

EXHIBIT NO. ___(JMS-4)
DOCKET NO. UE-141335
WITNESS: JASON M. SANDERS

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

In the Matter of the Petition of:

**King County, Washington; BNSF Railway;
Frontier Communications Northwest, Inc.;
Verizon Wireless; and New Cingular Wireless
PCS, LLC.**

Docket No. UE-141335

For a Declaratory Order

**THIRD EXHIBIT (NONCONFIDENTIAL) TO THE
PREFILED DIRECT TESTIMONY OF
JASON M. SANDERS
ON BEHALF OF PUGET SOUND ENERGY, INC.**

NOVEMBER 19, 2014

Maloney Ridge Electrical Service Next Steps Meeting Notes

10-11:00am, Call-in 1-888-960-5962, Conf. ID: 922016

Attendees

Name	Dept	Call in	In Person	E-Mail Address
Jason Sanders	PSE		✓	jason.sanders@pse.com
Larry Berdan	PSE		✓	larry.berdan@pse.com
Rich Adams	PSE		✓	rich.adams@pse.com
Molly Reed	PSE		✓	molly.reed@pse.com
Dave Schumacher	Potelco	✓		david.schumacher@pse.com
Eric Holmgren	Potelco	✓		eholmgren@potelco.net
Denise Lorenz	Strata Inc	✓		dlorenz@statainc.com
Adelmo de la Cruz	BPA	✓		aadelacruz@bpa.gov
Ron Sallabedra	AT&T	✓		rs3418@att.com
Shirley Vangen	Verizon	✓		shirley.vangen@verizonwireless.com
Heather Campbell	Verizon	✓		Heather.Campbell3@verizonwireless.com
Marcus Wellsandt	Verizon	✓		Marcus.wellsandt@verizonwireless.com
James McPherson	Verizon	✓		James.mcpherson@verizonwireless.com
David Schultz	Verizon	✓		David.schultz@verizonwireless.com
Rob Dutcher	Frontier	✓		rob.dutcher@ftr.com
Sean Pullman	AT&T	✓		

Meeting Notes:

Welcome and Introductions – Jason Sanders

Overview:

Service to the Maloney and Sobieski communication sites is provided by approximately 8.5 miles of single phase 15kV underground cable originally trenched and plowed up the Foss River Road to the sites in 1971 or 1972. The system has had over 100 cable faults since it was originally installed. The number of outages has been increasing over the years and it is anticipated that frequency and duration will continue to increase. Weather, environmental conditions, age of the cable and splices decreases system reliability and without a replacement of the system, the cables will ultimately fail.

Project Milestones:

- Mid-April customers have selected a maintenance option



- End of April, PSE submits applicable permits with Forest Service based on maintenance option (Forest Service needs full summer for field investigation)
- End of year 2013/early 2014, Forest Service issues Decision Memo or Environmental Analysis for construction activities
- July 2014 Construction activities start

Questions:

Several questions were asked about the rate tariffs, current contract, the percent breakdown per customer for each option and the outage history and associated maintenance costs per year.

Attached to this pdf is:

Rate Tariffs

Contract

Percent breakdown per customer

Outage history and costs

Maloney Ridge Maintenance Estimates for each Option

The question was also asked which option PSE would recommend at this time. PSE recommends option 3 (see attached PDF of options), which replaces the 4 segments of cable with the largest number of outages. Replacing these 4 segments will increase the reliability of the whole system. PSE does want to note that the other cable segments that were not replaced now will need to be replaced at some point down the road.

At the last meeting the question was asked if the estimates could go up. The answer is yes. These estimates are only conceptual in nature at this point. All known assumptions and risks have been included. At this point no engineering has been done which makes it difficult to start too narrow down the cost. Once an option has been decided by the customers, a more refined estimate can be generated.

Maintenance Option picked by Customers:

All customers at this point indicated that they are still having internal discussions and have not decided on any option.

Next Steps:

The customers need to complete internal discussions and a discussion amongst themselves about the options and associated costs and come to an agreeable solution. Jason is going to set up another meeting mid April to discuss if an option has been selected so PSE can proceed with permitting.

Conclusion:

Jason concluded the meeting with his thanks to everyone's for their participation and patience as we work these options.

