

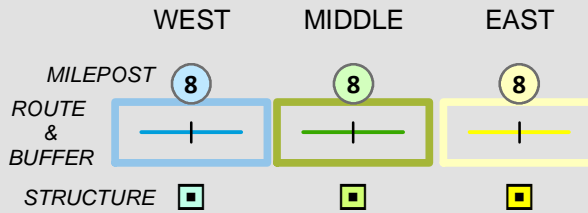
# **Appendix J**

## **Geology and Soils**

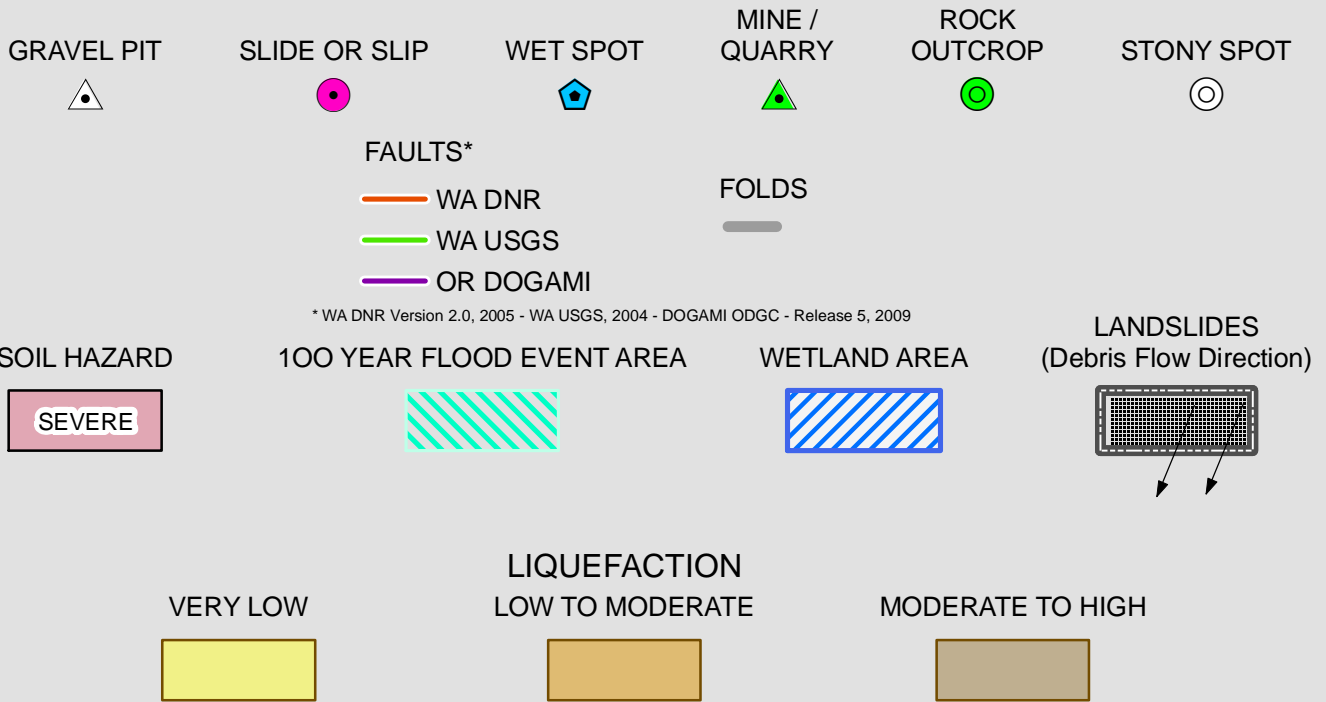
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# LEGEND



## POTENTIAL HAZARDS

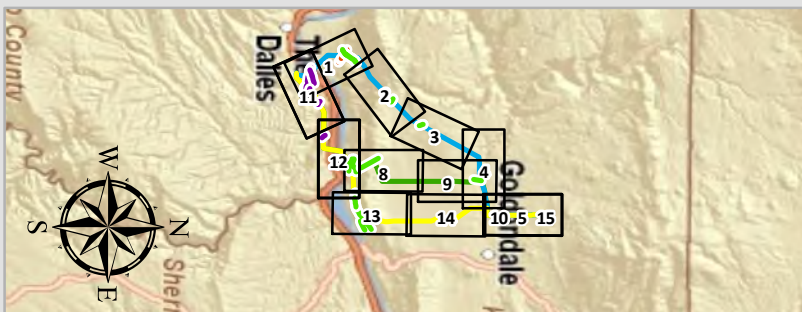


\* WA DNR Version 2.0, 2005 - WA USGS, 2004 - DOGAMI ODGC - Release 5, 2009

## POTENTIAL HAZARD KEY BY MILEPOST

Gray = Not Evaluated On This Sheet Red = Potential Hazard Present Within Corridor White = Potential Hazard Not Observed

	7	6	5	4	3	2	1	0
LANDSLIDES	Gray	Gray	Gray	Gray	Gray	Gray	Gray	Gray
SEVERE EROSION	Gray	Gray	Red	Red	Red	Gray	Gray	Red
LIQUEFACTION	Gray	Red	Red	Red	Red	Red	Red	Red
SOIL / ROCK NOTE	Gray	Gray	Gray	Red	Red	Red	Gray	Gray
FAULT	Gray	Red	Gray	Gray	Red	Red	Gray	Gray
WET/ FL	Gray	Gray	Red	Red	Gray	Gray	Red	Red



Bonneville Power Administration  
Big Eddy - Knight 500 kv  
Transmission Line Project

## POTENTIAL HAZARDS STRIP MAP LEGEND

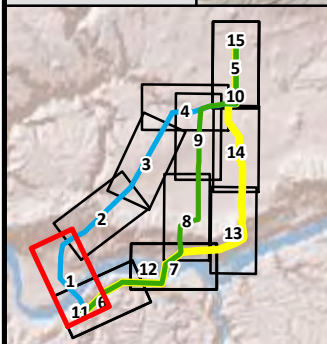
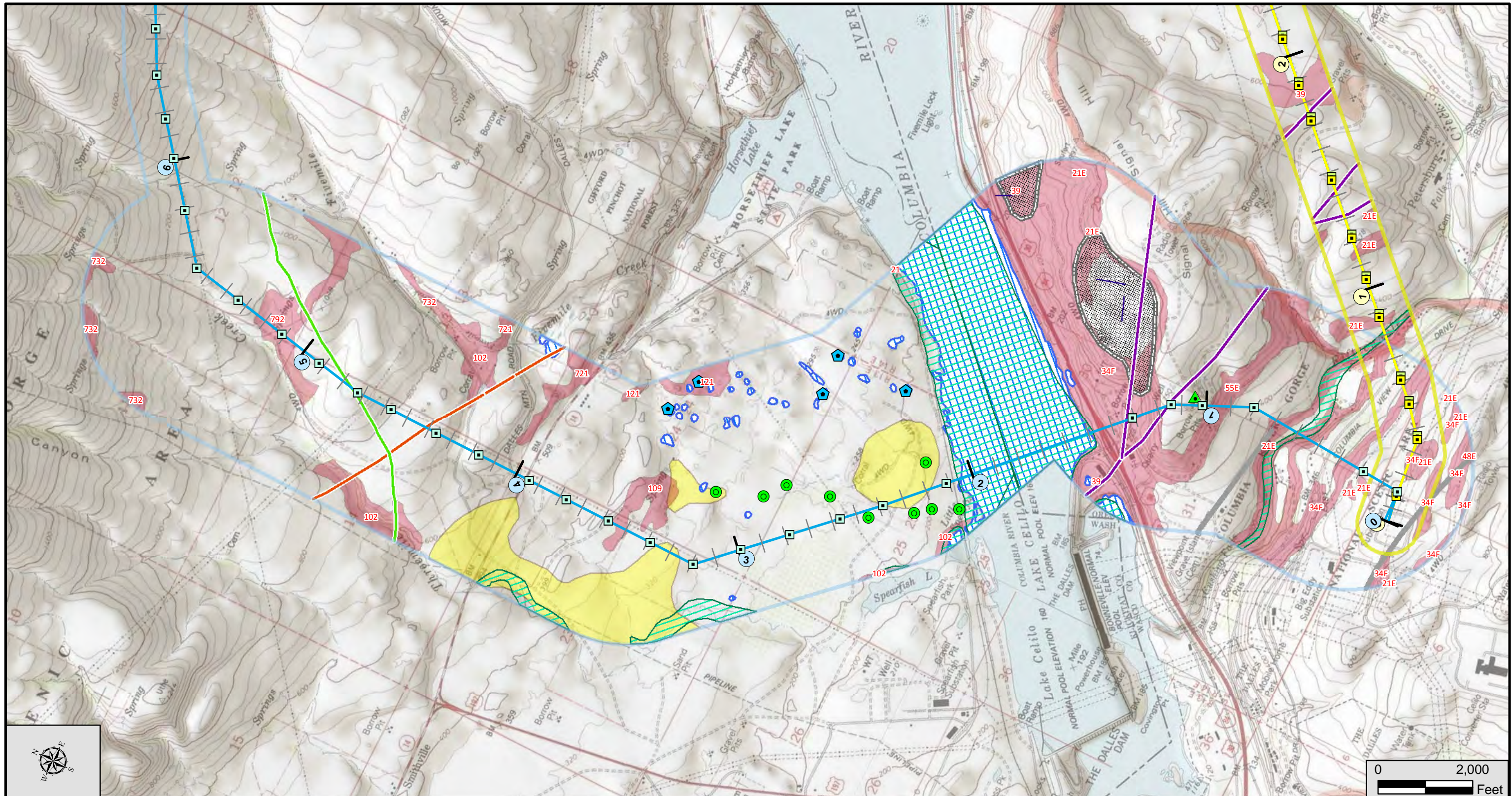
April 2010

