

ROUTE ANALYSIS PROCESS

Progress to Date:

1. Recorded and labeled all routes received from PAT Meetings.
2. Determined opportunity, avoidance and exclusion areas crossed by PAT proposed routes.
3. Routes revised to avoid exclusion and avoidance areas.

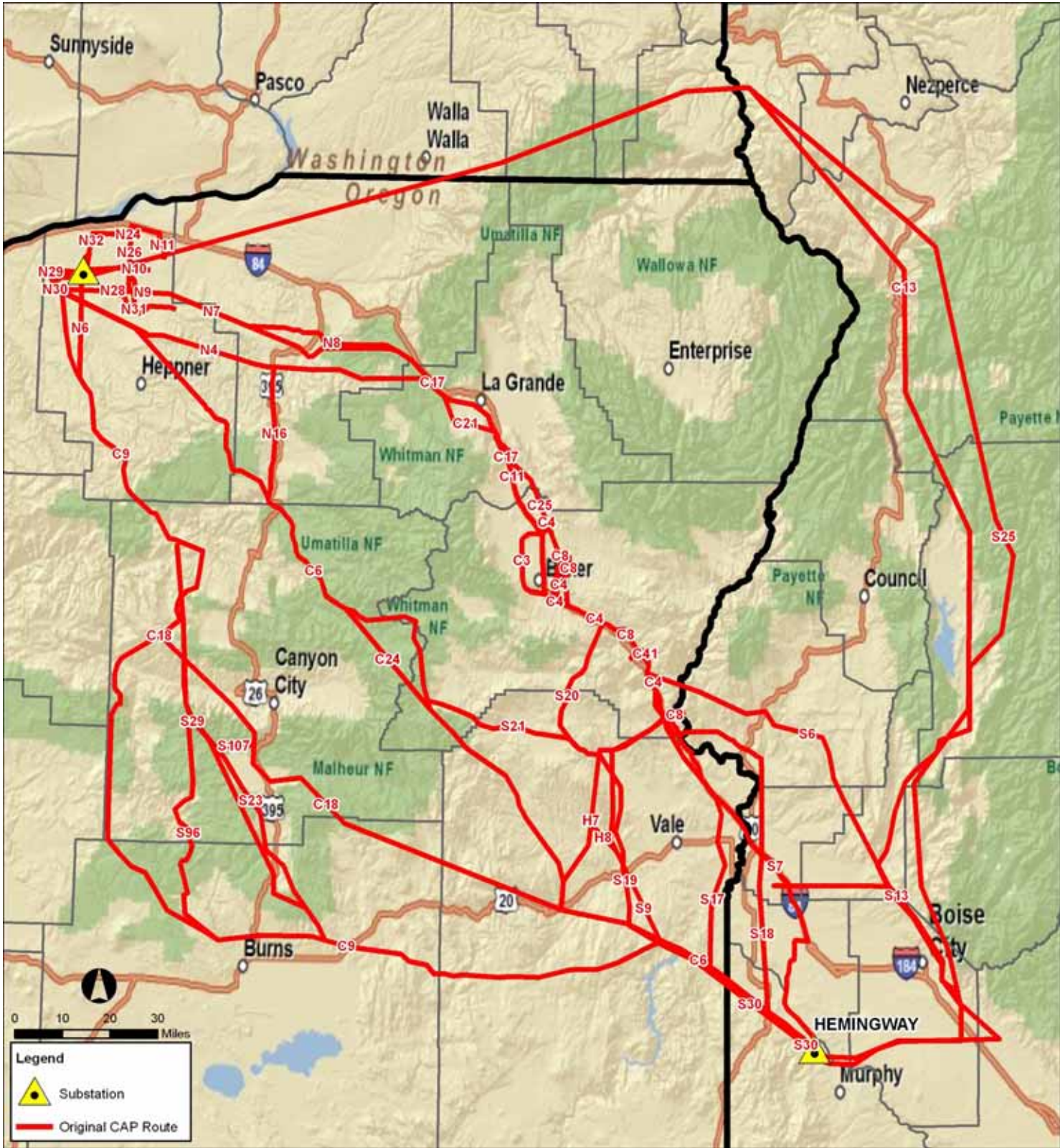
Next Steps:

1. Routes will be analyzed for permitting difficulty, construction difficulty and cost.
2. Proposed and revised routes will be compared within region and by creating complete routes.

