

Appendix D: Waters of the U.S. Delineation

MEMORANDUM

TO: Wendy Longley, Central Federal Lands Highway Division (CFLHD) **DATE:** March 28, 2013

FROM: Laura Meyer, Jacobs

SUBJECT: Wetlands and Other Waters of the U.S. Delineation Report, California Forest Highway 89-1(1) Addendum

COPIES: File

This memorandum is an addendum to the *Wetlands and Other Waters of the U.S. Delineation Report, for California Forest Highway 89-1(1)* prepared by Jacobs in November 2012. As described in the report, a delineation of wetlands and other waters of the U.S. was conducted within the identified biological survey area (BSA) between July 24th through July 26th, 2012. The BSA generally extends 22 feet on either side of the existing edge of pavement. However, wider areas were surveyed at crossings of waters of the U.S. and where potential staging and stockpiling activities were identified. The attached documentation is provided to depict the correct BSA and report the acreage of wetlands and other waters of the U.S. within the BSA.

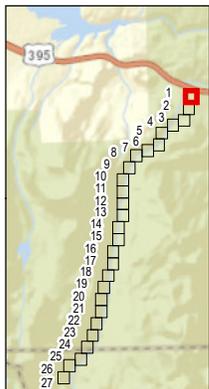
Wetlands and Other Waters of the U.S. in the BSA

LABEL	FEATURE TYPE	STATIONING	WIDTH AT OHW (INCHES)	AREA (SQ FT)	RAPANOS/ CARABELL/ SWANCC COMMENTS	PRESUMED CONNECTIVITY
WETLANDS						
1	Emergent Wetland	1480+00	N/A	691	Wetland	Tributary to Rock Creek Lake
2	Emergent Wetland	1480+00	N/A	61	Wetland	Tributary to Rock Creek Lake
3	Vegetated Swale	1435+00	1	476	NRPW	Tributary to Rock Creek
4	Wetland Seep	1330+00	48	17	NRPW	Tributary to Rock Creek
5	Vegetated Swale	1475+00	1	378	NRPW	Tributary to Rock Creek Lake
47	Seep	1290+00	0	85	NRPW	Tributary to Rock Creek
48	Emergent Wetland	1290+00	0	813	Wetland	Tributary to Rock Creek
<i>Total Jurisdictional Wetlands</i>			<i>2,520 ft² (0.06 ac)</i>			
OTHER WATERS						
1	Open Water	1480+00	120	82	NRPW	Tributary to Rock Creek Lake
2	Intermittent	1475+00	5	72	NRPW	Tributary to Rock Creek Lake
2	Intermittent	1475+00	6	330	NRPW	Tributary to Rock Creek Lake
3	Ephemeral	1475+00	12	77	NRPW	Tributary to Rock Creek Lake
4	Ditch	1465+00	12	89	NRPW	Tributary to Rock Creek Lake
5	Seep	1465+00	24	86	NRPW	Tributary to Rock Creek Lake
6	Ephemeral	1455+00	24	110	NRPW	Tributary to Rock Creek
7	Ditch	1430+00	12	335	NRPW	Tributary to Rock Creek
8	Ditch	1425+00	18	444	NRPW	Tributary to Rock Creek
9	Ephemeral	1425+00	36	18	NRPW	Tributary to Rock Creek
10	Ditch	1425+00	6	69	NRPW	Tributary to Rock Creek
10	Ditch	1420+00	6	92	NRPW	Tributary to Rock Creek
10	Culvert	1420+00	8	16	NRPW	Tributary to Rock Creek
11	Seep	1425+00	120	57	NRPW	Tributary to Rock Creek
12	Ditch	1420+00	12	240	NRPW	Tributary to Rock Creek
13	Ephemeral	1420+00	6	5	NRPW	Tributary to Rock Creek
14	Vegetated Swale	1415+00	48	137	NRPW	Tributary to Rock Creek
15	Ditch	1415+00	12	176	NRPW	Tributary to Rock Creek
16	Ephemeral	1415+00	4	2	NRPW	Tributary to Rock Creek

