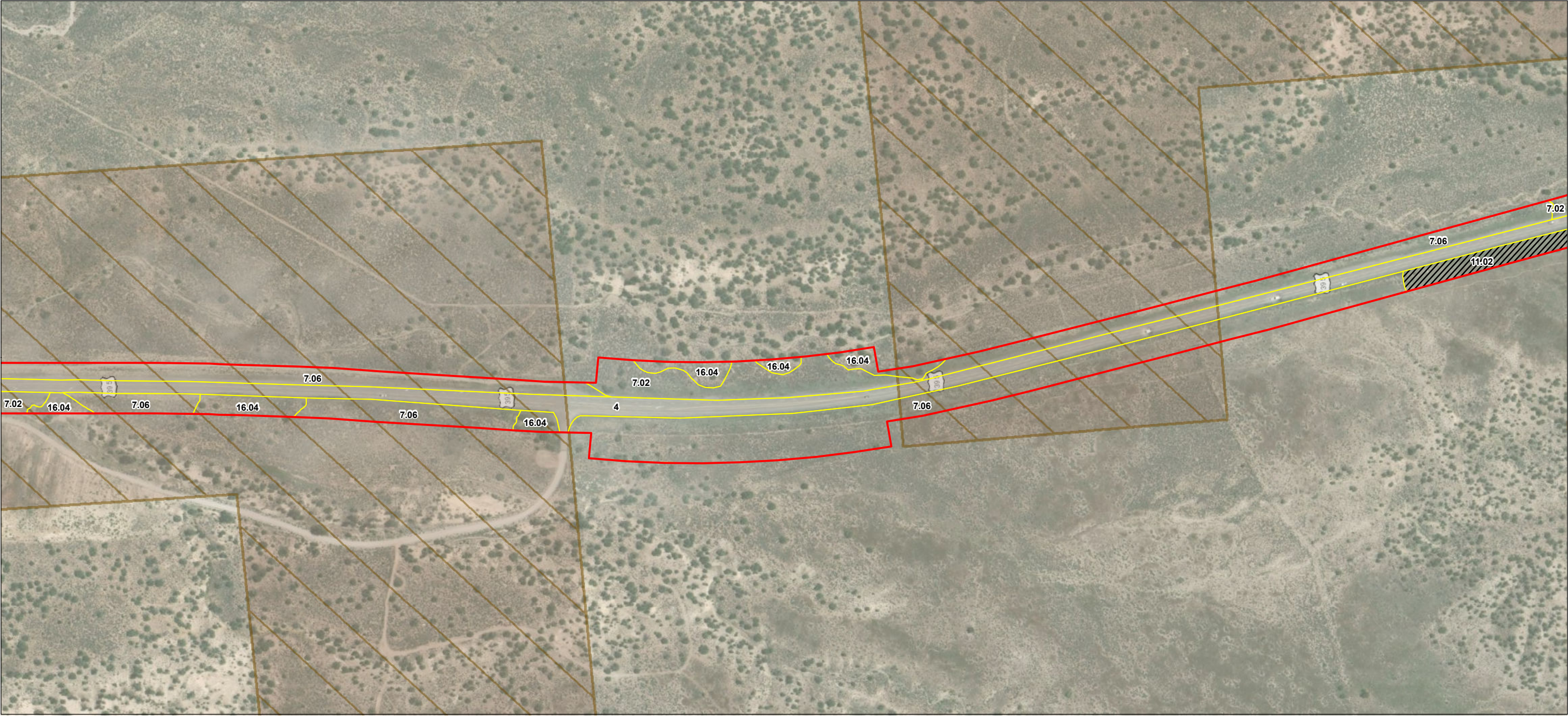
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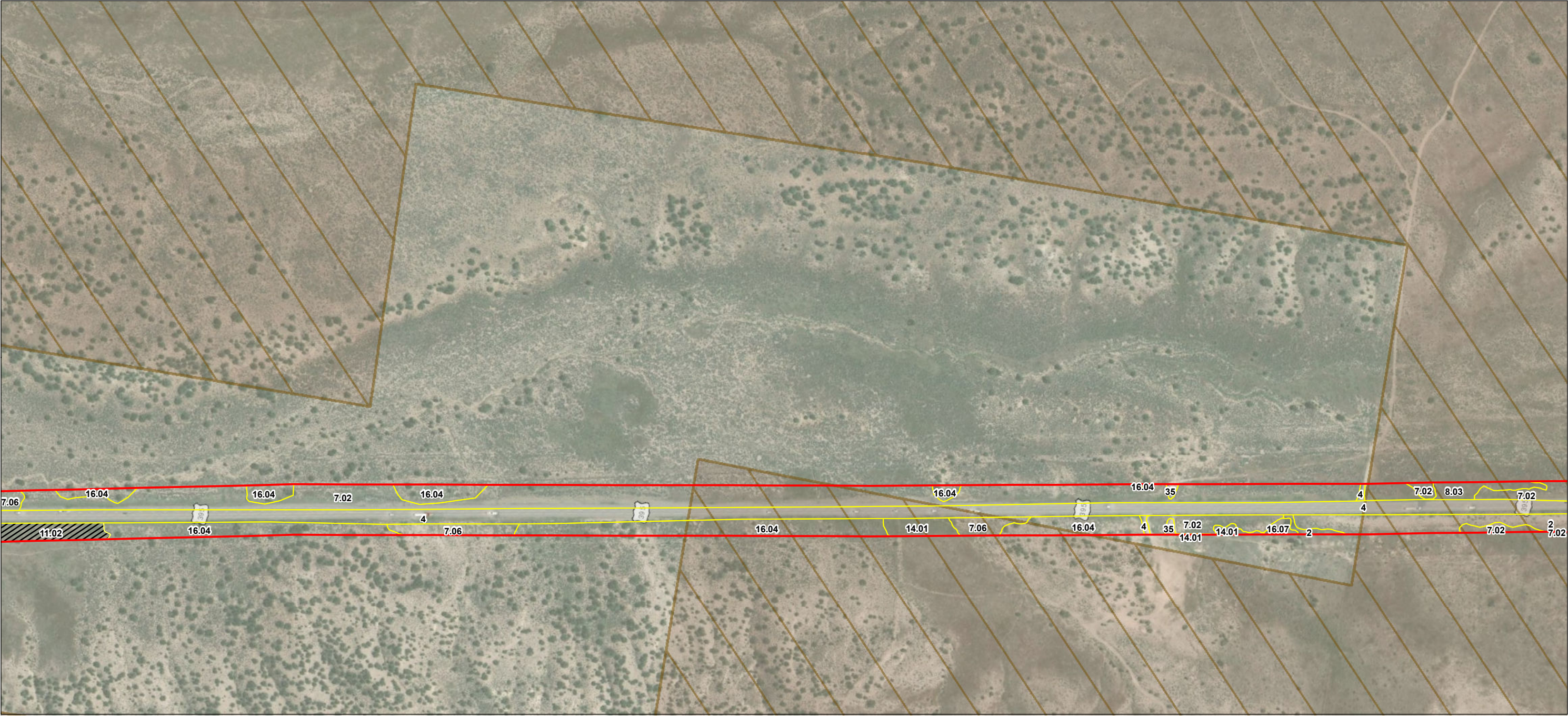
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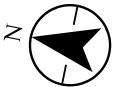