ROUTE EVALUATION PROCESS

1. Recorded and labeled all routes received from PAT Meetings.

CAP ROUTES AS RECORDED

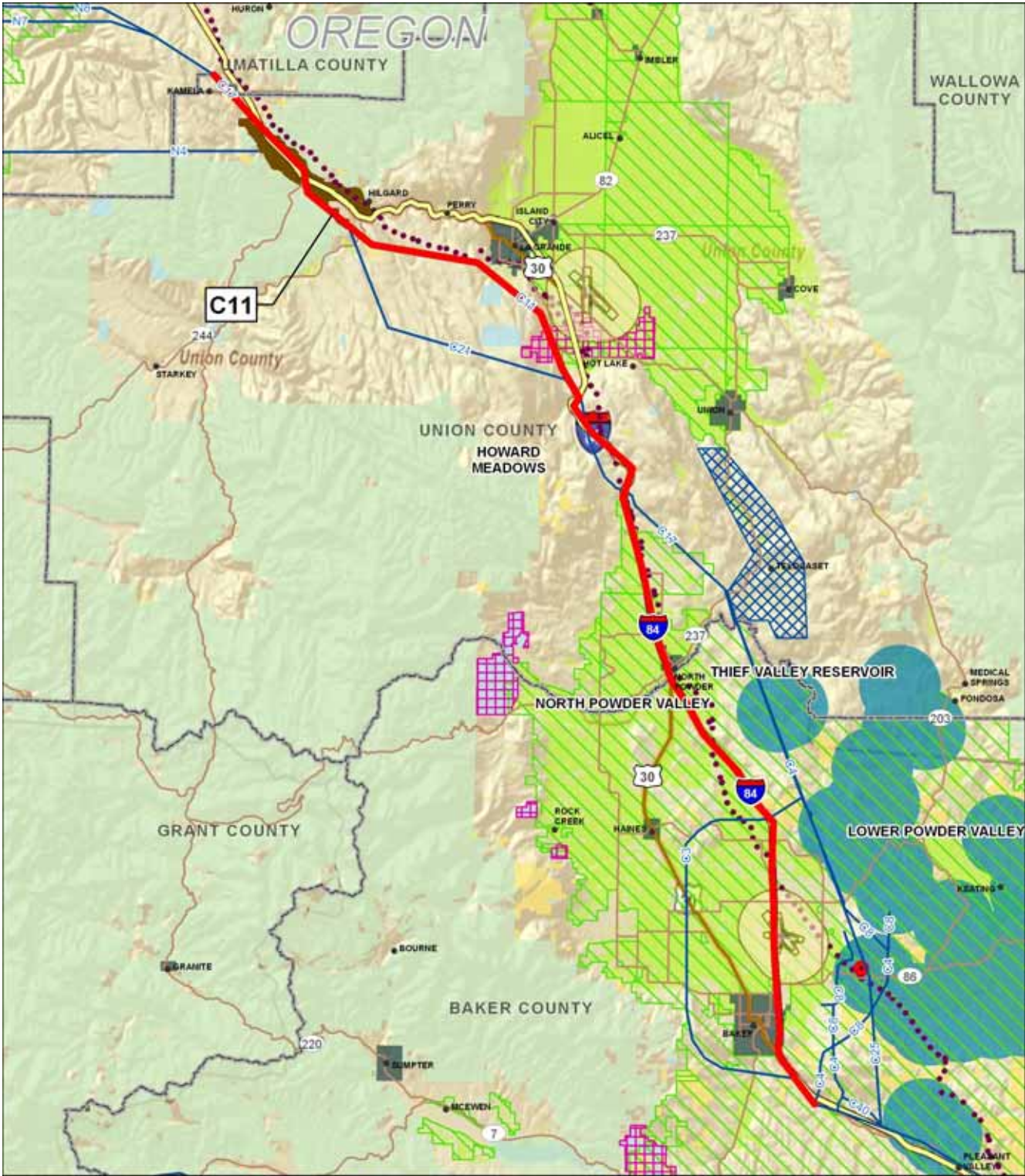


ROUTE EVALUATION PROCESS

2. Determined opportunity, avoidance and exclusion areas crossed by PAT proposed routes.

INDIVIDUAL CAP ROUTE ANALYSIS

ROUTE OVERVIEW



<p>ALTERNATE ROUTE C11</p> <p>IDAHO POWER COMPANY BOARDMAN - HEMINGWAY TRANSMISSION LINE PROJECT</p> <p>DECEMBER 2009</p>	<table border="0"> <tr> <td> C11</td> <td> Other CAP Alternate Routes</td> <td> Irrigated Agriculture</td> </tr> <tr> <td> Oregon Trail Interpretive Center</td> <td> Airport - Controlled Airspace</td> <td> Sage-grouse Lek 2 mi Buffer</td> </tr> <tr> <td> Oregon Trail</td> <td> National Forest Utility Corridor</td> <td> BLM</td> </tr> <tr> <td> Wildlife Management Area</td> <td> Wnd Farm</td> <td> Indian Reservation</td> </tr> <tr> <td> Urban Area</td> <td> National Park Service Private</td> <td> State</td> </tr> <tr> <td> Exclusive Farm Use Zone</td> <td></td> <td> US Forest Service</td> </tr> </table>	 C11	 Other CAP Alternate Routes	 Irrigated Agriculture	 Oregon Trail Interpretive Center	 Airport - Controlled Airspace	 Sage-grouse Lek 2 mi Buffer	 Oregon Trail	 National Forest Utility Corridor	 BLM	 Wildlife Management Area	 Wnd Farm	 Indian Reservation	 Urban Area	 National Park Service Private	 State	 Exclusive Farm Use Zone		 US Forest Service	 <p>0 5 Miles</p>
 C11	 Other CAP Alternate Routes	 Irrigated Agriculture																		
 Oregon Trail Interpretive Center	 Airport - Controlled Airspace	 Sage-grouse Lek 2 mi Buffer																		
 Oregon Trail	 National Forest Utility Corridor	 BLM																		
 Wildlife Management Area	 Wnd Farm	 Indian Reservation																		
 Urban Area	 National Park Service Private	 State																		
 Exclusive Farm Use Zone		 US Forest Service																		

INDIVIDUAL CAP ROUTE ANALYSIS

ROUTE CONSTRAINT TABLE

BOARDMAN TO HEMINGWAY: C11	
	Total Miles: 63.8
Common Name	Miles
Cultural Resources	
Vale District Cultural Site (Polygon)	2.2
Within 1200ft Historic Trail	9.1
Intact Oregon Trail Segment (Vale BLM)	3.9
National Register Historic Place .5 mi Buffer	0.7
Oregon Trail - Trailnut	1.8
Land Use	
Restricted Airspace	4.5
ODFW Conservation Opportunity Areas	32.2
Exclusive Farm Use & Irrigated Agriculture	2.5
Exclusive Farm Use & Class I & II Soils	3.3
Exclusive Farm Use	27.1
Forested Land	10.2
Grazing Allotment	7.1
Irrigated Agriculture	4.2
The Nature Conservancy: Portfolio	11.7
Urban Growth Boundary - Oregon	4.1
Urban Area	3.3
Wildlife Management Area - OR	1.0
Baker County, OR Zoning	
Baker County: Airport Overlay	1.4
Baker County: Exclusive Farm Use	23.1
Oregon Statewide Zoning	
Oregon Statewide Zoning: Agriculture	29.1
Oregon Statewide Zoning: Forest	30.7
Oregon Statewide Zoning: Rural Commercial	0.2
Oregon Statewide Zoning: Urban	3.8
Union County, OR Zoning	
Union County: Agriculture Grazing A-2	0.9
Union County: Exclusive Farm Use A-1	7.7
Union County: Timber Grazing A-4	29.8
Other Features	
Within 200ft of Existing Pipeline	1.6
National Forest Utility Corridor	5.6
Ownership	
Private	57.8
State Land	0.0
U.S. Forest Service	6.0
Geological Resources	
Erosion Hazard: High	3.9
Erosion Hazard: Low	13.6
Erosion Hazard: Moderate	33.9
Within 500ft of Fault Line	6.2
Prime Farmland (based on Soil Data)	43.5
Oregon Landslide Feature: Fan	2.5
Oregon Landslide Feature: Landslide	2.2
Arable Land: Soils Class II	4.2
Arable Land: Soils Class III	20.6
Arable Land: Soils Class IV	4.3
Arable Land: Soils Class VI	0.2
Fish and Wildlife	
Big Game Deer Winter Range (Oregon)	23.0
Big Game Elk Winter Range (Oregon)	21.7
Sage-grouse Core Area: NonHabitat/Other Vegetation (Oregon)	28.4
Sage-grouse Core Area: Potential Habitat (Oregon)	34.0
Sage-grouse Core Area: Sagebrush Habitat (Oregon)	1.5
Spring Chinook Streams	1 crossing
Summer Steelhead Streams	6 crossings
Bull Trout Streams	1 crossing
Visual Resources	
Within 1200ft Scenic Byway	14.0
Visual Quality Objective - Wallowa-Whitman NF: Modification	0.1
Visual Quality Objective - Wallowa-Whitman NF: Partial Retention	2.4
Visual Quality Objective - Wallowa-Whitman NF: Retention	3.5
Water and Wetlands	
Floodplain: 500-yr Flood Zone	0.0
Floodplain: Not in Flood Zone	40.6
Floodplain: Zone A	0.2
National Wetland Inventory	1.0