LABEL	FEATURE TYPE	STATIONING	WIDTH AT OHW (INCHES)	AREA (Sq Ft)	RAPANOS/ CARABELL/ SWANCC COMMENTS	PRESUMED CONNECTIVITY
17	Ephemeral	1415+00	18	292	NRPW	Tributary to Rock Creek
17	Vegetated Swale	1410+00	18	274	NRPW	Tributary to Rock Creek
18	Vegetated Swale	1415+00	14	13	NRPW	Tributary to Rock Creek
19	Ephemeral	1410+00	4	2	NRPW	Tributary to Rock Creek
20	Vegetated Swale	1410+00	8	260	NRPW	Tributary to Rock Creek
21	Vegetated Swale	1405+00	8	124	NRPW	Tributary to Rock Creek
21	Vegetated Swale	1400+00	8	117	NRPW	Tributary to Rock Creek
22	Seep	1395+00	108	90	NRPW	Tributary to Rock Creek
23	Vegetated Swale	1395+00	18	198	NRPW	Tributary to Rock Creek
24	Vegetated Swale	1385+00	36	15	NRPW	Tributary to Rock Creek
25	Vegetated Swale	1385+00	8	84	NRPW	Tributary to Rock Creek
26	Vegetated Swale	1380+00	8	734	NRPW	Tributary to Rock Creek
27	Ephemeral	1380+00	2	0	NRPW	Tributary to Rock Creek
27	Vegetated Swale	1360+00	10	234	NRPW	Tributary to Rock Creek
29	Ephemeral	1365+00	12	99	NRPW	Tributary to Rock Creek
30	Vegetated Swale	1360+00	10	51	NRPW	Tributary to Rock Creek
30	Ephemeral	1360+00	12	1	NRPW	Tributary to Rock Creek
31	Ephemeral	1360+00	24	534	NRPW	Tributary to Rock Creek
32	Ephemeral	1360+00	36	71	NRPW	Tributary to Rock Creek
32	Ephemeral	1350+00	10	26	NRPW	Tributary to Rock Creek
33	Seep	1340+00	10	3	NRPW	Tributary to Rock Creek
35	Culvert	1340+00	12	30	NRPW	Tributary to Rock Creek
36	Ephemeral	1335+00	12	17	NRPW	Tributary to Rock Creek
37	Culvert	1335+00	12	30	NRPW	Tributary to Rock Creek
38	Vegetated Swale	1330+00	12	44	NRPW	Tributary to Rock Creek
38	Ephemeral	1320+00	3	1	NRPW	Tributary to Rock Creek
39	Ditch	1320+00	8	54	NRPW	Tributary to Rock Creek
39	Ditch	1320+00	36	92	NRPW	Tributary to Rock Creek
40	Ephemeral	1320+00	30	12	NRPW	Tributary to Rock Creek
41	Ditch	1315+00	14	422	NRPW	Tributary to Rock Creek
41	Ephemeral	1310+00	36	53	NRPW	Tributary to Rock Creek
42	Ephemeral	1310+00	48	49	NRPW	Tributary to Rock Creek

LABEL	FEATURE TYPE	STATIONING	WIDTH AT OHW (INCHES)	AREA (Sq Ft)	RAPANOS/ CARABELL/ SWANCC COMMENTS	PRESUMED CONNECTIVITY
44	RPW	1070+00	144	7,175	RPW	Rock Creek, tributary to TNW (Owens River)
44	RPW	1075+00	240	8,592	RPW	Rock Creek, tributary to TNW (Owens River)
44	RPW	1100+00	180	373	RPW	Rock Creek, tributary to TNW (Owens River)
44	RPW	1125+00	180	1,603	RPW	Rock Creek, tributary to TNW (Owens River)
44	RPW	1125+00	204	2,333	RPW	Rock Creek, tributary to TNW (Owens River)
44	RPW	1200+00	204	2,660	RPW	Rock Creek, tributary to TNW (Owens River)
44	RPW	1300+00	300	397	RPW	Rock Creek, tributary to TNW (Owens River)
44	RPW	1300+00	240	4,599	RPW	Rock Creek, tributary to TNW (Owens River)
45	Vegetated Swale	1290+00	30	505	NRPW	Tributary to Rock Creek
46	Ephemeral	1220+00	24	34	NRPW	Tributary to Rock Creek
49	Intermittent	1290+00	60	885	NRPW	Tributary to Rock Creek
49	Intermittent	1285+00	72	2,274	NRPW	Tributary to Rock Creek
50	Intermittent	1285+00	72	64	NRPW	Tributary to Rock Creek
51	Intermittent	1285+00	60	91	NRPW	Tributary to Rock Creek
52	Intermittent	1285+00	60	102	NRPW	Tributary to Rock Creek
53	Intermittent	1285+00	72	87	NRPW	Tributary to Rock Creek
54	Vegetated Swale	1190+00	12	70	NRPW	Tributary to Rock Creek
55	Ditch	1190+00	12	70	NRPW	Tributary to Rock Creek
56	Seep	1165+00	18	99	NRPW	Tributary to Rock Creek
Total Jurisdictional Waters				38,475 ft² (0.88ac)		
Non-Jurisdictional Features						
28	Ditch	1380+00	8	265	Ditch	No connectivity
30	Vegetated Swale	1360+00	10	161	NRPW	No connectivity (overflow from culvert)
34	Vegetated Swale	1350+00	10	25	NRPW	No connectivity (overflow from culvert)
43	Ditch	1310+00	24	57	NRPW	Drains uplands into Rock Creek
Total Non-Jurisdictional Features				507 ft² (0.01ac)		
Total Jurisdictional Waters and Wetlands				40,995 ft² (0.94ac)		

DELINEATION MAPS



Project Title: Rock Creek Road Replacement
 Delineators: Misha Seguin, Phill Peters - Jacobs
 Date of Survey: July 24-26, 2012
 Date of Report Preparation: March 15, 2013
 Data Source: Orthophoto - NAIP Inyo Co. 2009,
 Study Area & WUS - Digitized/GPSd Jacobs 2012.

1 inch = 200 feet



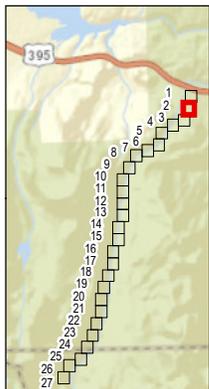
Note: During field surveys, the survey area for WUS exceeded the BSA in some areas to ensure there would be no gaps in the data collection for the BSA. The extent of the WUS beyond mapped features is unknown.

