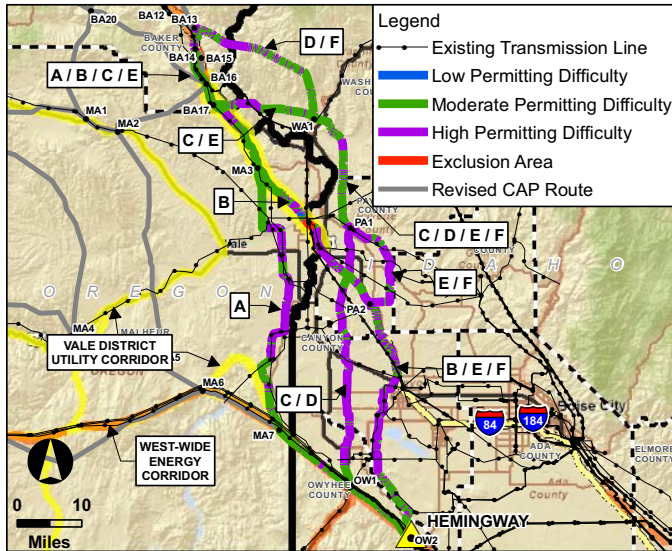
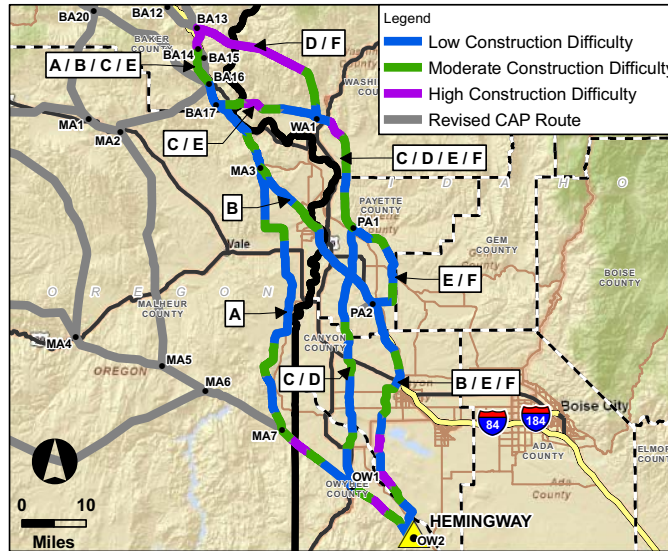


# SOUTH PAT - SNAKE RIVER VALLEY

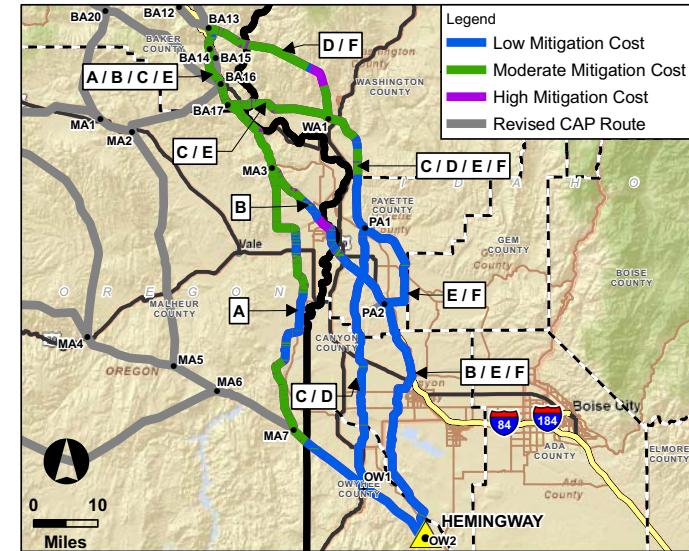
## PERMITTING DIFFICULTY



## CONSTRUCTION DIFFICULTY



## MITIGATION COST



### - 6 ROUTES WERE CONSIDERED:

- A (BA13-BA14-BA16-BA17-MA3-MA7-OW1-OW2),
- B (BA13-BA14-BA16-BA17-MA3-PA2-OW2),
- C (BA13-BA14-BA16-BA17-WA1-PA1-OW1-OW2),
- D (BA13-WA1-PA1-OW1-OW2),
- E (BA13-BA14-BA16-BA17-WA1-PA1-PA2-OW2), AND
- F (BA13-WA1-PA1-PA2-OW2)