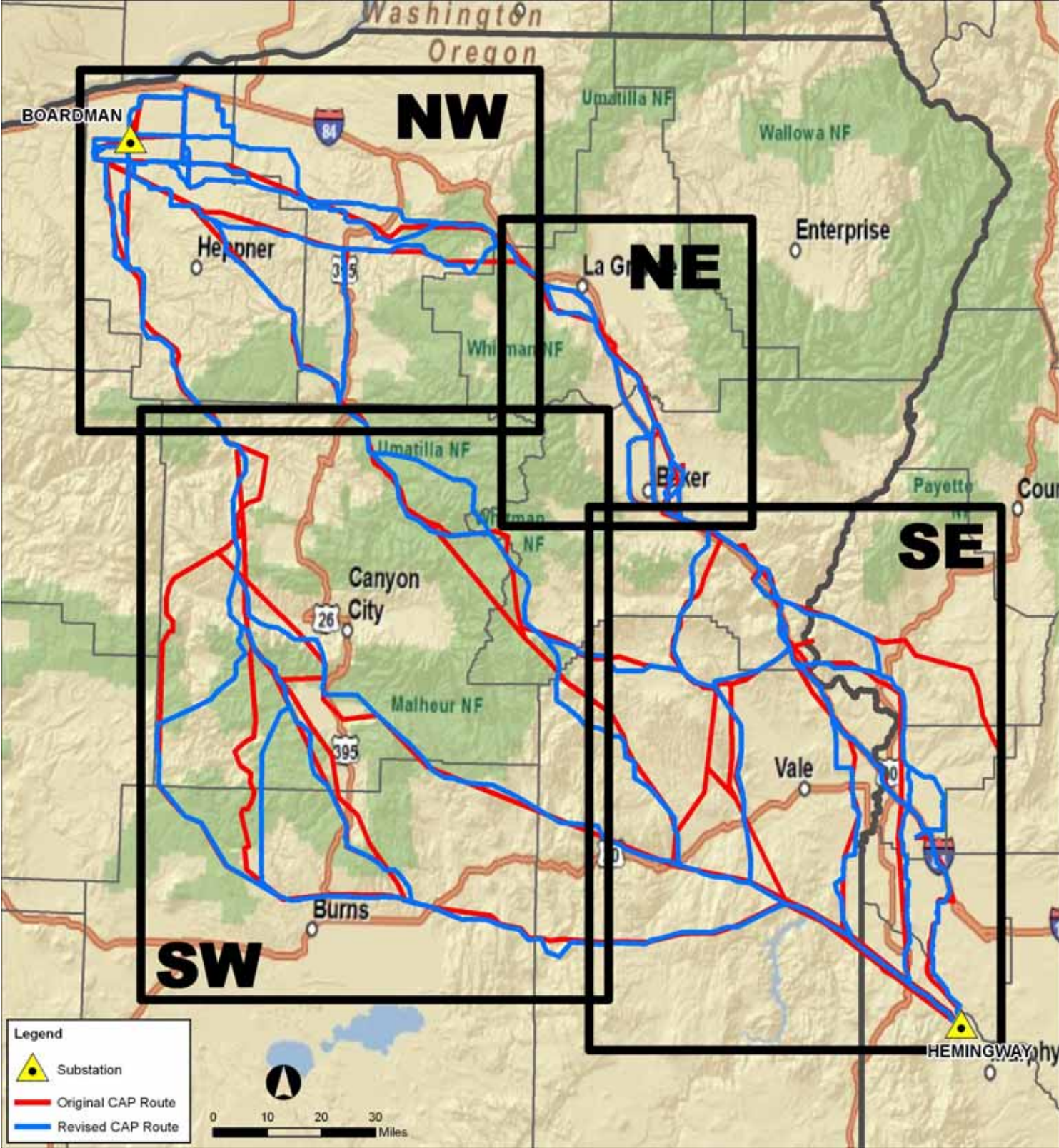
ADDITIONAL INPUT TO EVALUATION OF CAP ROUTES

- The Nature Conservancy
- Oregon Department of Fish and Wildlife
- BLM Prineville District
- BLM Burns District
- Forest Service: Wallowa-Whitman, Umatilla and Malheur National Forests
- Confederated Tribes of the Warm Springs
- Department of the Navy