Potential WUS within BSA

- | | | |
|------------------------|-----------------------------|----------------------------------|
| Culvert (CULV) | Ephemeral Drainage (EPH) | Culvert |
| Roadside Ditch (Ditch) | Intermittent Drainage (INT) | Data Point |
| Open Water (OW) | Perennial Drainage (PER) | Biological Study Area (BSA) |
| Emergent Wetland (EW) | Seep (Seep) | <u>Potential WUS Outside BSA</u> |
| | Vegetated Swale (VS) | Other Waters |
| | | Wetland |

EPH - Ephemeral Drainage
 EW - Emergent Wetland
 CULV - Culvert (Ephem)
 ditch - Roadside ditch
 INT - Intermittent Drainage
 OW - Open Water
 PER - Perennial Drainage
 Seep - Seep

VS - Vegetated Swale
 #a - Wetland data point
 #b - Upland data point
 #x - Data point - no WUS
 W - Width at OHWM
 (if W=0, then N/A)



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Potential WUS within BSA

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- Roadside Ditch (Ditch)
- Open Water (OW)
- Emergent Wetland (EW)

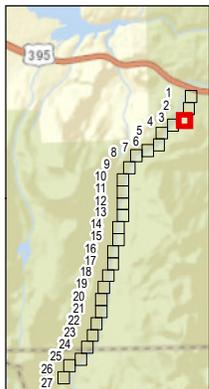
- Ephemeral Drainage (EPH)
- Intermittent Drainage (INT)
- Perennial Drainage (PER)
- Seep (Seep)
- Vegetated Swale (VS)

Potential WUS Outside BSA

- Culvert
- Data Point
- Biological Study Area (BSA)
- Other Waters
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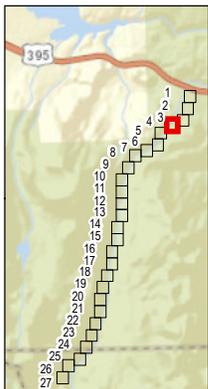
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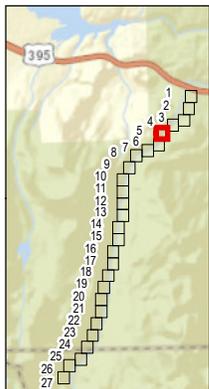
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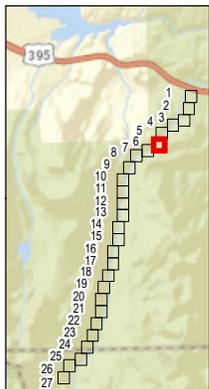
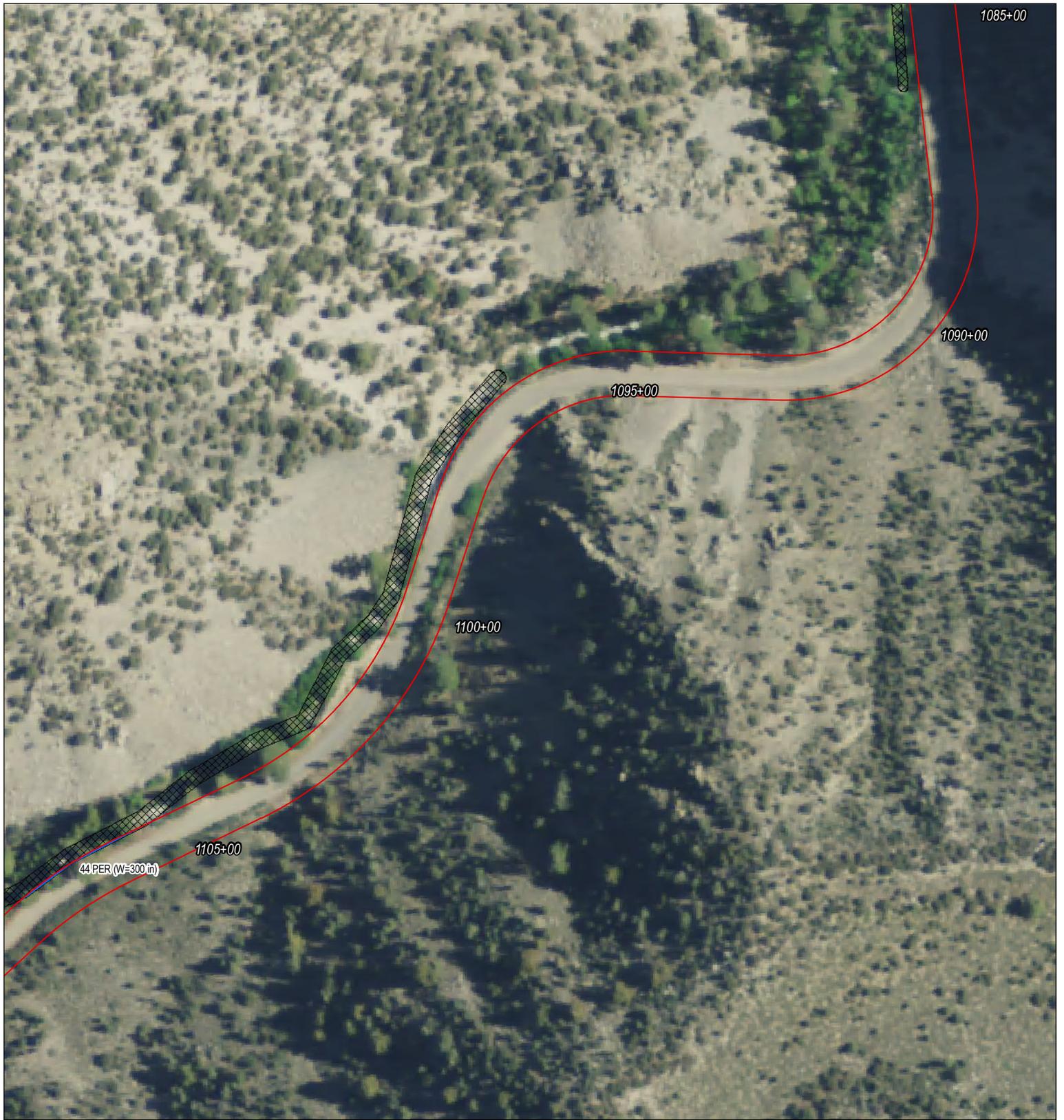
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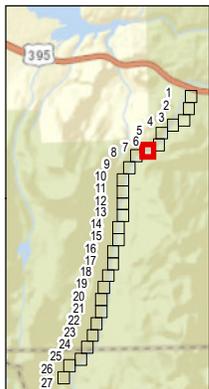
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Potential WUS within BSA