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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 6  
LEGEND





	7	6	5	4	3	2	1	0
LANDSLIDES							█	
SEVERE SOIL		█		█		█		
LIQUEFACTION								
SOIL / ROCK NOTE								
FAULT		█	█	█	█	█	█	
WET/ FL				█	█	█		█

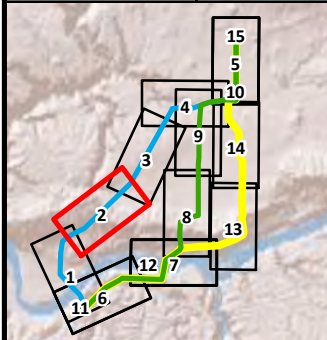
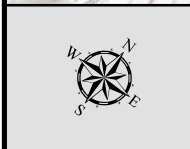
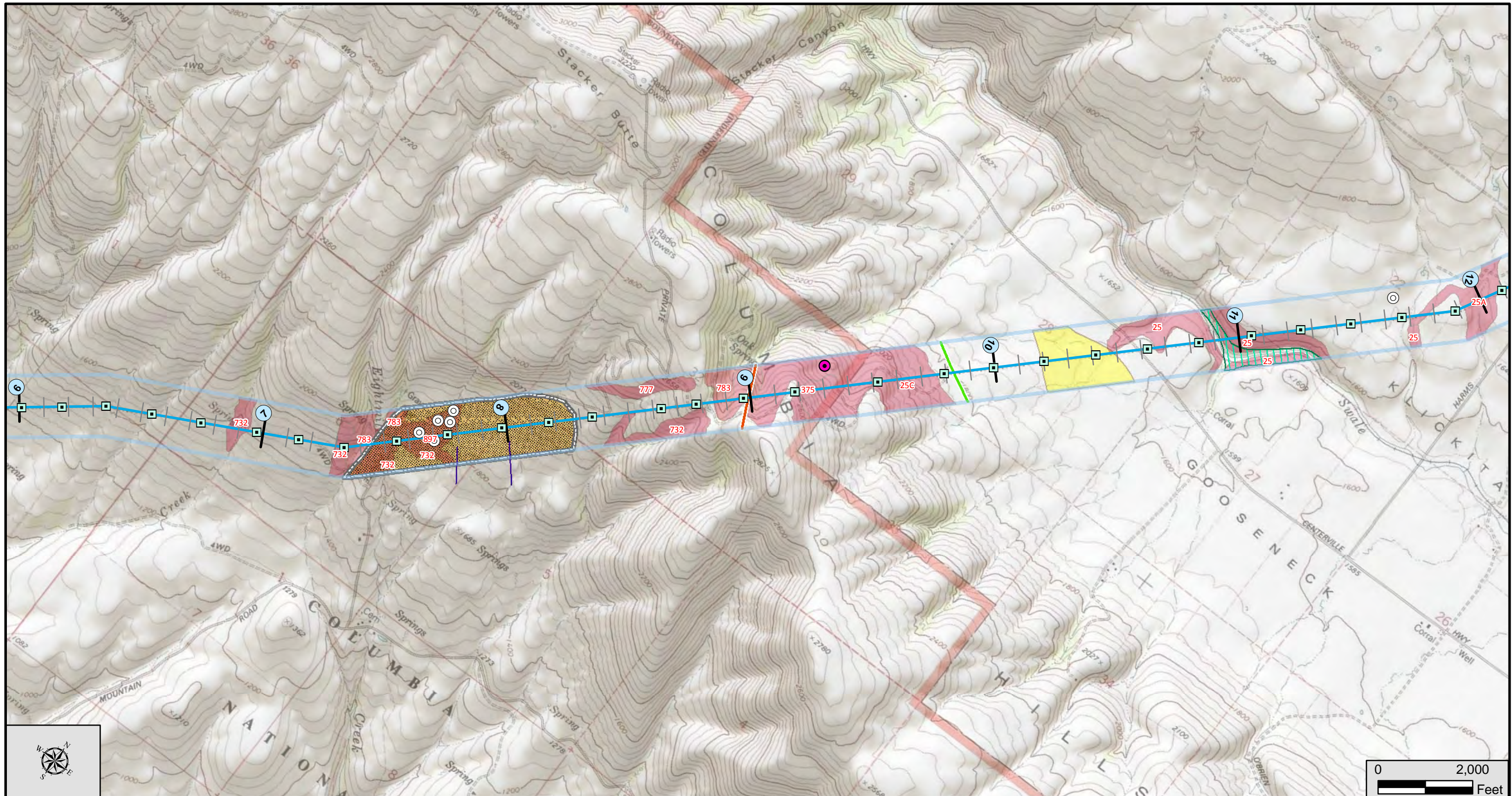
Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**WEST**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
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	6	7	8	9	10	11	12	13
LANDSLIDES			█	█	█	█	█	█
SEVERE SOIL		█	█	█	█	█	█	█
LIQUEFACTION						█	█	█
SOIL / ROCK NOTE			█				█	
FAULT				█	█	█		
WET/ FL						█	█	█

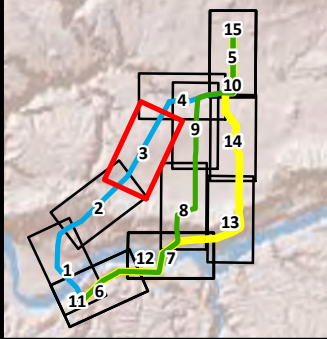
Bonneville Power Administration  
Big Eddy - Knight 500 kv  
Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**WEST**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS Sheet 2 of 15





	11	MILEPOST	12	MILEPOST	13	MILEPOST	14	MILEPOST	15	MILEPOST	16	MILEPOST	17	MILEPOST	18
LANDSLIDES			█												
SEVERE SOIL			█	█	█	█	█	█	█	█	█	█	█	█	
LIQUEFACTION															
SOIL / ROCK NOTE			█			█	█	█							
FAULT					█										
WET/ FL			█						█	█	█				