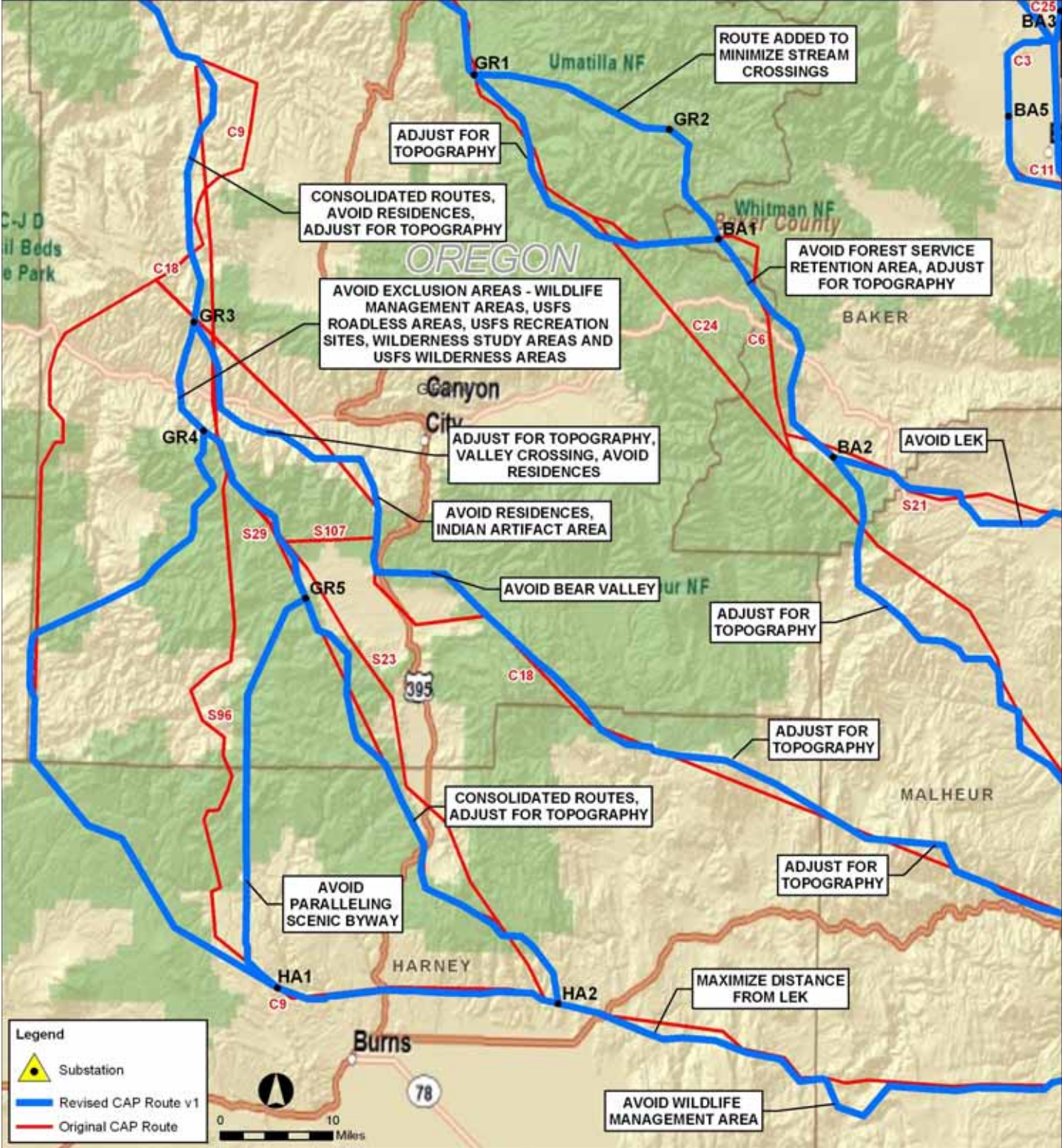
ROUTE EVALUATION PROCESS

3. Routes revised to avoid exclusion and avoidance areas.

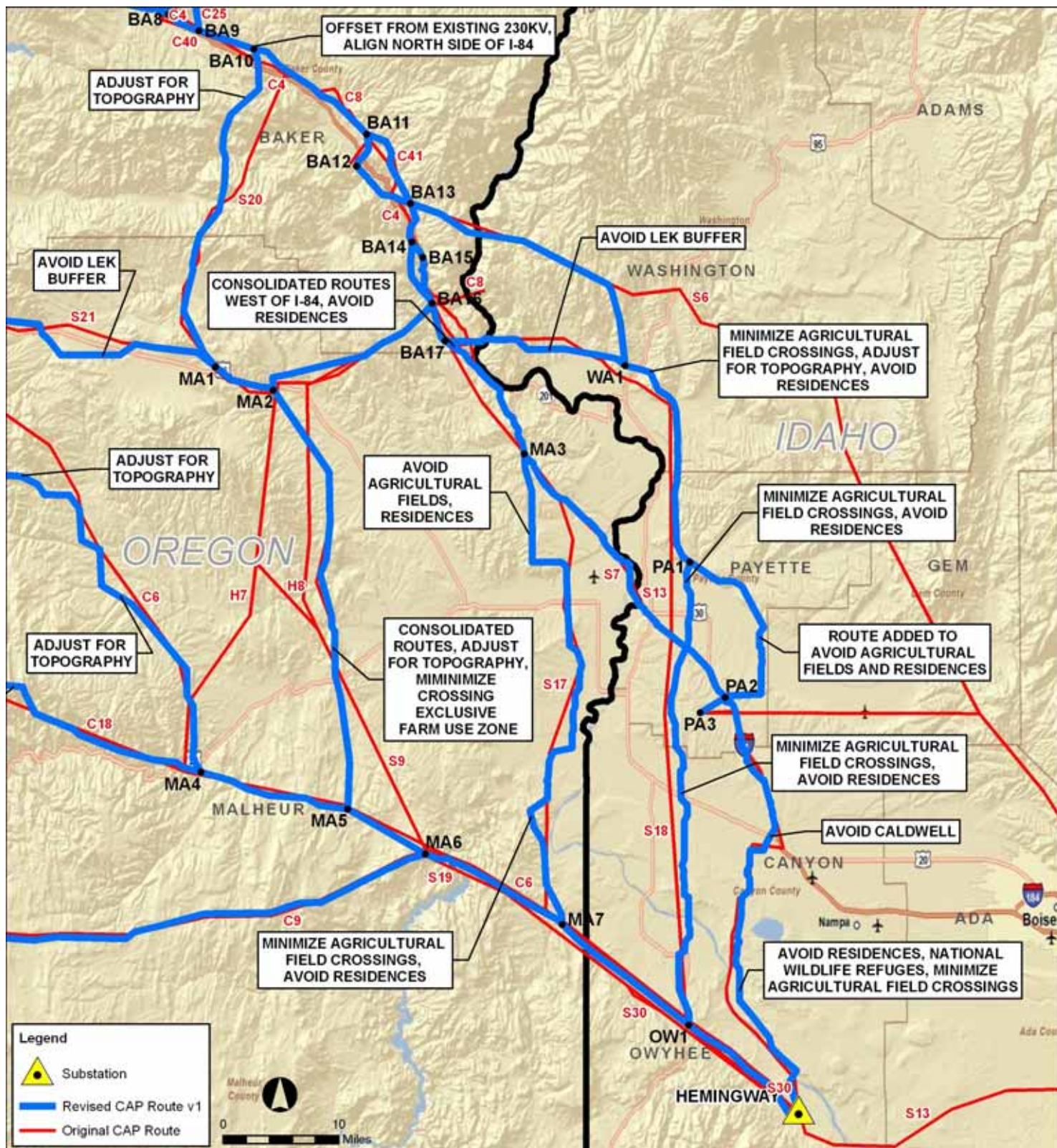
REVISED ROUTES



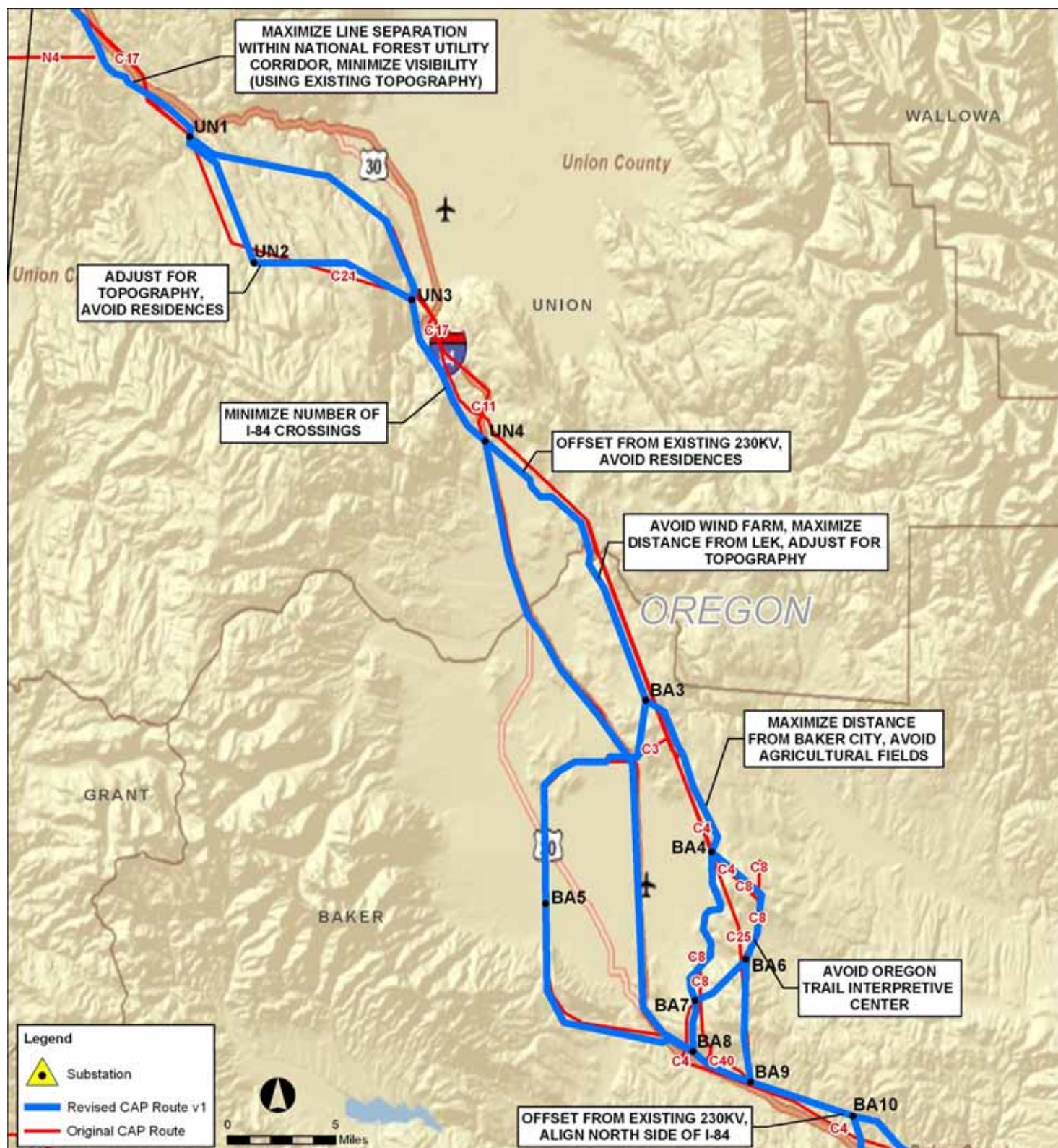
SOUTHWEST: Route Adjustments



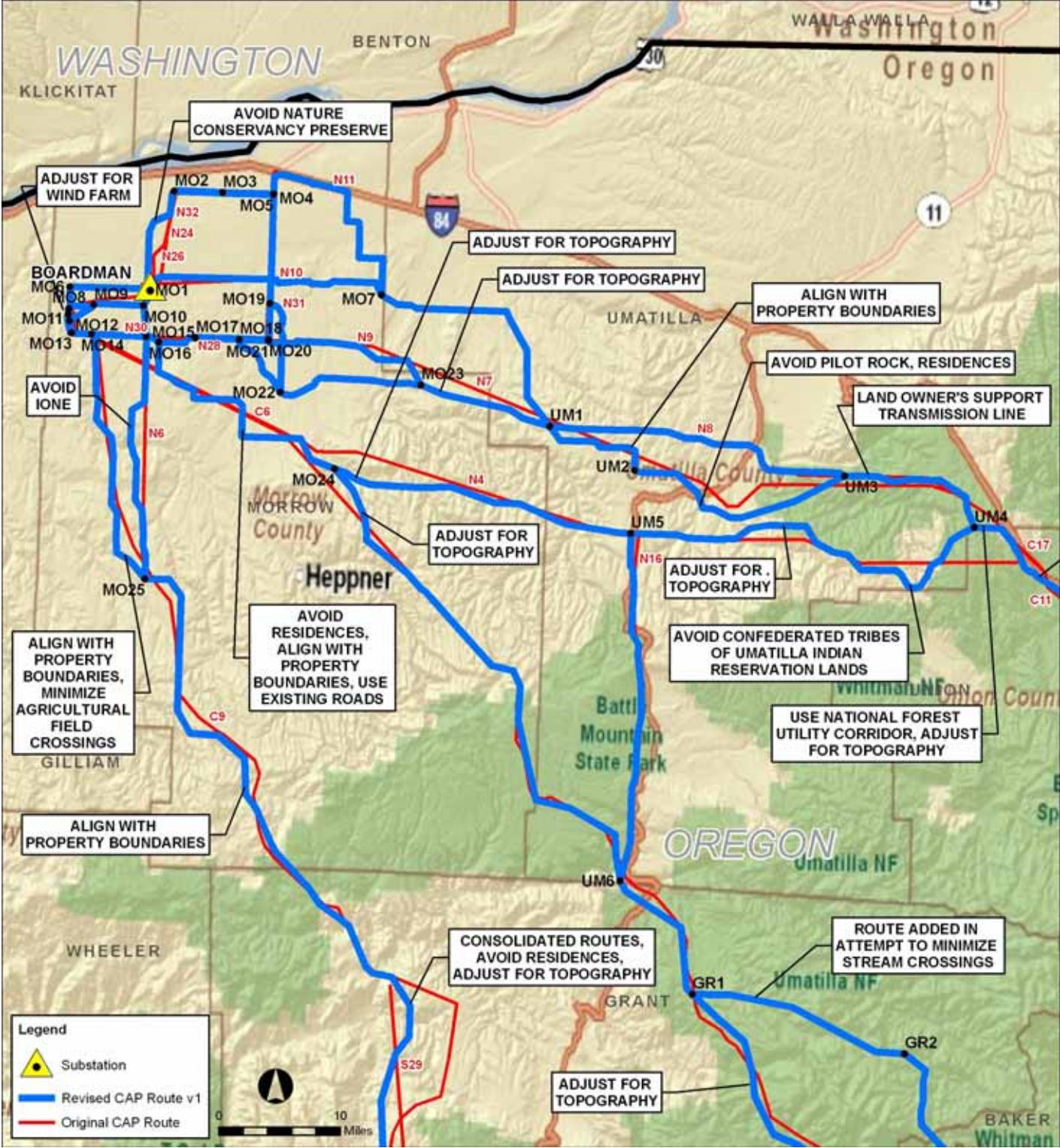
SOUTHEAST: Route Adjustments



NORTHEAST: Route Adjustments