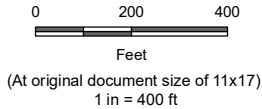
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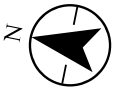
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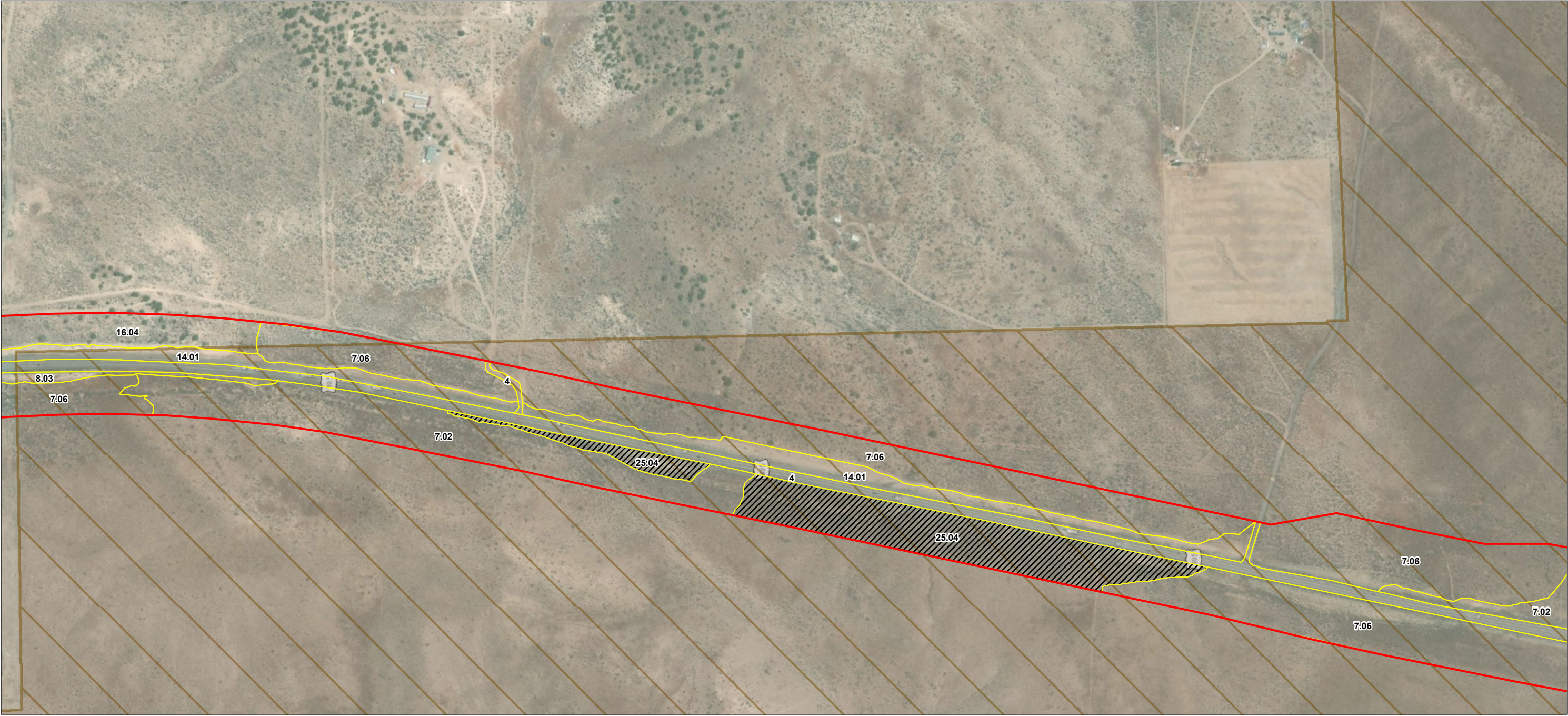