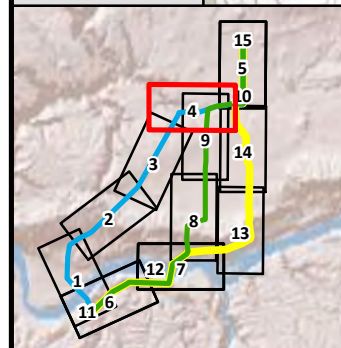
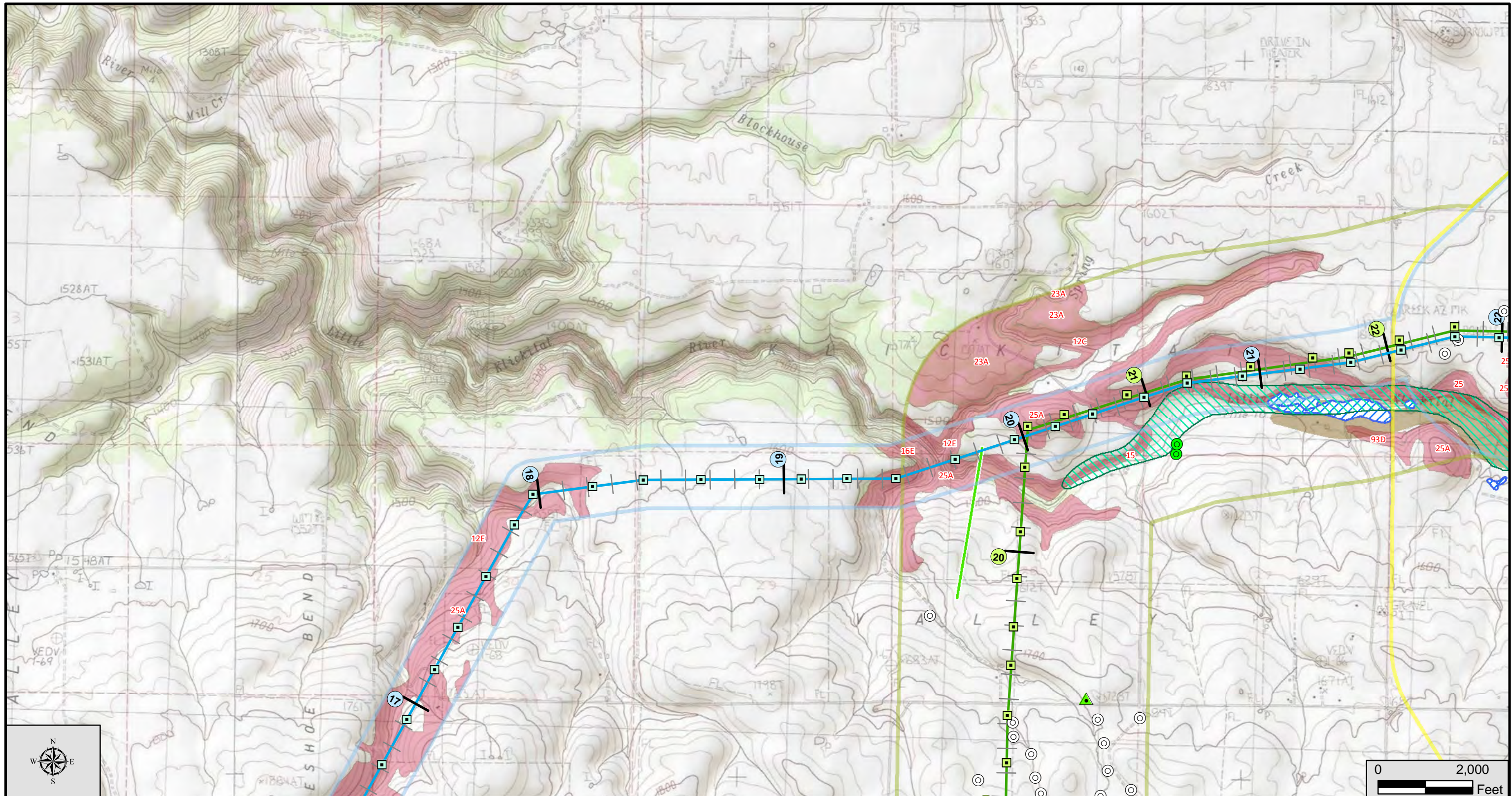
Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**WEST**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
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	16	17	18	19	20	21	22	23
LANDSLIDES								
SEVERE SOIL		█	█	█	█	█	█	█
LIQUEFACTION								
SOIL / ROCK NOTE						█		
FAULT				█	█			
WET/ FL					█	█	█	█

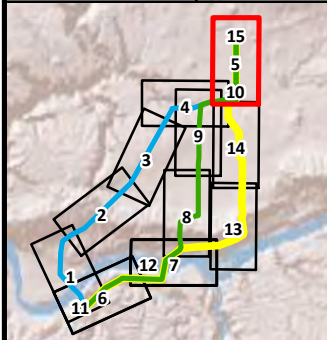
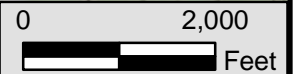
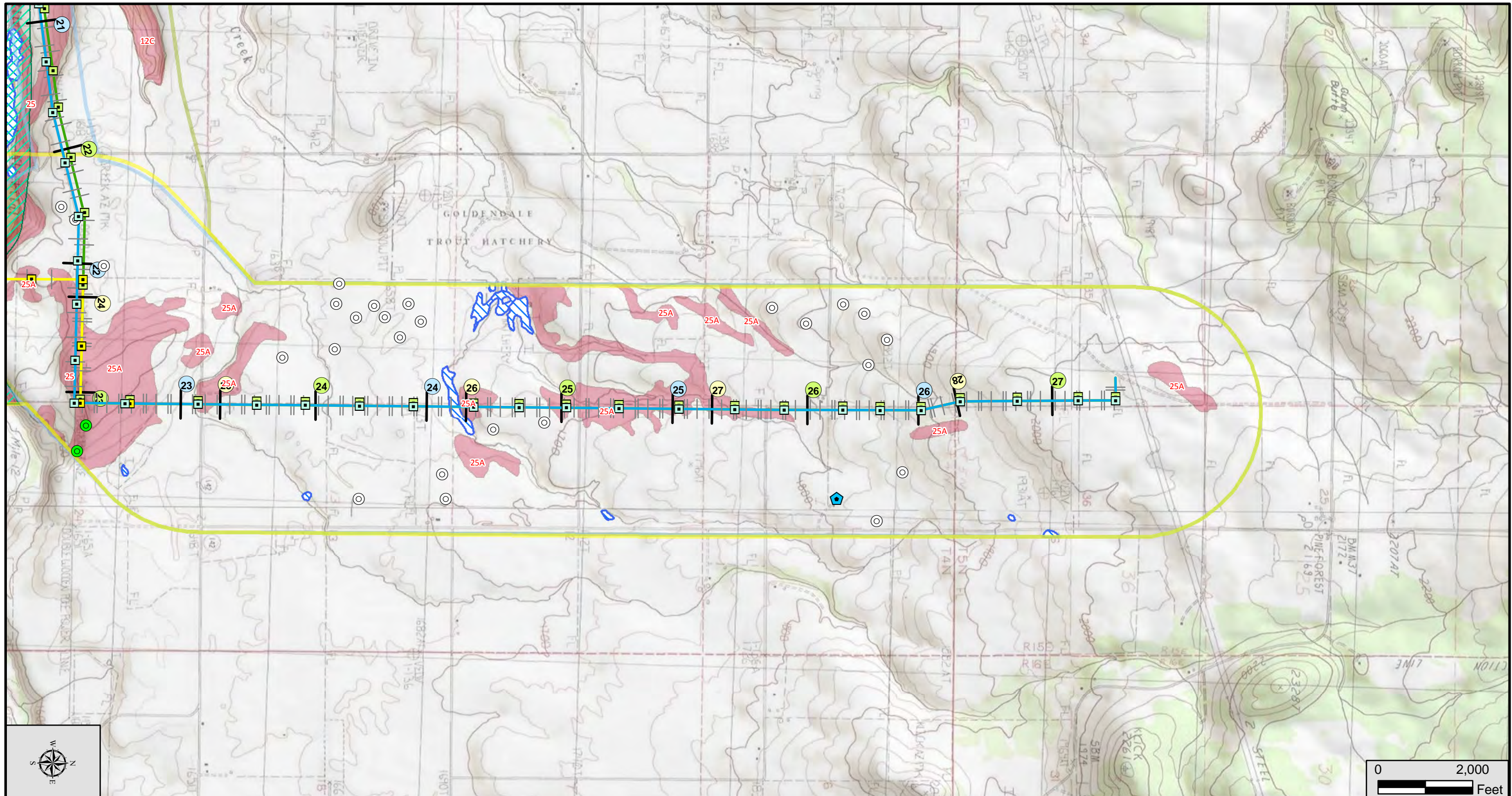
Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**WEST**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
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	21	MILEPOST	22	MILEPOST	23	MILEPOST	24	MILEPOST	25	MILEPOST	26	MILEPOST	27
LANDSLIDES													
SEVERE SOIL													
LIQUEFACTION													
SOIL / ROCK NOTE													
FAULT													
WET/ FL													