NORTHWEST: Route Adjustments



ROUTE ANALYSIS PROCESS

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Next Steps:

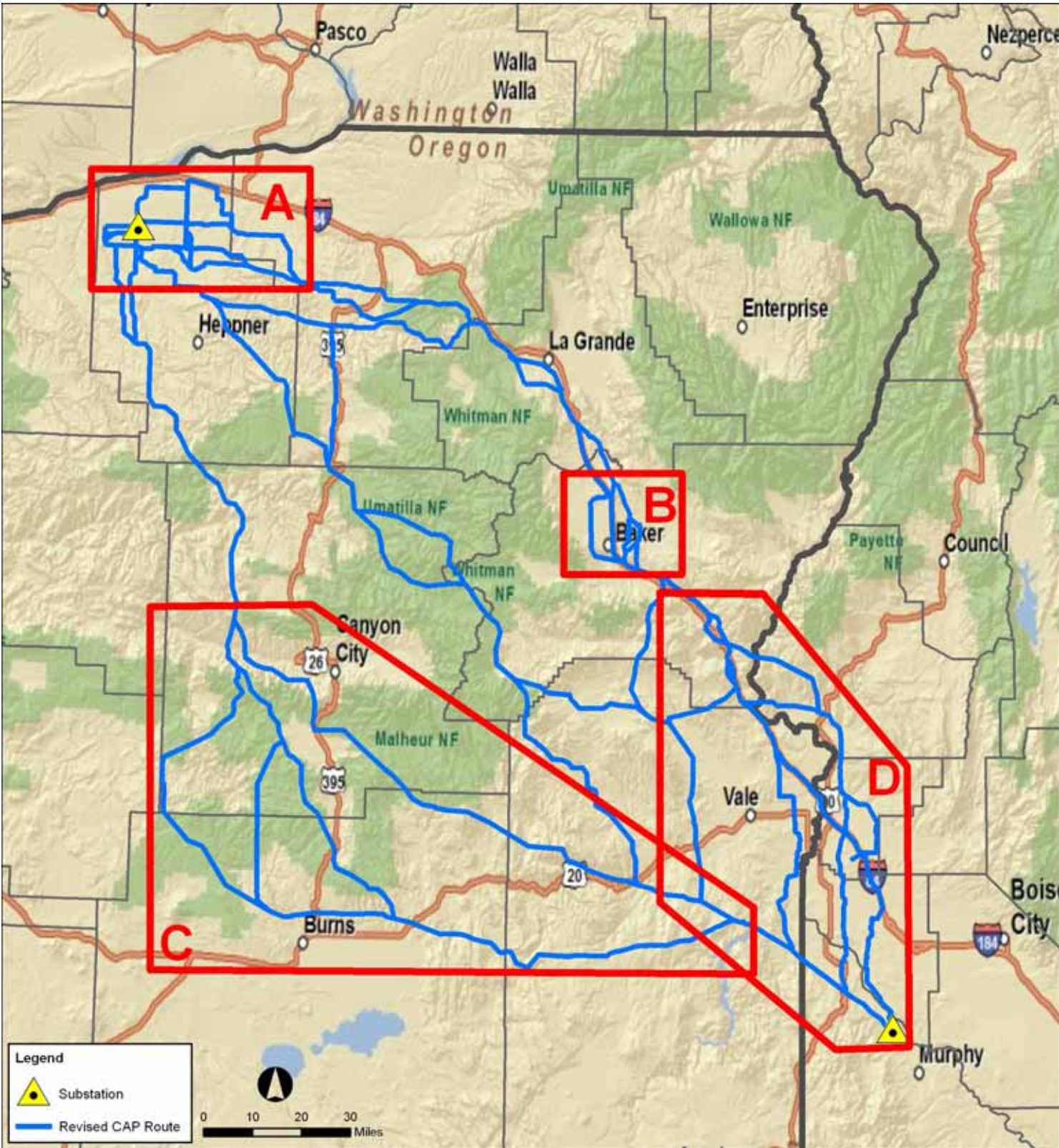
1. Routes will be analyzed for permitting difficulty, construction difficulty and cost.
2. Proposed and revised routes will be compared within region and by creating complete routes.