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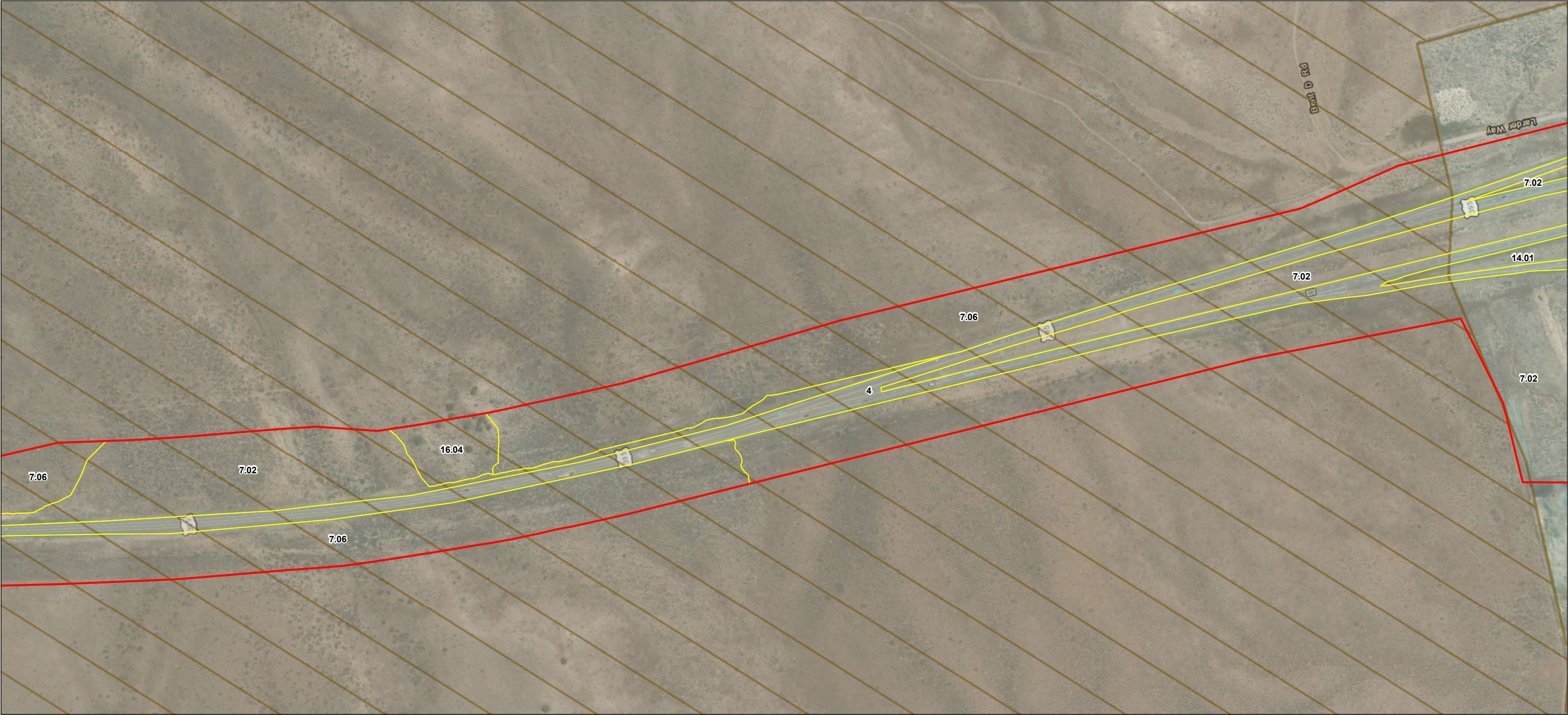
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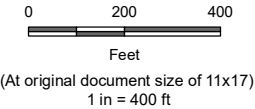