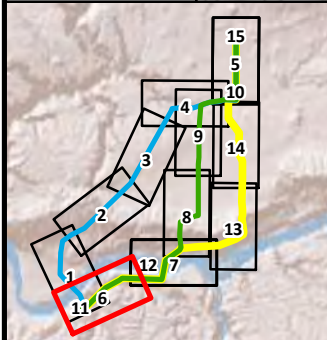
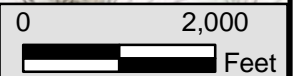
Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**WEST**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS Sheet 5 of 15





	0	1	2	3	4	5	6	7
LANDSLIDES								
SEVERE SOIL	█	█	█	█	█	█	█	█
LIQUEFACTION								
SOIL / ROCK NOTE								
FAULT		█	█	█	█			
WET/ FL		█		█	█	█	█	█

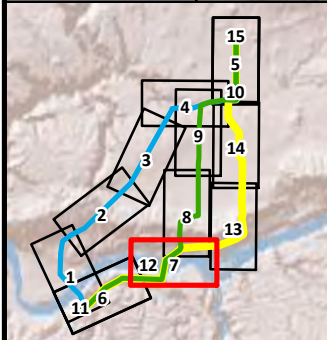
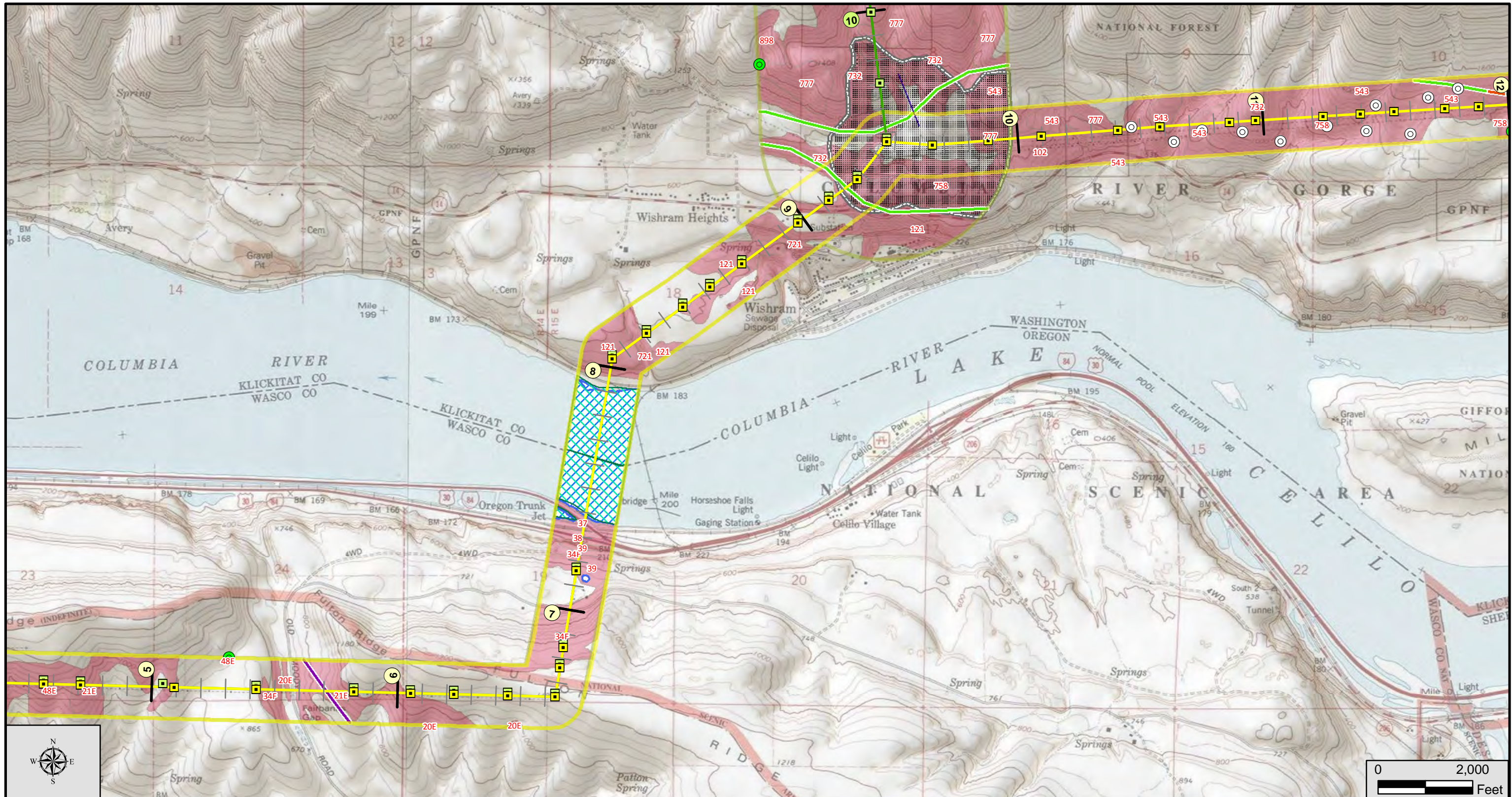
Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**MIDDLE**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS Sheet 6 of 15





	4	5	6	7	8	9	10	11
LANDSLIDES								
SEVERE SOIL								
LIQUEFACTION								
SOIL / ROCK NOTE								
FAULT								
WET/ FL								