PLANNED ROUTE EVALUATION PROCESS

1. Routes will be analyzed for permitting difficulty, construction difficulty and cost.

(Begin with regions, move
to complete routes)

REGIONAL COMPARISONS



REGIONAL ANALYSIS

EXAMPLE: REGION C

C1



C2



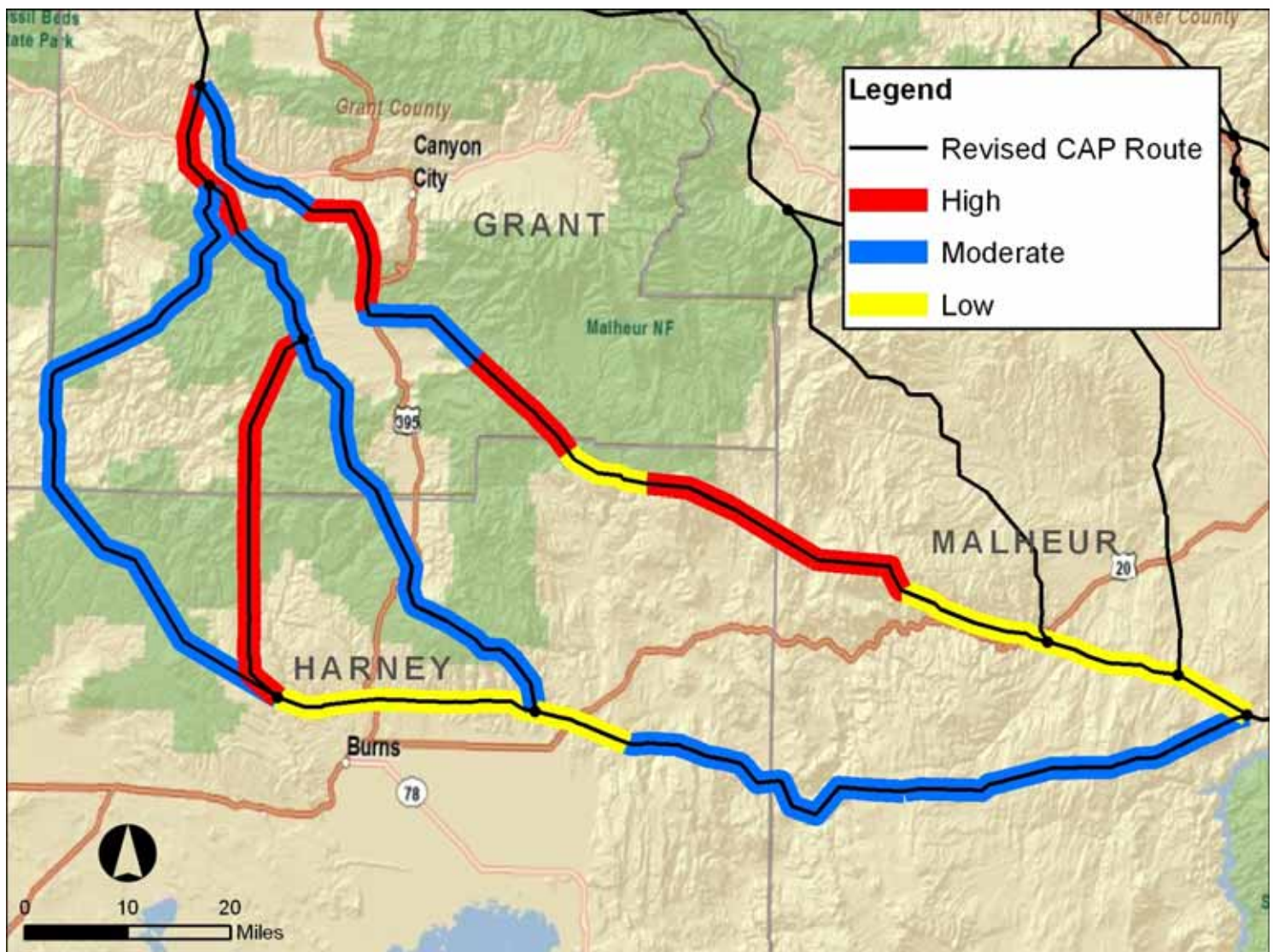
C3



C4



PERMITTING DIFFICULTY - Example



- Regulatory Guidelines and Standards
- Siting Criteria Document
- Community Criteria
- Resource Importance

Placement Opportunity	Avoidance Categories			Exclusion
<p>Areas that should be considered for transmission line routes because land uses were identified by the Project Advisory Team (indicated by shading) as a high priority for placement, and/ or routes are compatible with the construction, maintenance, and operation of overhead transmission lines.</p>	<p>These areas should be avoided unless there is no reasonable alternative. Mitigation¹ would be required for federally-managed lands and to meet Oregon Department of Energy Energy Facility Siting Council standards. Also a potential that federal resource plans would need to be amended to allow the project.</p>			<p>Areas where a transmission line is precluded by statute or regulation (federal, state, local) or as identified by the Project Advisory Team (indicated by shading).</p>
	<p>Avoidance: Low</p>	<p>Avoidance: Moderate</p>	<p>Avoidance: High</p>	
	<p>Very low to low impact. Mitigation, if necessary, would be very easy to implement</p>	<p>Moderate impact that could likely result in significant adverse impact that could require mitigation. Mitigation, if necessary, would range from fairly easy to implement to being costly or require longer time frames.</p>	<p>High to very high impact (duration, magnitude). Very difficult or infeasible to mitigate (due to technology, sensitivity of resource, time frame, or cost of mitigation).</p>	

1. Mitigation is a way to reduce the effect of an action. Mitigation is a process that includes avoiding the impact, minimizing the impact, and compensating for remaining unavoidable impacts.

COMMUNITY CRITERIA IDENTIFIED IN PAT MEETINGS

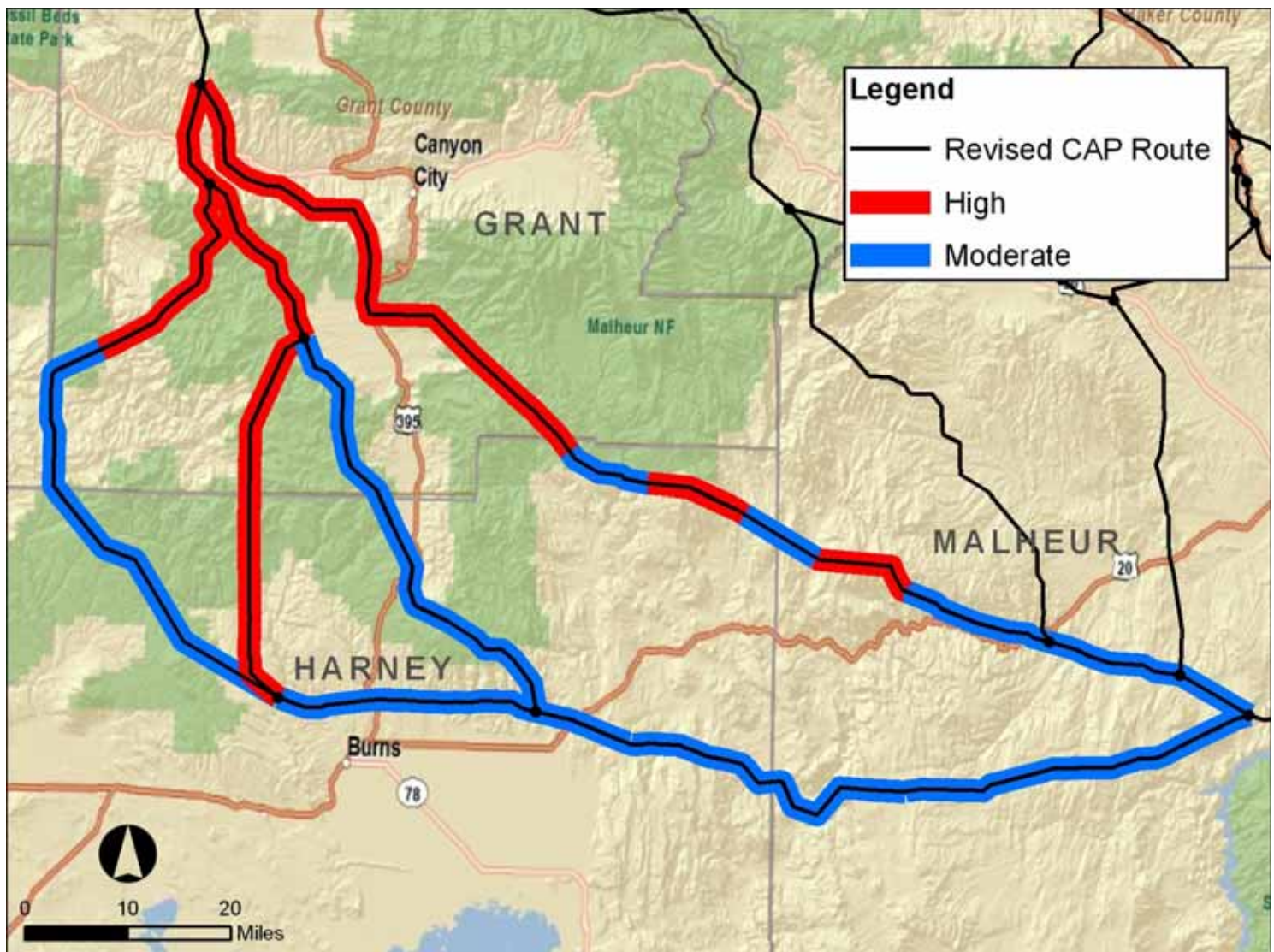
CAP Community and Idaho Power Company Criteria Importance