- Culvert (CULV)
- Roadside Ditch (Ditch)
- Open Water (OW)
- Emergent Wetland (EW)
- Ephemeral Drainage (EPH)
- Intermittent Drainage (INT)
- Perennial Drainage (PER)
- Seep (Seep)
- Vegetated Swale (VS)

Culvert

Data Point

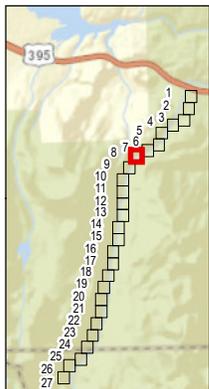
Biological Study Area (BSA)

Potential WUS Outside BSA

- Other Waters
- Wetland

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0 100 200 Feet



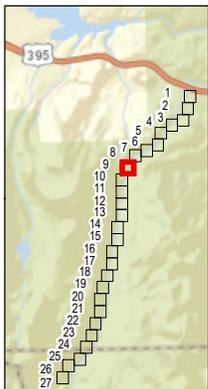
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Potential WUS within BSA

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| Roadside Ditch (Ditch) | Intermittent Drainage (INT) | Data Point |
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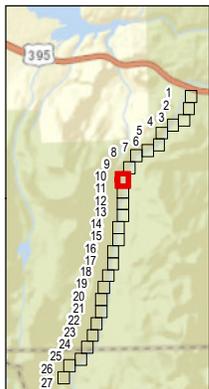
Potential WUS within BSA

- Culvert (CULV)
- Roadside Ditch (Ditch)
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- Emergent Wetland (EW)
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- Culvert
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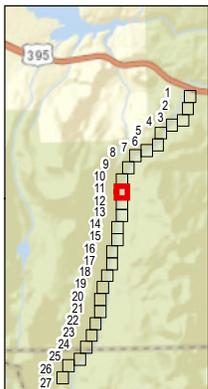
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| | Vegetated Swale (VS) | Other Waters |
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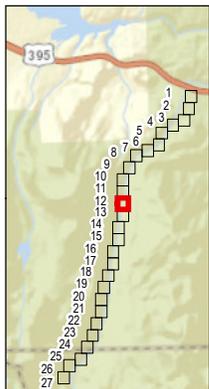
- Culvert (CULV)
- Roadside Ditch (Ditch)
- Open Water (OW)
- Emergent Wetland (EW)

- Ephemeral Drainage (EPH)
- Intermittent Drainage (INT)
- Perennial Drainage (PER)
- Seep (Seep)
- Vegetated Swale (VS)

- Culvert
 - Data Point
 - Biological Study Area (BSA)
- Potential WUS Outside BSA
- Other Waters
 - Wetland

- EPH - Ephemeral Drainage
- EW - Emergent Wetland
- CULV - Culvert (Ephem)
- ditch - Roadside ditch
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- #a - Wetland data point
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- #x - Data point - no WUS
- W - Width at OHWM (if W=0, then N/A)



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1 inch = 200 feet



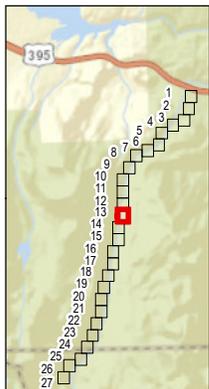
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Potential WUS within BSA

- | | | |
|------------------------|-----------------------------|----------------------------------|
| Culvert (CULV) | Ephemeral Drainage (EPH) | Culvert |
| Roadside Ditch (Ditch) | Intermittent Drainage (INT) | Data Point |
| Open Water (OW) | Perennial Drainage (PER) | Biological Study Area (BSA) |
| Emergent Wetland (EW) | Seep (Seep) | <u>Potential WUS Outside BSA</u> |
| | Vegetated Swale (VS) | Other Waters |
| | | Wetland |