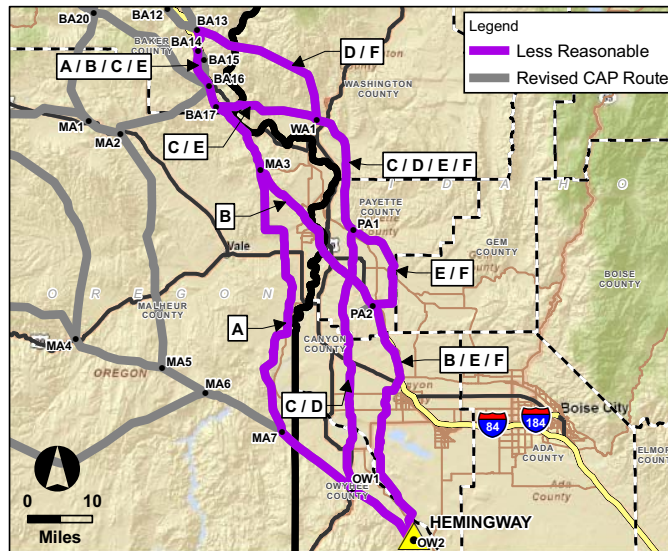
- ROUTE A IS NOT REASONABLE BECAUSE CROSSING EFU LAND WILL NOT PASS ORS 215.275 SIX FACTOR ALTERNATIVES ANALYSIS

- ROUTE B IS NOT REASONABLE DUE TO CONSTRUCTION AND ENGINEERING ISSUES THROUGH CITY OF ONTARIO

- ROUTE D IS MORE REASONABLE THAN ROUTE C BECAUSE IT CROSSES LESS 1200FT HISTORIC TRAIL BUFFER, LESS ELK/DEER WINTER RANGE, LESS EFU, LESS PRIVATE LAND, AND LESS SAGE-GROUSE CORE AREA HABITAT

- ROUTE F IS MORE REASONABLE THAN ROUTE E FOR THE SAME REASONS STATED ABOVE

## SUMMARY



### - ROUTE D IS MORE REASONABLE THAN ROUTE F BECAUSE IT:

- 5.2 miles shorter/157 fewer acres of ROW
- Crosses 1.8 fewer miles of 1200ft Nationally Designated Scenic Byway
- Crosses 0.7 fewer miles of 1200ft Historic Trail Buffer Zone
- Crosses 6.1 fewer miles of VRM Class II
- Crosses 4.3 fewer miles of Irrigated Agriculture
- Crosses 21.4 fewer miles of Private Land

**AFTER THIS ANALYSIS IT WAS AGREED THAT ALL THESE ALTERNATIVES WOULD BE EXTREMELY DIFFICULT TO PERMIT BECAUSE OF THE FOLLOWING:**

- Extensive Irrigated Agriculture and Prime Farmland Soils Crossed
- Impact on City Impact/Urban Growth Areas and Existing Urban Areas
- Extensive impact on Residential Development
- Snake River Scenic Byway Crossed

### SNAKE RIVER VALLEY MILEAGE SUMMARY

	A (BA13-BA14- BA16-BA17-MA3- MA7-OW1-OW2)	B (BA13-BA14- BA16-BA17-MA3- PA2-OW2)	C (BA13-BA14- BA16-BA17-WA1- PA1-OW1-OW2)	D (BA13-WA1- PA1-OW1- OW2)	E (BA13-BA14- BA16-BA17-WA1- PA1-PA2-OW2)	F (BA13-WA1- PA1-PA2- OW2)
	<b>LENGTH IN MILES</b>					
<b>PERMITTING DIFFICULTY</b>						
LOW	0	0.6	0.1	0.1	0.3	0.3
MODERATE	67.9	45.5	55	48.6	51.7	45.3
HIGH	31.6	48	49.3	52.2	57.5	60.5
EXCLUSION	0	2.2	0	0	0	0
<b>CONSTRUCTION DIFFICULTY</b>						
LOW	54.9	57.9	52.5	43.6	52	43
MODERATE	35	28.8	39	33	42	36
HIGH	9.6	9.6	12.9	24.2	15.6	27
<b>MITIGATION COST</b>						
LOW	40.6	60.3	65.7	66	71	71.2
MODERATE	59	33.8	38.5	31.1	38.5	31.1
HIGH	0	2.2	0.1	3.8	0.1	3.8