Constraint/Opportunity	Project Advisory Team (PAT)					IPC
	Grant	Harney	South	Central	North	Permitting
	PAT Rating	PAT Rating	PAT Rating	PAT Rating	PAT Rating	Importance
Pipeline	Opportunity	Opportunity	Opportunity	Opportunity	Opportunity	Opportunity
Naval Weapons System Training Facility	--	--	--	--	Opportunity	Avoidance: Mod
Vale District BLM Proposed & Existing Utility Corridor	Opportunity	Opportunity	Opportunity	Opportunity	--	Opportunity
Idaho County Impact Area	--	--	Exclusion	--	--	Avoidance: High
Oregon Urban Growth Boundary	--	--	Exclusion	--	Avoidance: High	Avoidance: High
Urban Area	--	--	Exclusion	Exclusion	Exclusion	Avoidance: High
Exclusive Farm Use Zone	Avoidance: High	Avoidance: High	Exclusion	Exclusion	--	Avoidance: Mod - High
For all 57 Community Criteria Identified in PAT Meetings						
US Forest Service Wilderness Area	Exclusion	Exclusion	--	--	--	Exclusion
Bureau of Land Management (managed lands)	--	--	Opportunity	Opportunity	Opportunity	Avoidance: Low
Bureau of Reclamation (managed lands)	--	--	Opportunity	Opportunity	Opportunity	Avoidance: Low
Other federal (managed lands)	--	--	Opportunity	Opportunity	Opportunity	Avoidance: Low
Private	Avoidance: High	Avoidance: High	Opp & Avd: High	Avoidance: High	Avoidance: High	Avoidance: Low
State (managed lands)	--	--	--	--	Opportunity	Avoidance: Low
US Forest Service (managed lands)	Avoidance: High	Avoidance: High	Opportunity	Opportunity	Opportunity	Avoidance: Low

ALL 200 COMMUNITY AND IDAHO POWER CRITERIA

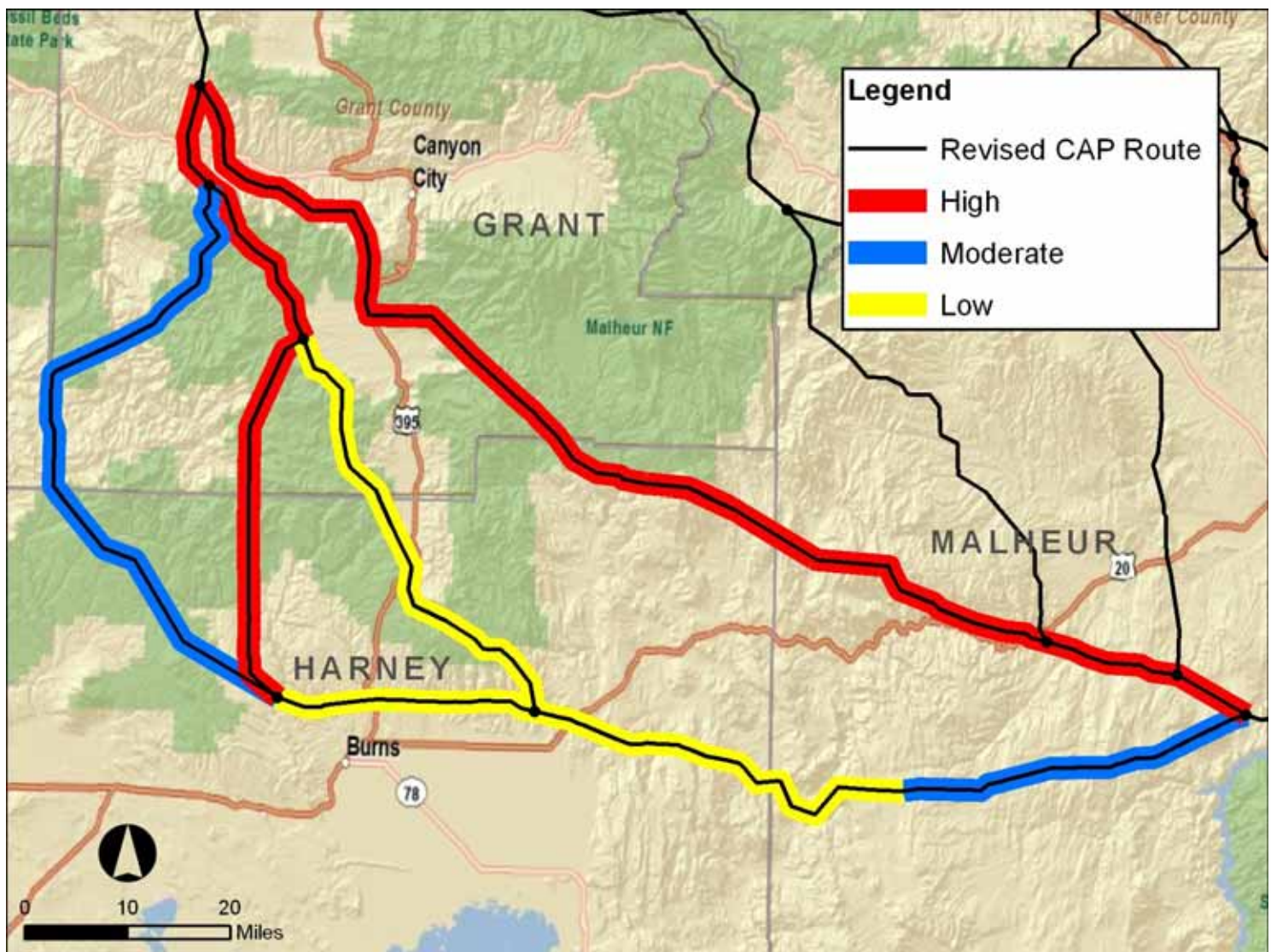
All Community and Idaho Power Criteria	Idaho Power Permitting Importance
Community Criteria high lighted in Green	
Ownership	
Bureau of Land Management	Avoidance: Low
National Park Service	Avoidance: Low
Private	Avoidance: Low
State Land	Avoidance: Low
U.S. Forest Service	Avoidance: Low
Military Lands	Avoidance: Low
Other Federal Land	Avoidance: Low
Cultural Resources	
Idaho Historic Trail/Oregon trail	Avoidance: Mod
Intact Oregon Trail Segment (Vale BLM)	Avoidance: Mod
Oregon Trail - Trailrut	Avoidance: High
Oregon Trail Interpretive Center	Exclusion
National Register Historic Place Site	Exclusion
National Register Historic Place .5 mi Buffer	Avoidance: High
Vale District Cultural Site (Polygon)	Exclusion
Within 500ft of Cemetery	Avoidance: Mod
Within 1200ft Historic Trail	Avoidance: Mod
Fish and Wildlife	
Big Game Crucial Winter Range (Idaho)	Avoidance: Mod
Big Game Deer Winter Range (Oregon)	Avoidance: Mod
Big Game Elk Winter Range (Oregon)	Avoidance: Mod
Bighorn Sheep Habitat (Idaho)	Avoidance: Mod
IDCDC At Risk Plants: General Location	Avoidance: Low
IDCDC At Risk Plants: Higher Precision Location	Avoidance: Mod
IDCDC Special Status Fish Area	Avoidance: Mod
IDCDC Wolfpack Area	Avoidance: Mod
John Day basin Fish Restoration Area	Avoidance: Mod
John Day Basin Seasonal Closure - Wildlife Habitat	Avoidance: Mod
Pronghorn Habitat (Idaho)	Avoidance: Mod
Within 2-mile Sage-grouse Lek Buffer - Oregon	Exclusion
Within 2-mile Sage-grouse Lek Buffer (Active) - Idaho	Exclusion
Within 2-mile Sage-grouse Lek Buffer (Inactive) - Idaho	Avoidance: Low
Within 2-mile Sage-grouse Lek Buffer (Unknown) - Idaho	Exclusion
Sage-grouse Core Area: NonHabitat/Other Vegetation (Oregon)	Avoidance: Low
Sage-grouse Core Area: Potential Habitat (Oregon)	Avoidance: Mod
Sage-grouse Core Area: Sagebrush Habitat (Oregon)	Avoidance: Mod
Sage-grouse Key Habitat Area (Idaho)	Avoidance: Mod
Sage-grouse Occupied Habitat (Oregon)	Avoidance: High
Sage-grouse Restoration Habitat Type 1: Perennial Grasslands (Idaho)	Avoidance: High
Sage-grouse Restoration Habitat Type 2: Annual Grass Understories (Idaho)	Avoidance: Low
Sage-grouse Restoration Habitat Type 3: (Idaho)	Avoidance: Low