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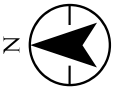
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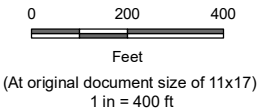
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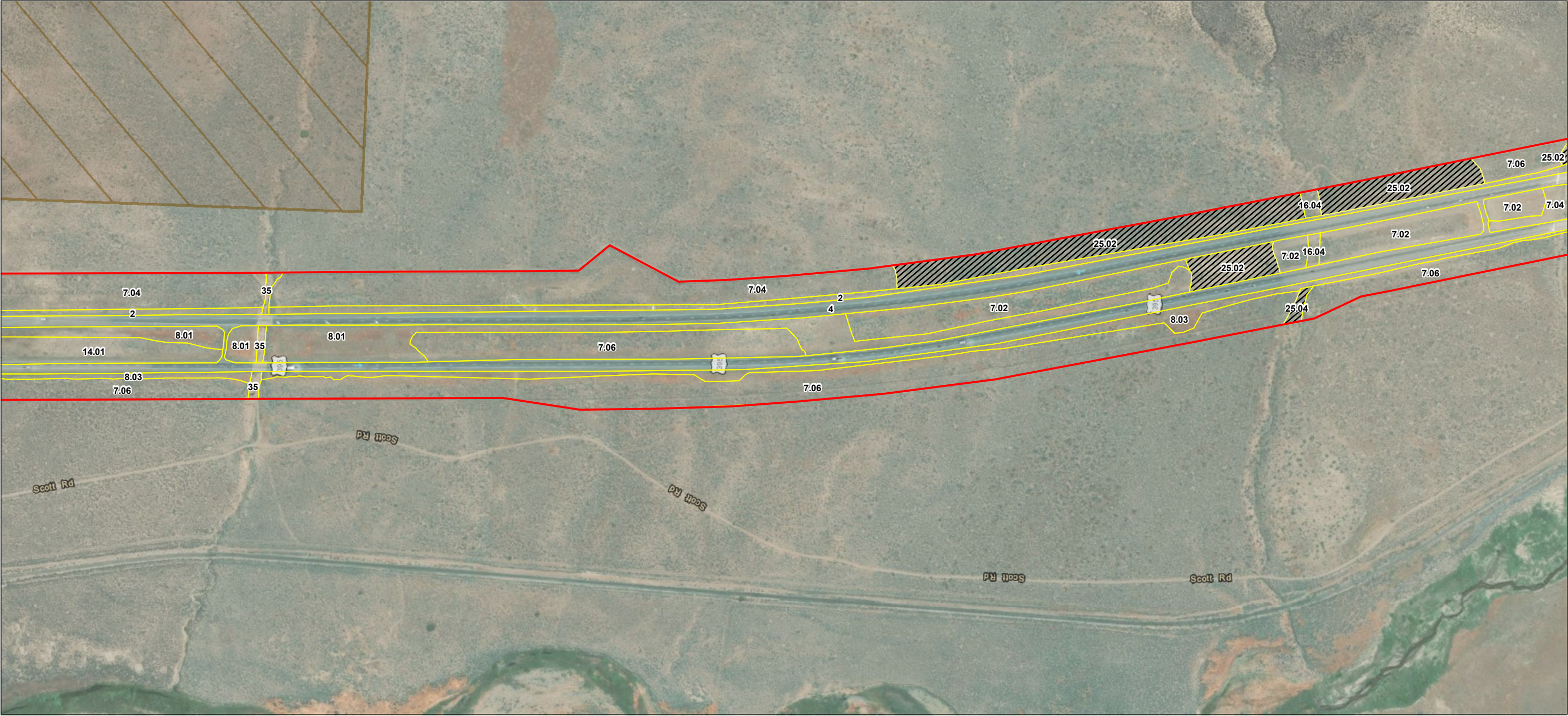
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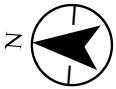
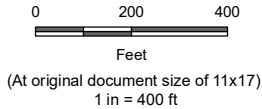