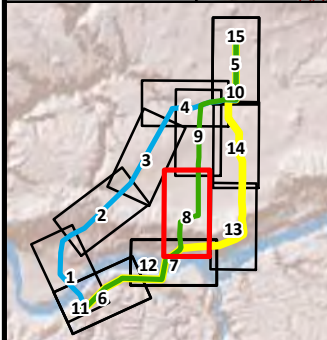
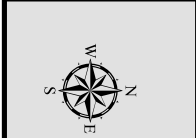
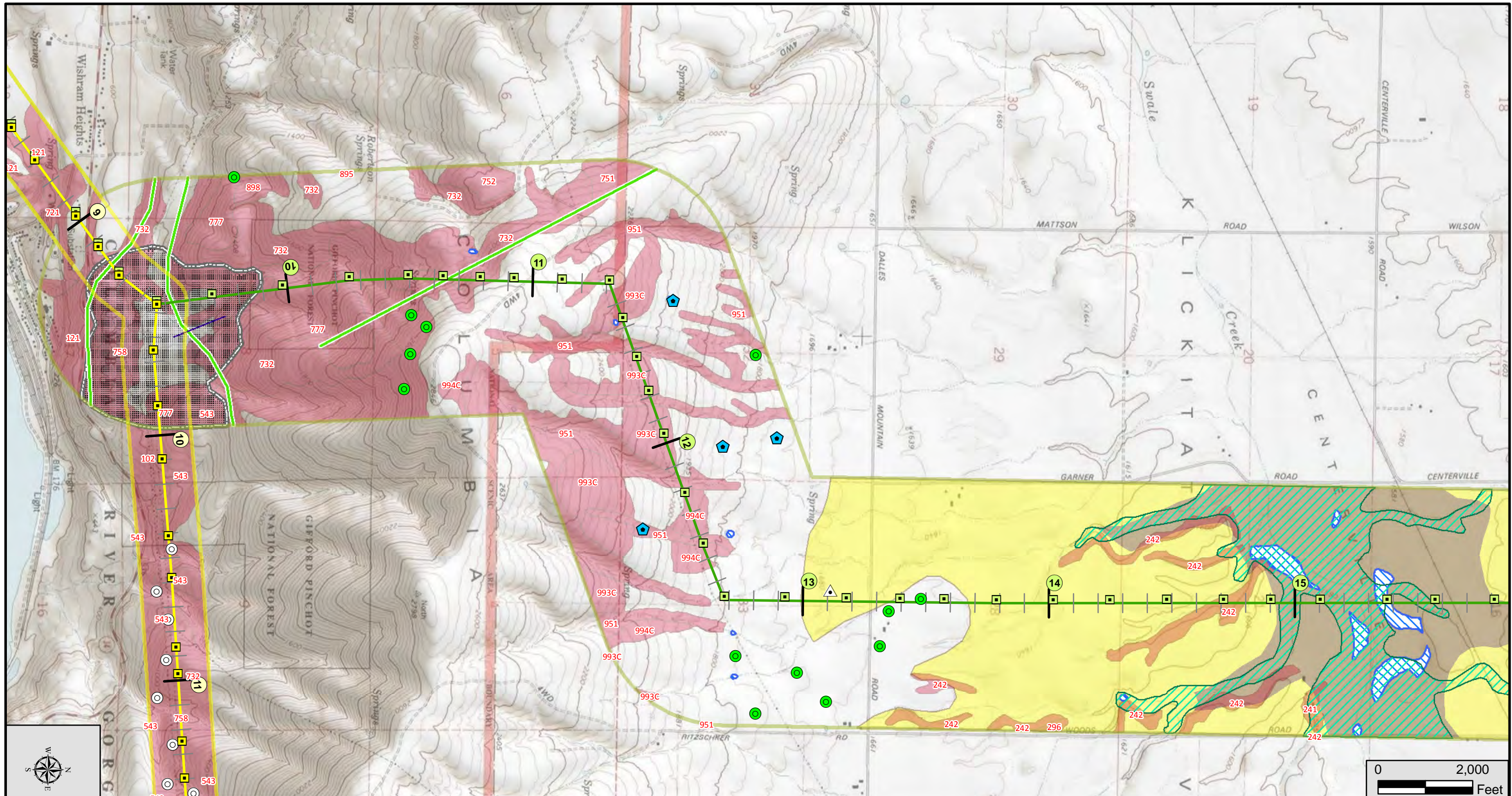
Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**MIDDLE**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS Sheet 7 of 15





	9	10	11	12	13	14	15	16
LANDSLIDES	█	█	█					
SEVERE SOIL	█	█	█	█	█	█	█	
LIQUEFACTION							█	█
SOIL / ROCK NOTE		█	█	█	█	█	█	
FAULT	█	█	█	█	█	█	█	
WET/ FL		█	█	█	█	█	█	

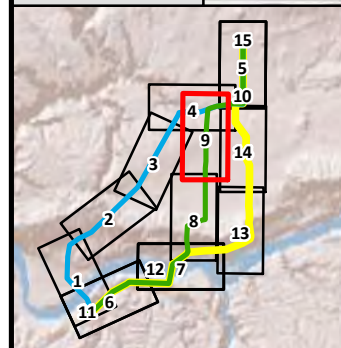
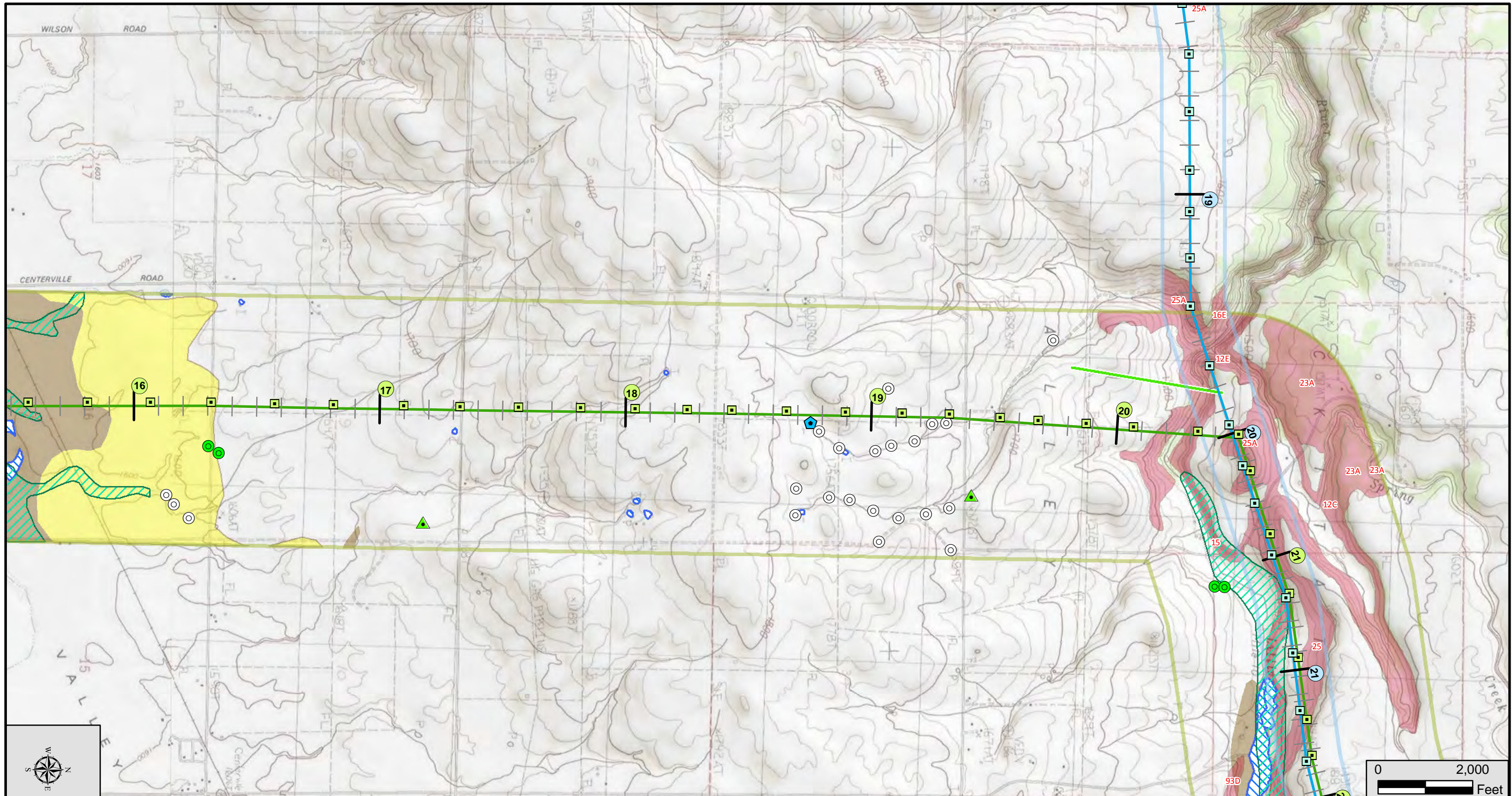
Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP  
 MIDDLE  
 ROUTE**

March 2011 21-1-21287-001

**SHANNON & WILSON, INC.** Map I-5  
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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS





	15	MILEPOST	16	MILEPOST	17	MILEPOST	18	MILEPOST	19	MILEPOST	20	MILEPOST	21	MILEPOST	22
LANDSLIDES															
SEVERE SOIL															
LIQUEFACTION															
SOIL / ROCK NOTE															
FAULT															
WET/ FL															