**SNAKE RIVER VALLEY DATA TABLE**

Resource Group	Regulatory Criteria Description	Permitting Difficulty	Community Criteria*	A	B	C	D	E	F
				(BA13-BA14-BA16-BA17-MA3-MA7-OW1-OW2)	(BA13-BA14-BA16-BA17-MA3-PA2-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-OW1-OW2)	(BA13-WA1-PA1-OW1-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-PA2-OW2)	(BA13-WA1-PA1-PA2-OW2)
				LENGTH IN MILES					
TOTAL LENGTH				99.6	96.3	104.3	100.8	109.5	106
1	Cultural Resources	Within 500ft of Cemetery	Avoidance Mod	0.2	-	-	-	-	-
2	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod	4.5	5.9	2.1	1.0	3.1	1.9
3	Cultural Resources	Within .5mi National Register Historic Place Buffer	Avoidance High	0.8	-	-	-	-	-
4	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High	2.3	2.3	-	-	-	-
5	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	0.5	3.0	1.2	1.2	3.0
6	Visual Resources	BLM Visual Resource Management Class 2	Avoidance High	-	-	7.2	8.0	13.3	14.1
7	Visual Resources	BLM Visual Resource Management Class 3	Avoidance Mod	3.3	29.0	15.3	25.9	24.9	35.5
8	Visual Resources	BLM Visual Resource Management Class 4	Avoidance Low	31.0	27.4	64.9	62.9	54.4	52.4
9	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low	3.0	1.5	1.5	-	1.5	-
10	Fish and Wildlife	IDFG Focal Area	Avoidance Low	11.0	2.6	42.8	51.4	40.5	49.1
11	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	58.3	32.3	16.5	4.0	16.5
12	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	25.7	25.6	11.3	4.2	11.3
13	Fish and Wildlife	IDFG Big Game Crucial Winter Range	Avoidance Mod	CC	-	-	19.9	18.9	19.9
14	Fish and Wildlife	Pronghorn Antelope Habitat (Boise District, ID)	Avoidance Mod	CC	23.8	3.1	22.7	22.7	3.1
15	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod	CC	9.8	6.5	3.1	-	3.1
16	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low	CC	36.9	19.8	9.9	5.1	9.9
17	Fish and Wildlife	Sage-grouse Key Habitat Area (ID BLM)	Avoidance Mod	CC	-	-	4.4	10.9	4.4
18	Fish and Wildlife	Sage-grouse Restoration Habitat Type 1: Perennial Grasslands (ID BLM)	Avoidance Low	CC	-	-	1.5	2.5	1.5
19	Fish and Wildlife	Sage-grouse Restoration Habitat Type 2: Annual Grass Understories (ID BLM)	Avoidance Low	-	-	12.0	12.8	12.0	12.8
20	Fish and Wildlife	Within 2-mile Idaho Sage-grouse Lek Buffer (Unknown)	Exclusion	-	2.2	-	-	-	-
21	Fish and Wildlife	Within 300ft Special Status Stream: Bull Trout	Avoidance Mod	CC	-	-	0.1	0.1	0.1
22	Land Use	Cropland/Irrigated Agriculture	Avoidance High	23.6	36.8	29.5	28.4	33.8	32.7
23	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High	37.4	21.2	16.9	6.6	16.9	6.6
24	Land Use	Grazing Allotment - ID	Avoidance Low	20.1	10.5	41.8	49.2	28.2	35.6
25	Land Use	Grazing/Pasture - OR	Avoidance Low	29.5	22.2	11.7	6.4	11.7	6.4
26	Land Use	City Impact Area - Idaho	Avoidance High	-	3.9	9.7	9.7	2.6	2.6
27	Land Use	Urban Growth Boundary - Oregon	Avoidance High	CC	-	2.3	-	-	-
28	Land Use	Urban Area	Avoidance High	CC	-	1.7	-	-	-
29	Land Use	Forested Land: Private	Avoidance Mod	-	-	-	0.1	-	0.1
30	Land Use	Forested Land: Public	Avoidance Mod	-	-	-	-	-	-
31	Land Use	Area of Critical Environmental Concern	Avoidance High	-	3.4	7.3	7.3	4.4	4.4
32	Land Use	Vale District Off-Highway Vehicle: Limited to Existing Routes	Avoidance Low	15.8	4.2	-	-	-	-
33	Land Use	Oregon State Park	Exclusion	-	0.3	-	-	-	-
34	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod	38.8	21.0	34.8	30.0	28.5	23.8
35	Ownership	Bureau of Land Management - OR	Avoidance Low	CC	15.2	7.5	4.0	4.8	4.0
36	Ownership	Bureau of Land Management - ID	Avoidance Low	CC	16.9	8.8	27.0	28.4	14.0
37	Ownership	Bureau of Land Management Total		32.1	16.3	31.0	33.2	18.1	20.2
38	Ownership	Bureau of Reclamation - OR	Avoidance Low	CC	-	0.3	-	-	-
39	Ownership	Bureau of Reclamation - ID	Avoidance Low	CC	0.1	0.1	0.2	0.2	0.1
40	Ownership	Bureau of Reclamation Total		0.1	0.5	0.2	0.2	0.1	0.1
41	Ownership	Private - OR	Avoidance Low	CC	60.5	34.7	12.8	1.7	12.8
42	Ownership	Private - ID	Avoidance Low	CC	3.8	43.3	59.6	65.0	76.1
43	Ownership	Private Land Total		64.3	78.0	72.4	66.7	88.9	83.1
44	Ownership	Other Federal Land	Avoidance Low	CC	-	-	-	-	-
45	Ownership	State Land - ID	Avoidance Low	CC	3.0	0.6	0.6	0.6	2.0
46	Ownership	Water	Avoidance High	-	-	-	-	-	-
47	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	12.9	31.7	35.5	30.7	41.1	36.3
48	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	22.8	30.2	33.4	31.4	39.0	37.0