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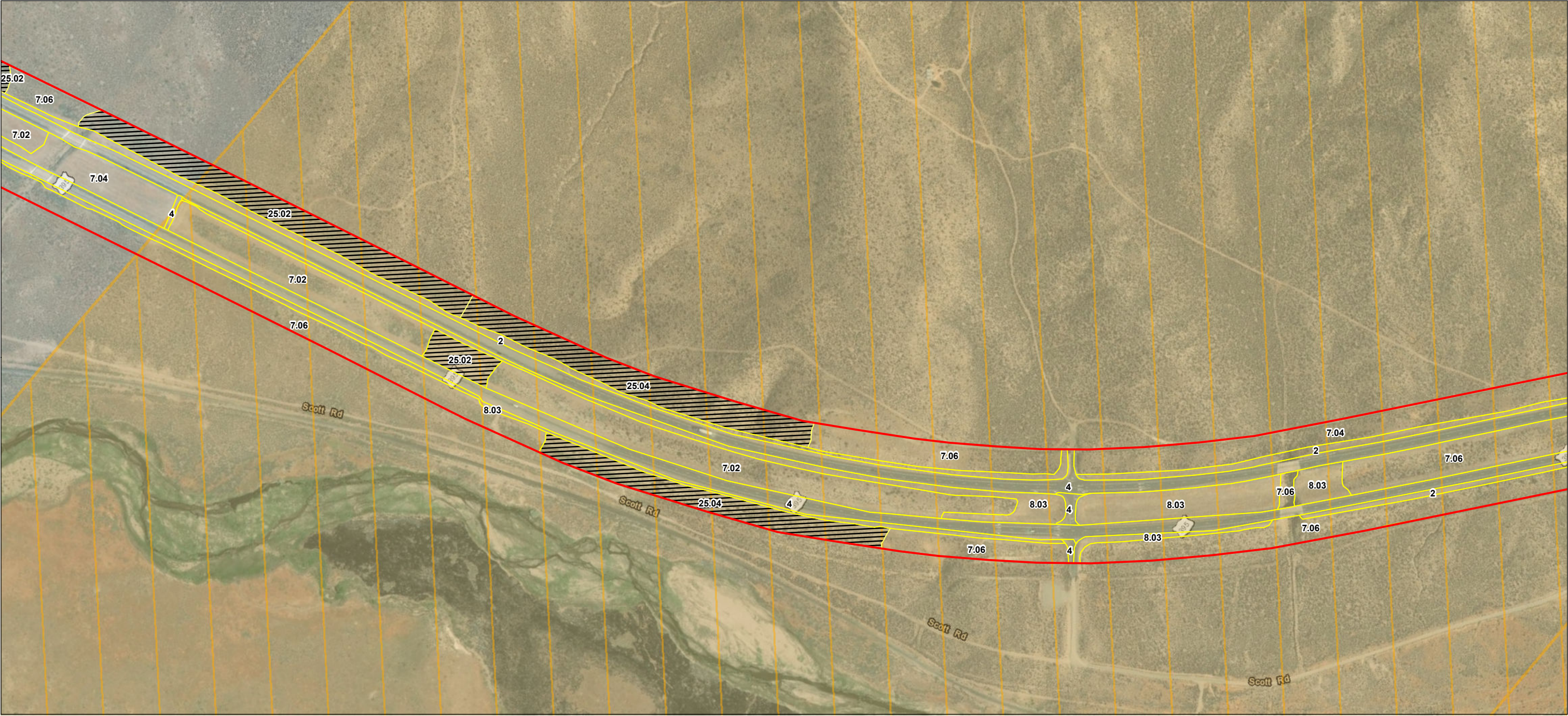
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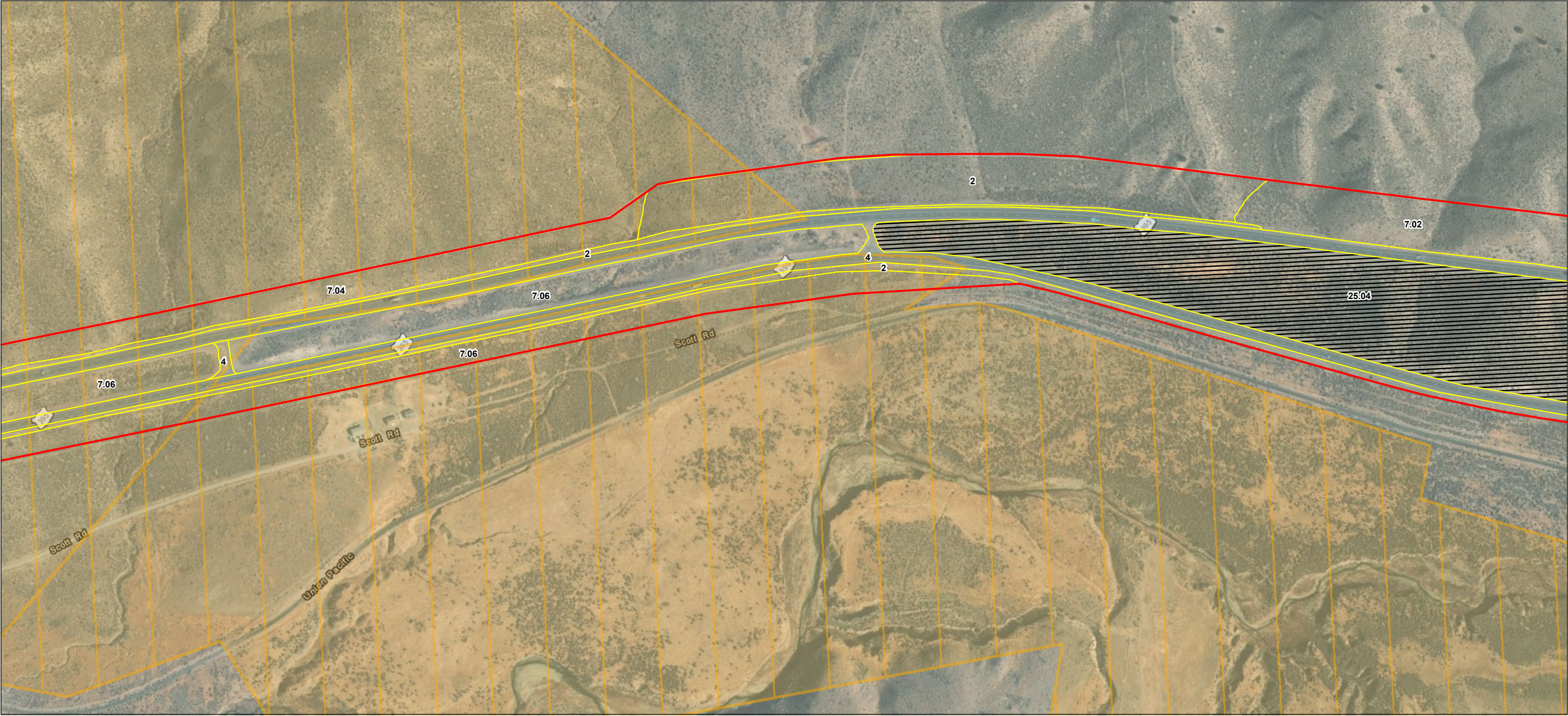
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