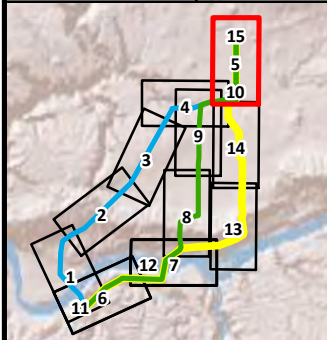
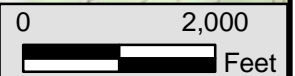
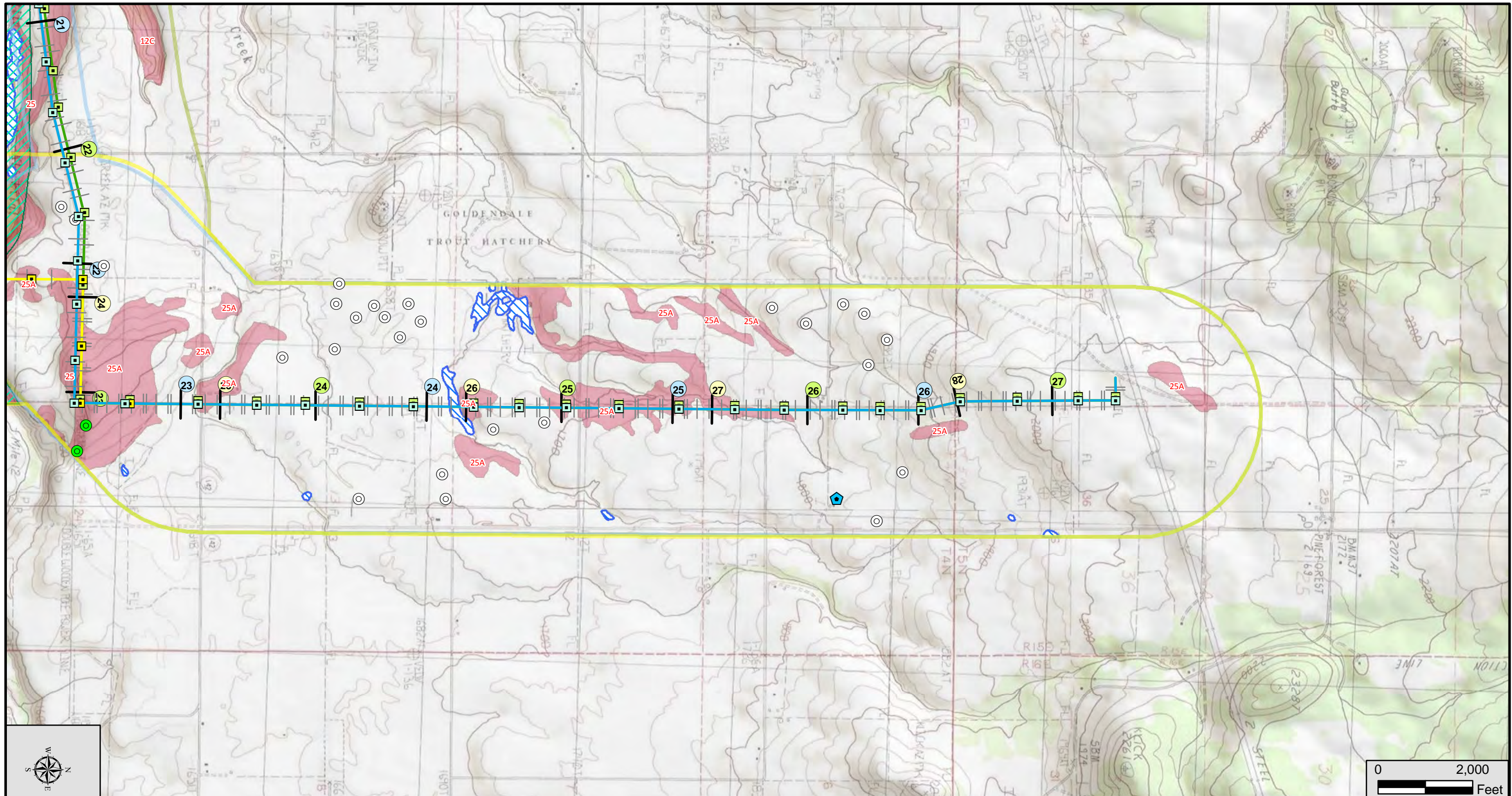
Bonneville Power Administration  
Big Eddy - Knight 500 kv  
Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**MIDDLE**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
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	21	MILEPOST	22	MILEPOST	23	MILEPOST	24	MILEPOST	25	MILEPOST	26	MILEPOST	27	MILEPOST	7
LANDSLIDES															
SEVERE SOIL															
LIQUEFACTION															
SOIL / ROCK NOTE															
FAULT															
WET/ FL															

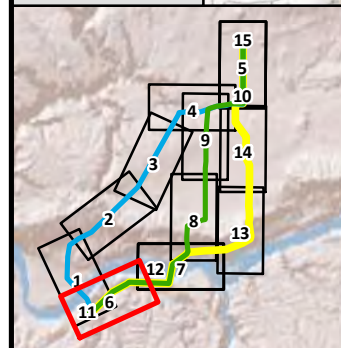
Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**MIDDLE**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS Sheet 10 of 15





	0	1	2	3	4	5	6	7
LANDSLIDES								
SEVERE SOIL	■	■	■	■	■	■	■	■
LIQUEFACTION								
SOIL / ROCK NOTE								
FAULT		■	■	■				
WET/ FL		■		■	■	■	■	■

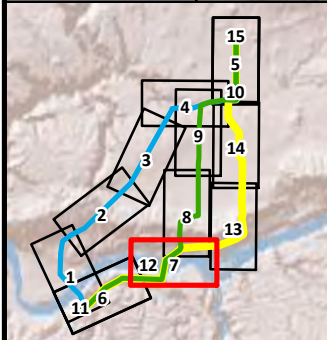
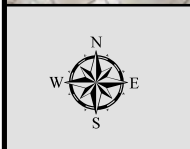
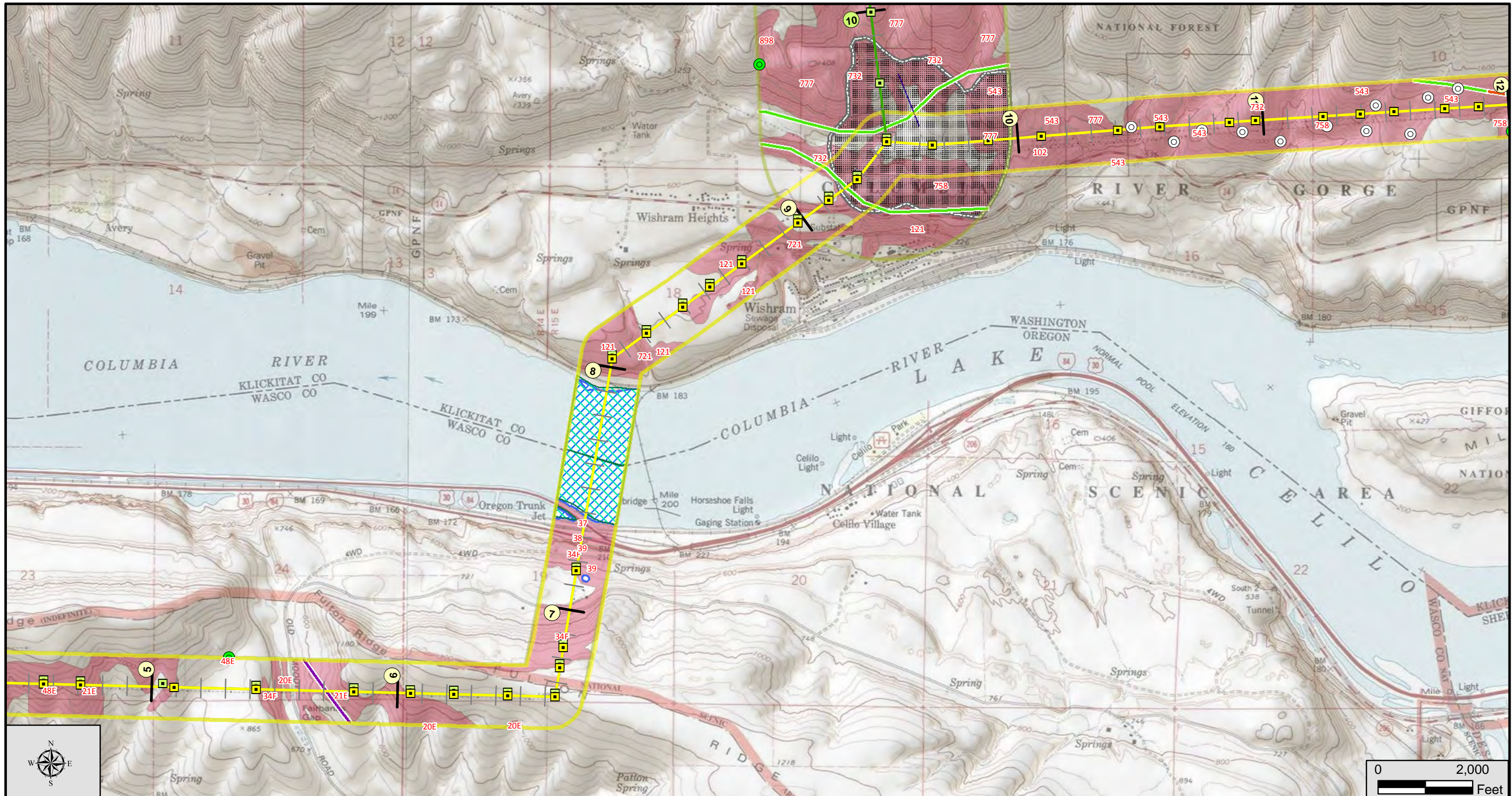
Bonneville Power Administration  
Big Eddy - Knight 500 kv  
Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**EAST**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
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	4	5	6	7	8	9	10	11
LANDSLIDES								
SEVERE SOIL								
LIQUEFACTION								
SOIL / ROCK NOTE								
FAULT								
WET/ FL								

Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

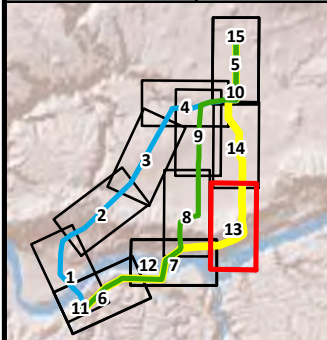
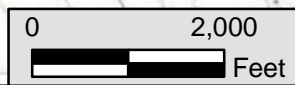
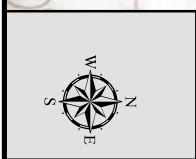
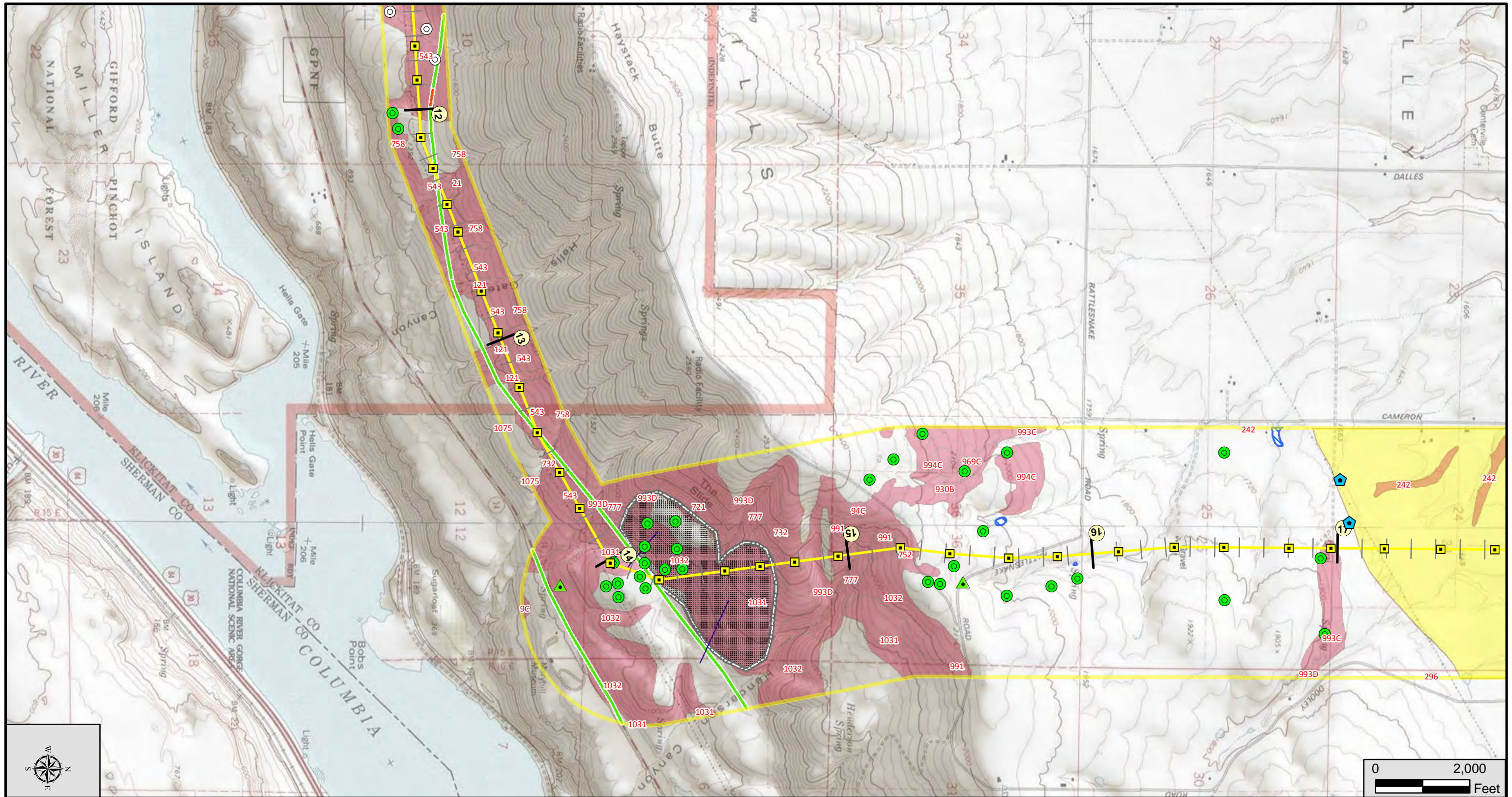
**POTENTIAL HAZARDS STRIP MAP  
 EAST  
 ROUTE**

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**SHANNON & WILSON, INC.**  
 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

**Map I-5**  
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	11	12	13	14	15	16	17	18
LANDSLIDES								
SEVERE SOIL								
LIQUEFACTION								
SOIL / ROCK NOTE								
FAULT								
WET/ FL								

Bonneville Power Administration  
Big Eddy - Knight 500 kv  
Transmission Line Project