EPH - Ephemeral Drainage
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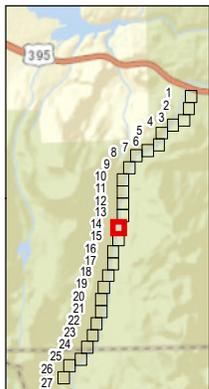
Potential WUS within BSA

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- Roadside Ditch (Ditch)
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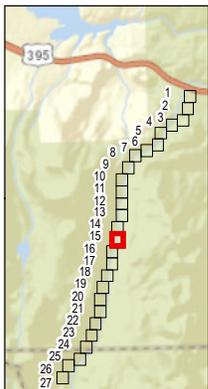
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| | Vegetated Swale (VS) | Other Waters |
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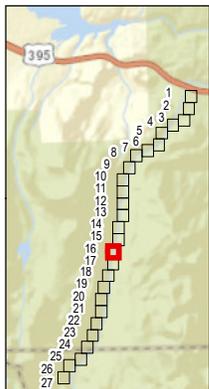
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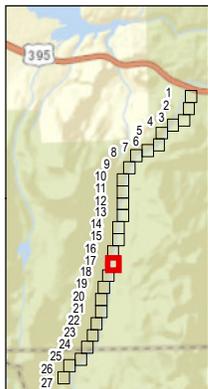
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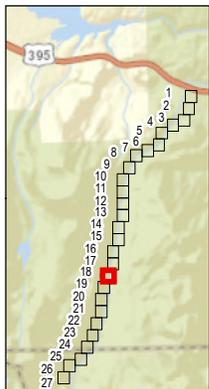
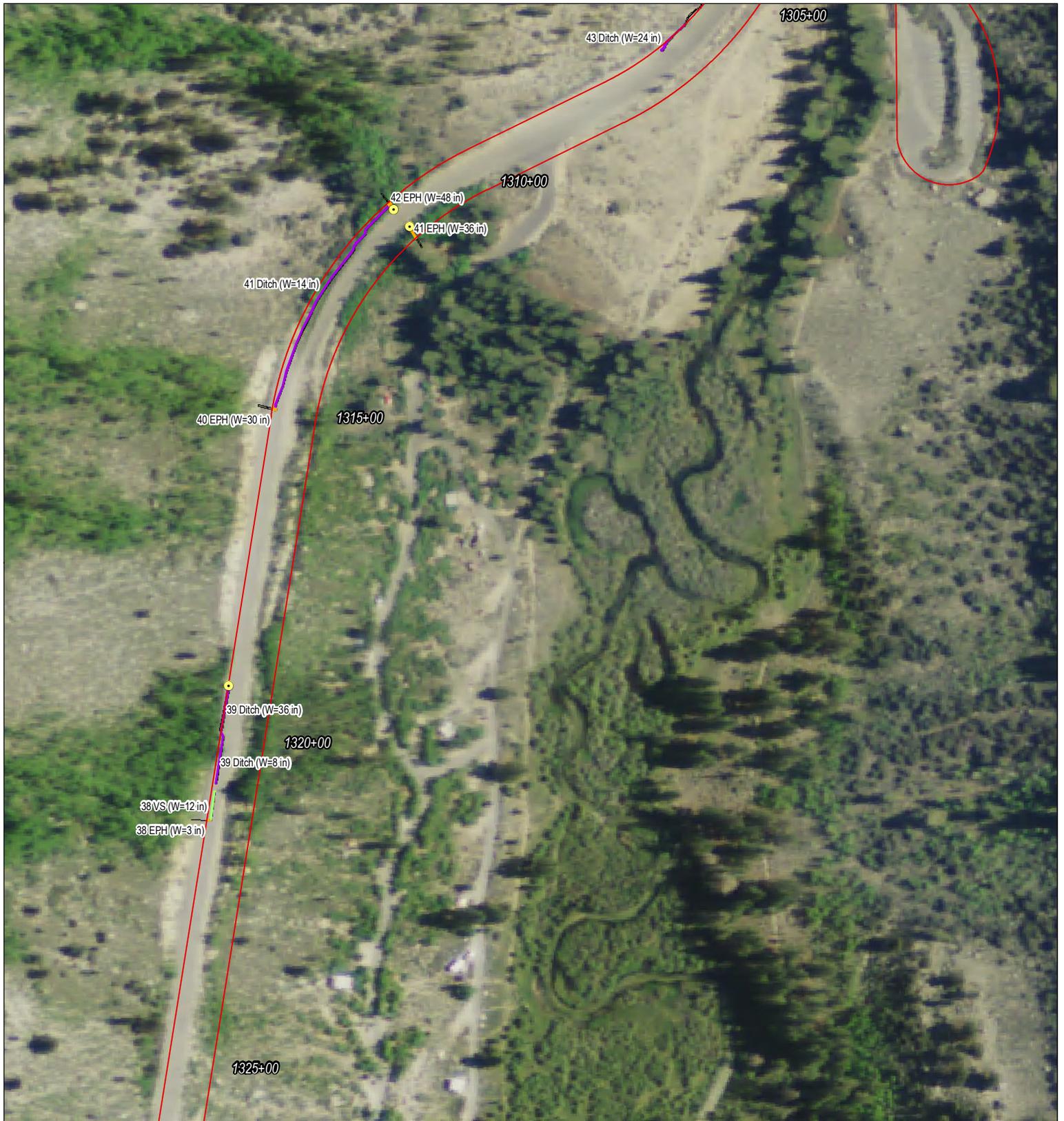
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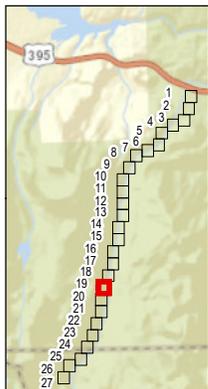
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- Vegetated Swale (VS)