CONSTRUCTION DIFFICULTY - Example



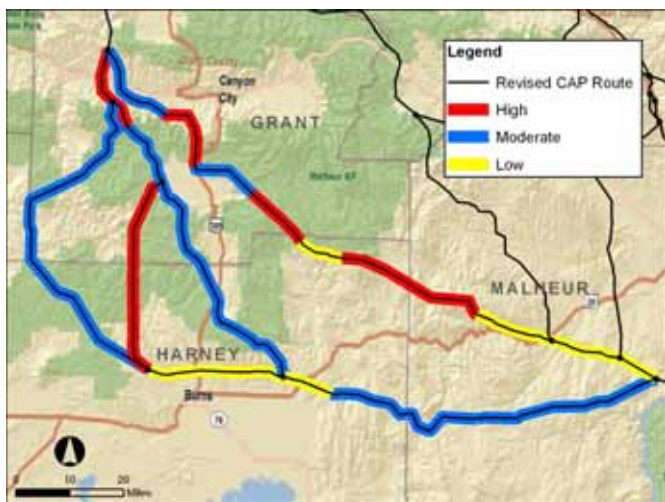
- Steep Terrain
- Proximity to Major Roads
- Tree Clearing
- Access Roads
- Stream Crossings
- Biological Seasonal Restrictions
- Severe Weather

COST - Example

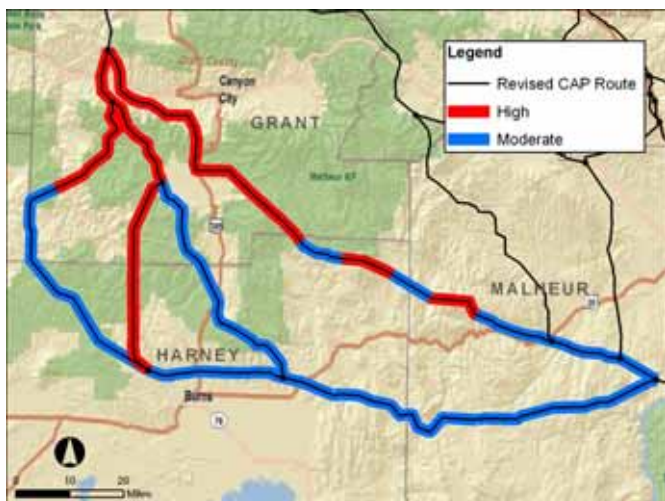


- Route Length
- Construction Difficulty
- Mitigation Requirements

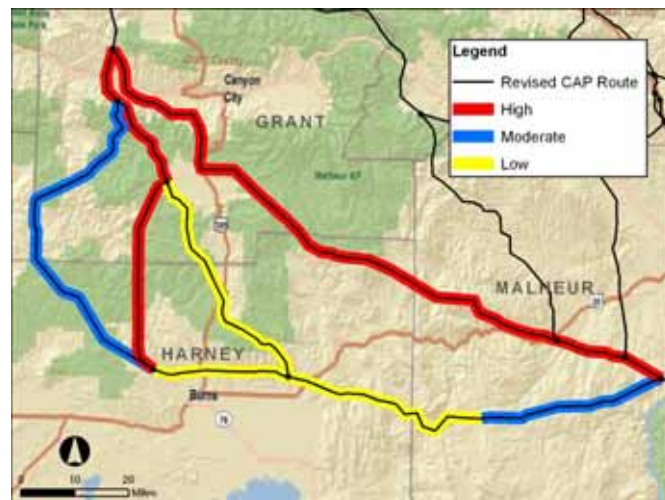
PERMITTING DIFFICULTY



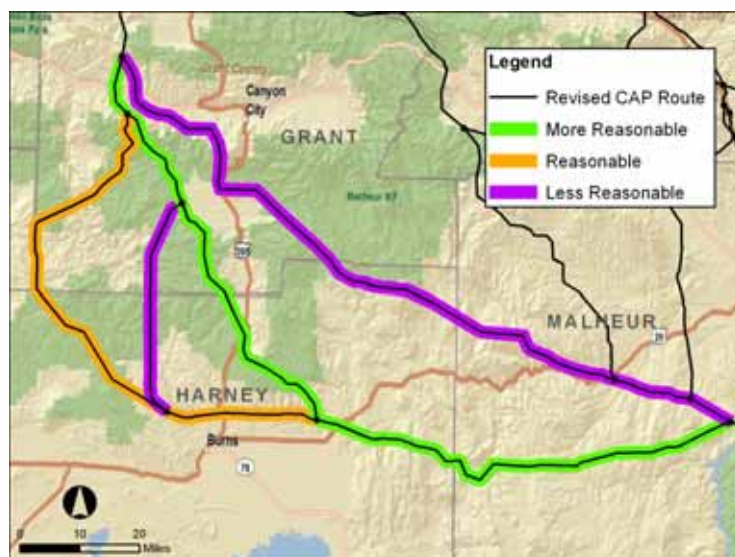
CONSTRUCTION DIFFICULTY



COST



RESULTS



ROUTE EVALUATION PROCESS

5. Proposed and revised routes will be compared within region and by creating complete routes.

ANALYSIS OF COMPLETE ROUTES - Example