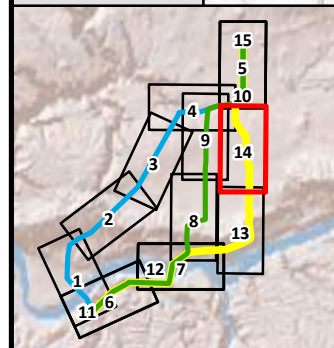
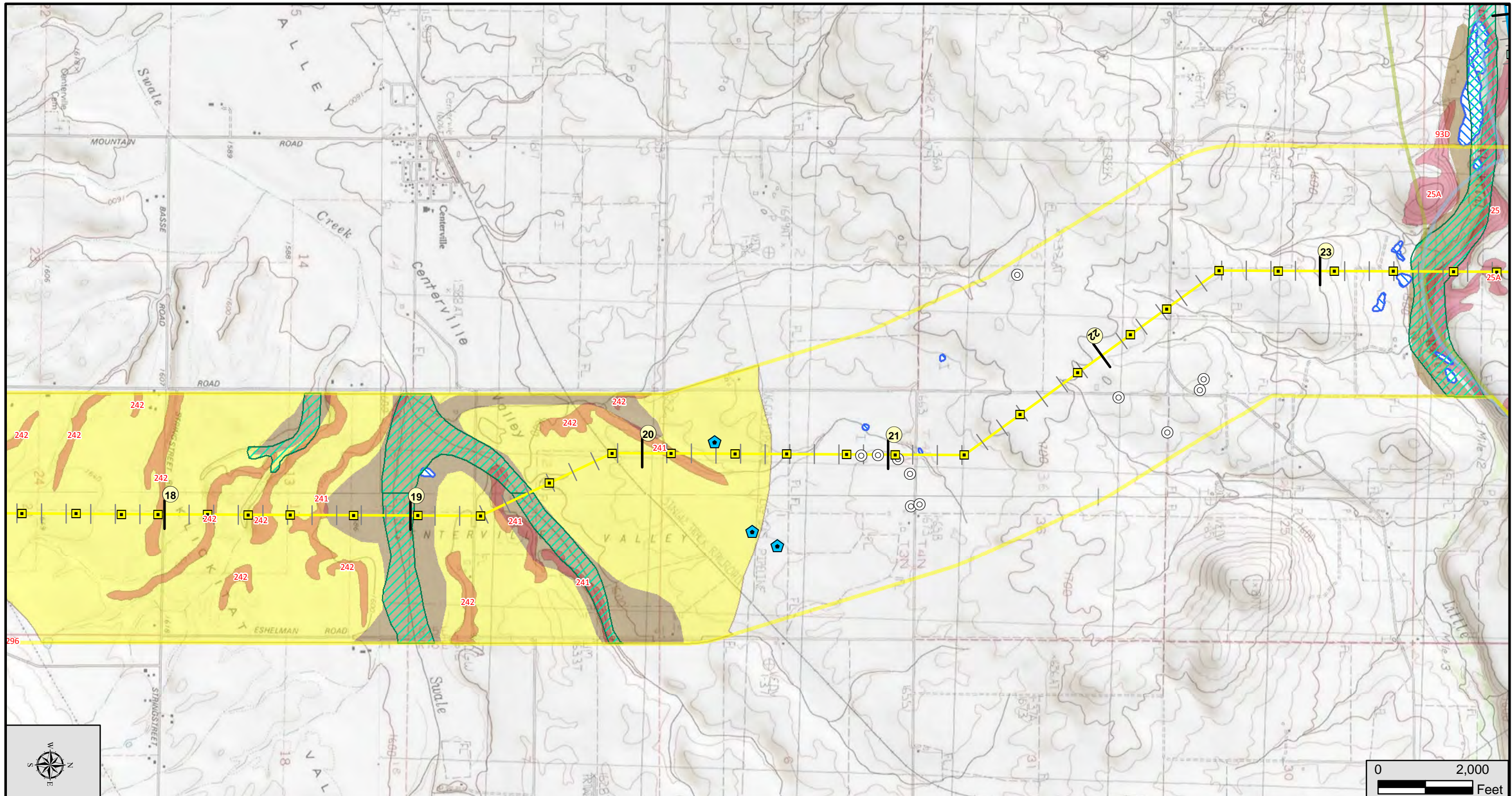
**POTENTIAL HAZARDS STRIP MAP  
EAST  
ROUTE**

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**SHANNON & WILSON, INC.**  
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

**Map I-5**  
Sheet 13 of 15





	17	18	19	20	21	22	23	24
LANDSLIDES								
SEVERE SOIL		█	█	█	█	█	█	
LIQUEFACTION		█	█	█	█	█		
SOIL / ROCK NOTE				█	█	█		
FAULT								
WET/ FL		█	█	█	█	█	█	

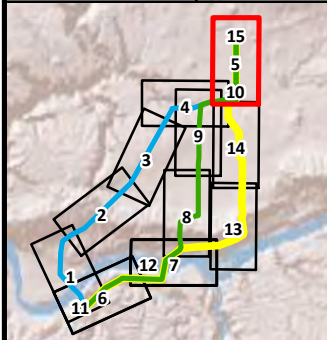
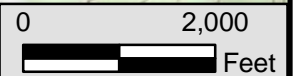
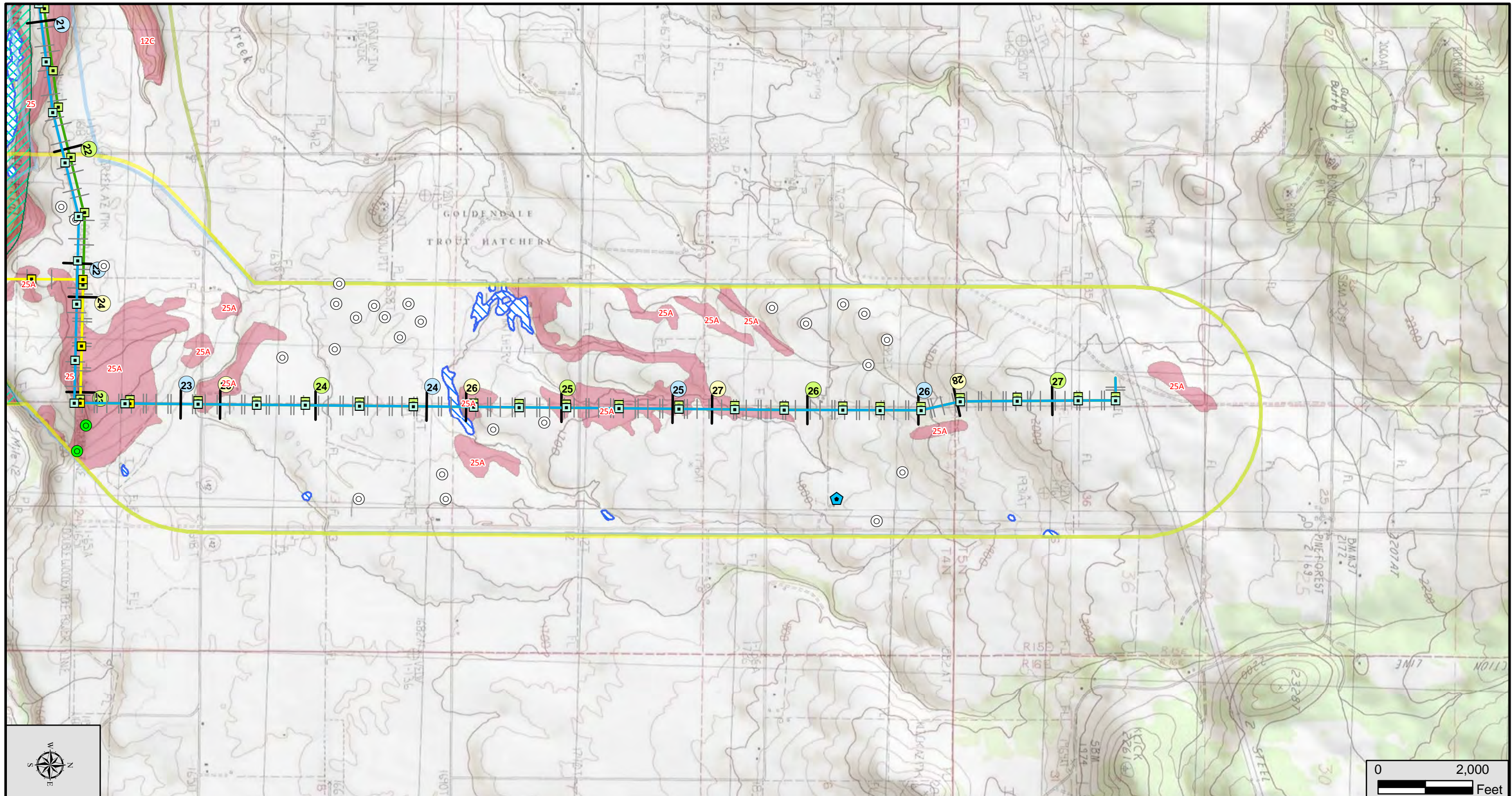
Bonneville Power Administration  
Big Eddy - Knight 500 kv  
Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP  
EAST  
ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS





	23	24	25	26	27	28	29
LANDSLIDES							
SEVERE SOIL		█	█	█	█	█	█
LIQUEFACTION							
SOIL / ROCK NOTE		█	█	█	█	█	
FAULT							
WET/ FL		█	█	█	█	█	

Bonneville Power Administration  
 Big Eddy - Knight 500 kv  
 Transmission Line Project

**POTENTIAL HAZARDS STRIP MAP**  
**EAST**  
**ROUTE**

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**SHANNON & WILSON, INC.** Map I-5  
 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS Sheet 15 of 15