Culvert

Data Point

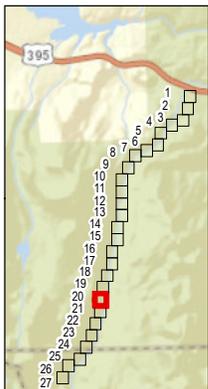
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Potential WUS Outside BSA

- Other Waters
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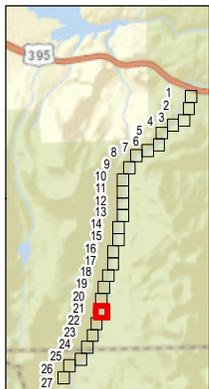
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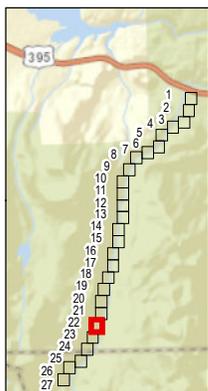
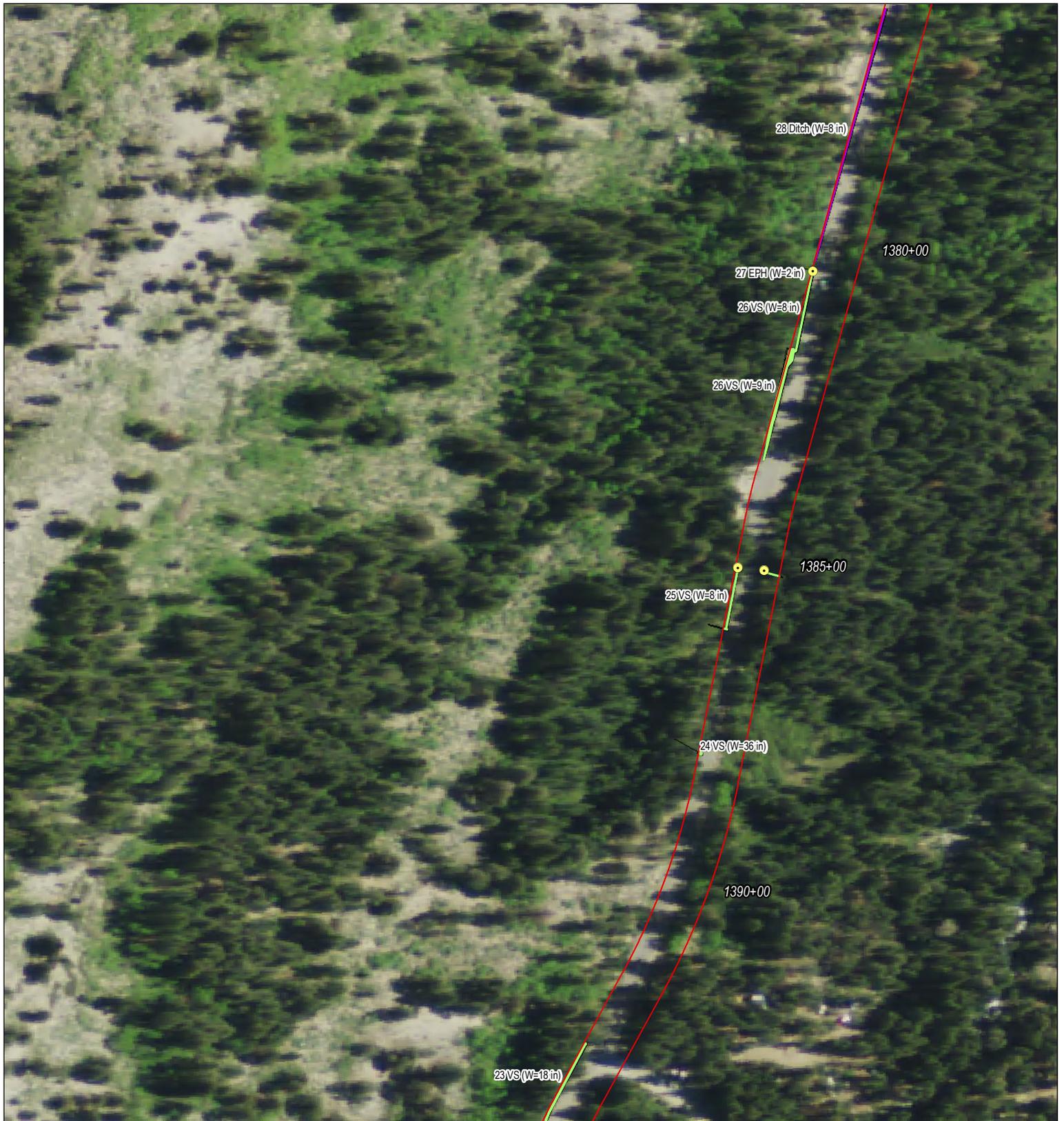
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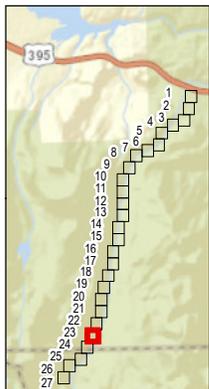
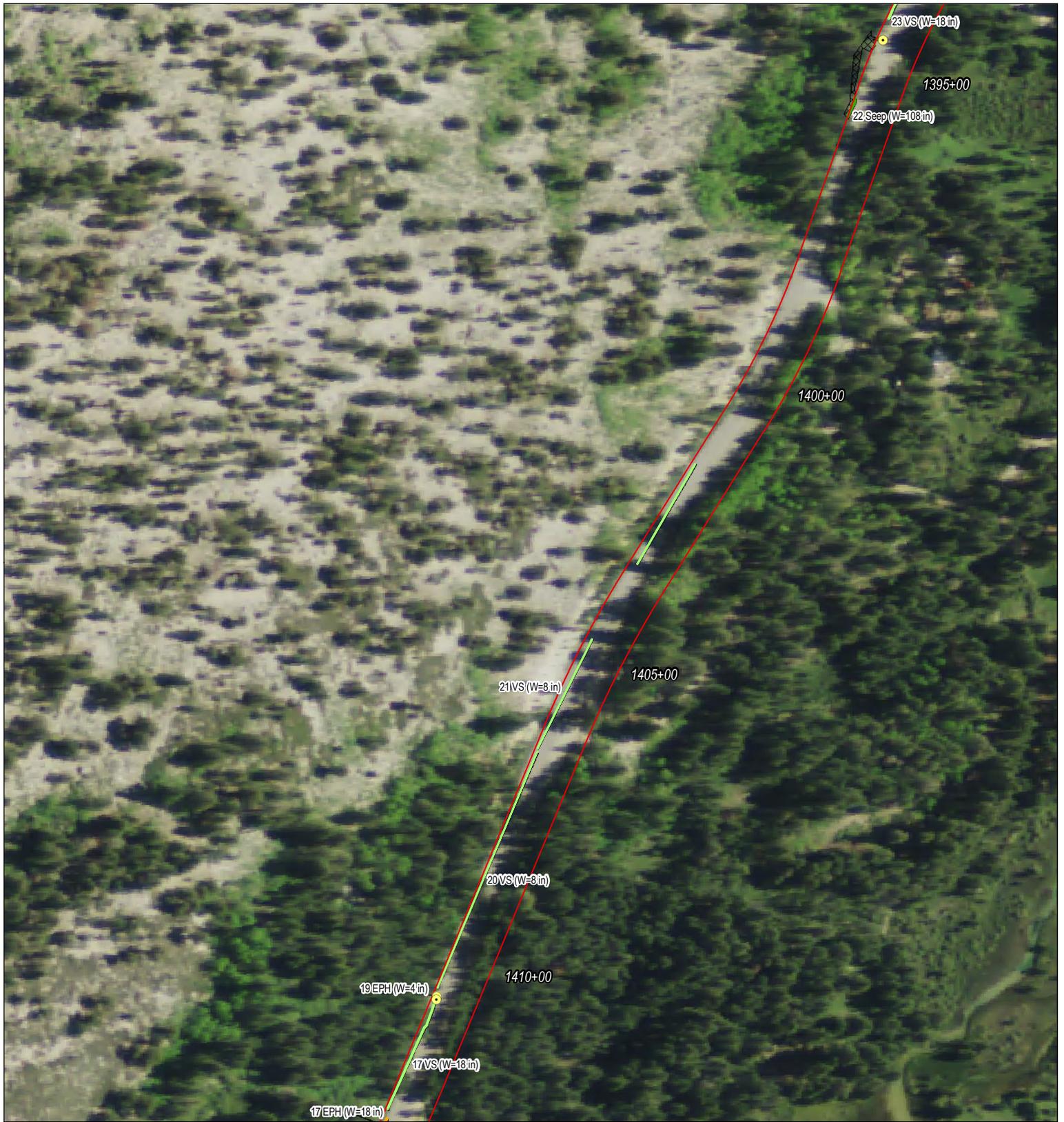
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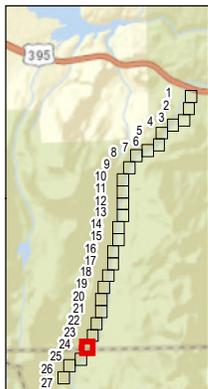
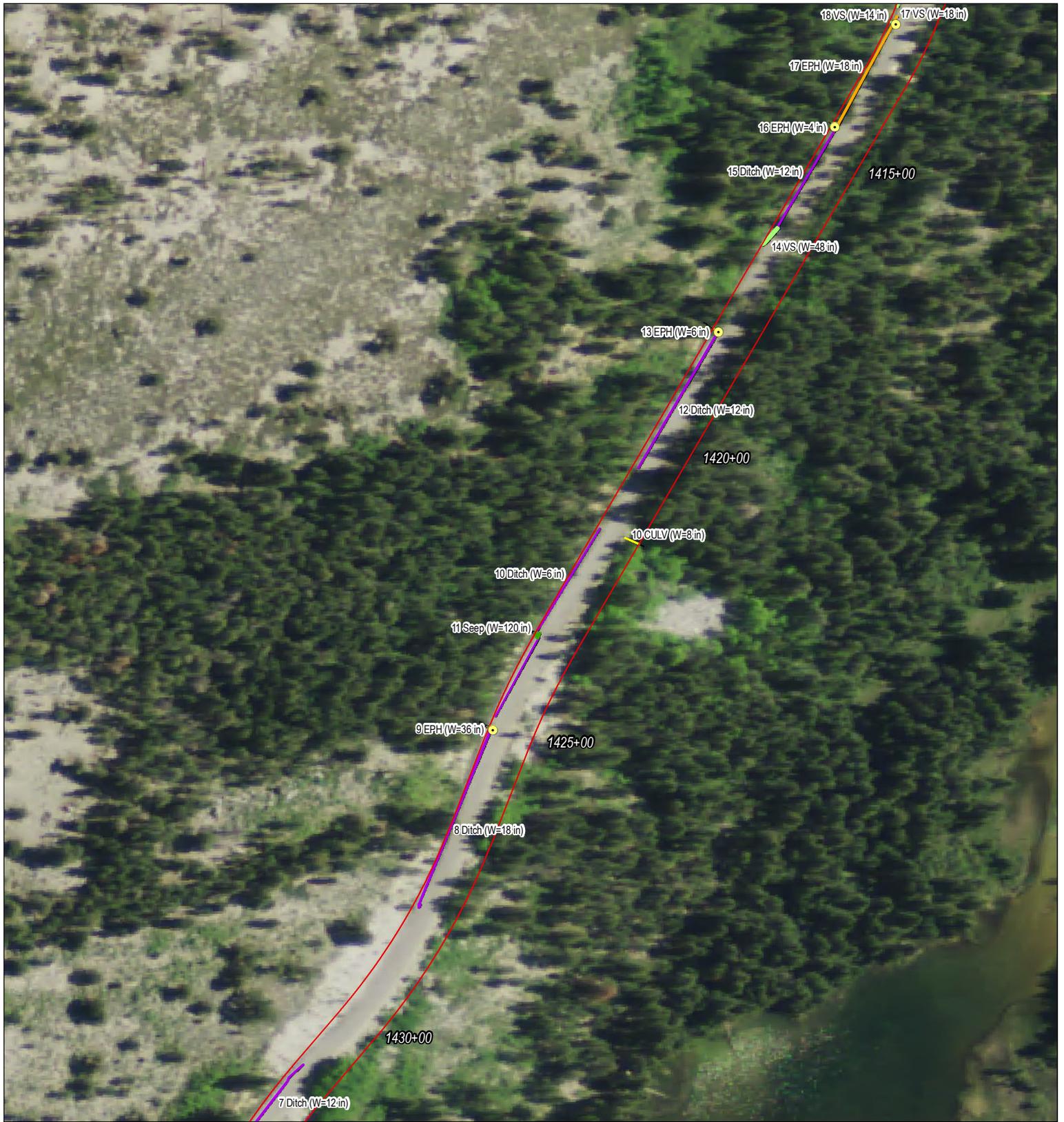