**SNAKE RIVER VALLEY DATA TABLE**

Resource Group	Regulatory Criteria Description	Permitting Difficulty	Community Criteria*	A	B	C	D	E	F	
				(BA13-BA14-BA16-BA17-MA3-MA7-OW1-OW2)	(BA13-BA14-BA16-BA17-MA3-PA2-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-OW1-OW2)	(BA13-WA1-PA1-OW1-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-PA2-OW2)	(BA13-WA1-PA1-PA2-OW2)	
<b>TOTAL LENGTH</b>				<b>99.6</b>	<b>96.3</b>	<b>104.3</b>	<b>100.8</b>	<b>109.5</b>	<b>106</b>	
49	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low	22.7	13.3	34.2	36.8	28.0	30.5	
50	Geological Resources	Idaho Landslide Susceptibility: Moderate	Avoidance Mod	-	8.0	-	-	8.0	8.0	
51	Geological Resources	Idaho Landslide Susceptibility: Low	Avoidance Low	23.8	45.1	87.5	94.3	84.7	91.5	
52	Geological Resources	Within 500ft of Fault Line	Avoidance Low	2.2	0.5	2.1	1.5	1.4	0.9	
53	Geological Resources	U.S. Geological Survey Active Mining Area	Avoidance High	0.2	0.1	0.1	0.1	0.1	0.1	
54	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	34.5	55.8	55.5	47.1	62.8	54.5
55	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod	0.7	0.7	0.7	0.7	0.7	0.7	
56	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	Avoidance Mod	-	-	-	0.6	-	0.6	
57	Slope	Slope 0-15%	Opportunity	71.7	75.1	72.2	65.3	76.0	69.1	
58	Slope	Slope 15-25%	Avoidance Low	17.0	11.8	17.7	15.1	17.3	14.7	
59	Slope	Slope 25-35%	Avoidance Mod	6.6	5.2	8.0	10.9	8.8	11.7	
60	Slope	Slope >35%	Avoidance High	4.3	4.2	6.5	9.6	7.5	10.6	
61	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low	-	16.1	47.3	54.1	53.8	60.6	
62	Water and Wetlands	Floodplain: Zone A	Avoidance Mod	-	0.4	2.0	2.0	2.3	2.3	
63	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.7	2.9	1.3	1.3	1.4	1.4
64	Water and Wetlands	Snake River	Avoidance High	-	0.9	0.4	0.5	0.3	0.4	
65	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	1.2	2.8	1.2	0.3	1.2	0.3
66	Other Features	Vale District Utility Corridor	Opportunity	24.7	35.5	7.5	-	7.5	-	
67	Other Features	West-wide Energy Corridor	Opportunity	CC	16.2	6.1	10.5	7.9	2.6	-
68	Other Features	Parallel to Existing Transmission Line	Opportunity	50.4	33.3	25.0	14.8	34.0	23.8	

\* Rows designated with "CC" indicate Community Criteria. These are the criteria the Project Advisory Teams wanted considered in the analysis.