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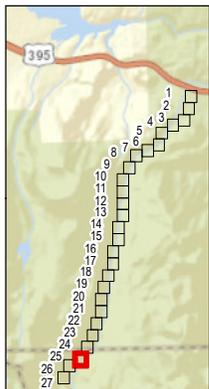
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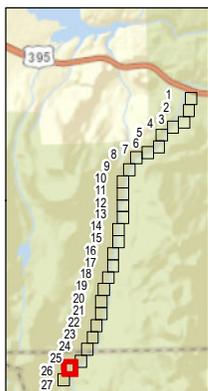
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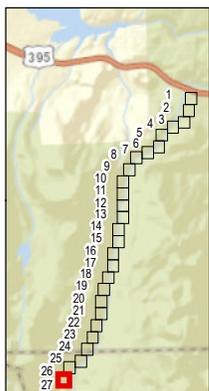
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 Study Area & WUS - Digitized/GPSd Jacobs 2012.

1 inch = 200 feet



Note: During field surveys, the survey area for WUS exceeded the BSA in some areas to ensure there would be no gaps in the data collection for the BSA. The extent of the WUS beyond mapped features is unknown.

Potential WUS within BSA

- | | | |
|------------------------|-----------------------------|----------------------------------|
| Culvert (CULV) | Ephemeral Drainage (EPH) | Culvert |
| Roadside Ditch (Ditch) | Intermittent Drainage (INT) | Data Point |
| Open Water (OW) | Perennial Drainage (PER) | Biological Study Area (BSA) |
| Emergent Wetland (EW) | Seep (Seep) | <u>Potential WUS Outside BSA</u> |
| | Vegetated Swale (VS) | Other Waters |
| | | Wetland |

EPH - Ephemeral Drainage
 EW - Emergent Wetland
 CULV - Culvert (Ephem)
 ditch - Roadside ditch
 INT - Intermittent Drainage
 OW - Open Water
 PER - Perennial Drainage
 Seep - Seep

VS - Vegetated Swale
 #a - Wetland data point
 #b - Upland data point
 #x - Data point - no WUS
 W - Width at OHWM
 (if W=0, then N/A)