Maloney Ridge Maintenance Estimates

Option 1	
"Description"	Silicon injection to Sobiesky and Maloney cable and Install new poly cable whole project
Management & Engineering	\$225,000
Permitting	\$150,000
Materials	\$250,000
Construction	\$5,191,000
Subtotal CAP	\$5,816,000
Construction OH's @ 20%	\$1,088,200
Sales Tax 9.5%	\$552,520
10% Contingency	\$581,600
Rounded Total	\$8,100,000
2013 Costs	\$810,000
2014 Costs	\$7,290,000

Assumptions:

- Decision Memo from Forest Service
- Least cost trenching method
- Can cut down center of road
- Can clean current splices to inject silicon
- Assumes neutral is still good
- Assumes replacement of 77 culverts

100% road regrade

- No rock saw required
- Re-use any bridge crossing

- Outages will be allowed for cutovers
- Road restoration beyond trench line not required
- 40% of excavated materials can be reused for backfill
- Only 1 flagger required at base of hill
- All locations are accessible by vehicle, no additional road building required
- one mob/demob
- permanent road closure allowed

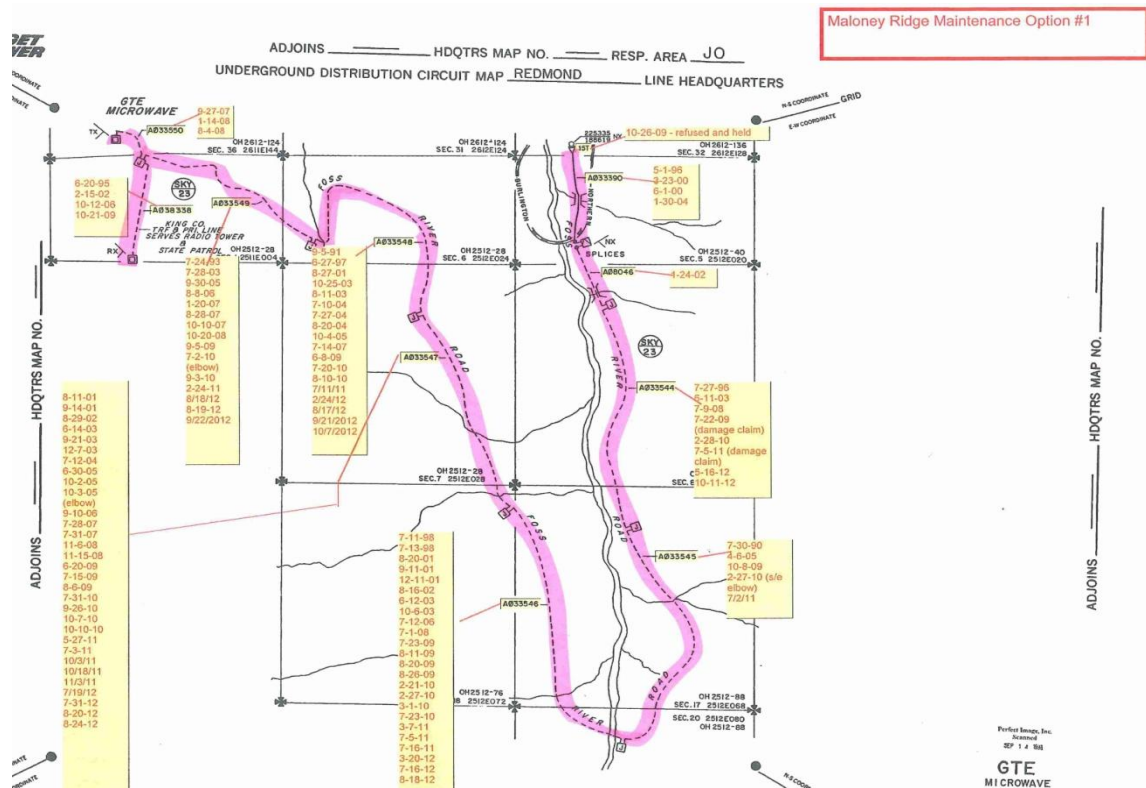
Not Included:

Influences on cost:

Solid Rock

Customers to share Cost

- BNSF - 1%
- Maloney Association - 24%
- Frontier - 24%
- King County - 51%



Maloney Ridge Maintenance Estimates

Option 2	
"Description"	Silicon injection to Sobiesky and Maloney cable and Install new poly cable down to Foss River Bridge
Management & Engineering	\$225,000
Permitting	\$150,000
Materials	\$250,000
Construction	\$4,670,000
Subtotal CAP	\$5,295,000
Construction OH's @ 20%	\$984,000
Sales Tax 9.5%	\$503,025
10% Contingency	\$529,500
Rounded Total	\$7,400,000
2013 Costs	\$740,000
2014 Costs	\$6,660,000

Assumptions:

- Decision Memo from Forest Service
- Least cost trenching method
- Can cut down center of road
- Can clean current splices to inject silicon
- Assumes neutral is still good
- Assumes replacement of 77 culverts

100% road regrade

- No rock saw required
- Re-use any bridge crossing

- Outages will be allowed for cutovers
- Road restoration beyond trench line not required
- 40% of excavated materials can be reused for backfill
- Only 1 flagger required at base of hill
- All locations are accessible by vehicle, no additional road building required
- one mob/demob
- permanent road closure allowed

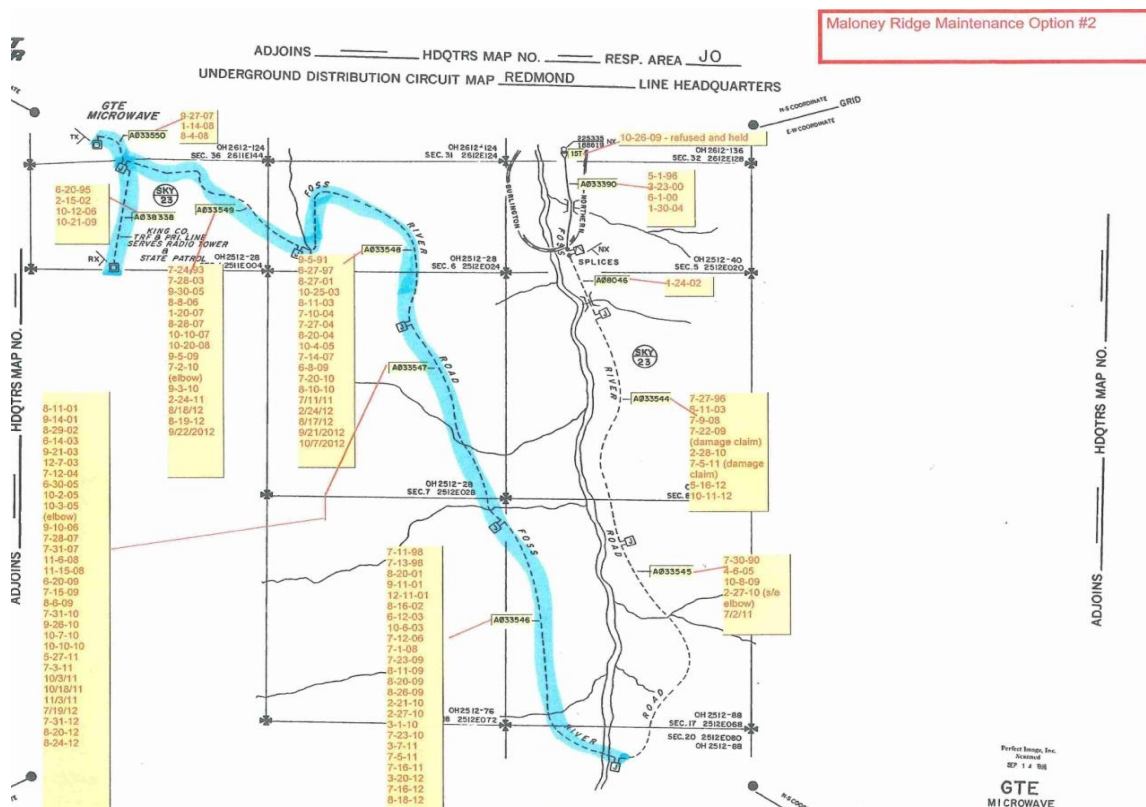
Not Included:

Influences on cost:

Solid Rock

Customers to share Cost

- Maloney Association - 23%
- Frontier - 23%
- King County - 54%



Maloney Ridge Maintenance Estimates

Option 3	
"Description"	Replace 4 worst cable Segments (33546,33547,33548,33549)
Management & Engineering	\$348,000
Permitting	\$150,000
Materials	\$170,000
Construction	\$1,758,000
Subtotal CAP	\$2,426,000
Construction OH's @ 20%	\$385,600
Sales Tax 9.5%	\$230,470
10% Contingency	\$242,600
Rounded Total	\$3,300,000
2013 Costs	\$330,000
2014 Costs	\$2,970,000

Risk/Assumptions:

- Decision Memo from Forest Service
- Least cost trenching method
- Can cut down center of road
- 100% road regrade
- No rock saw required
- Re-use any bridge crossing

Outages will be allowed for cutovers

Road restoration beyond trench line not
40% of excavated materials can be reused for backfill

Only 1 flagger required at base of hill
All locations are accessible by vehicle, no additional road building required
one mob/demob

permanent road closure allowed

Not Included:

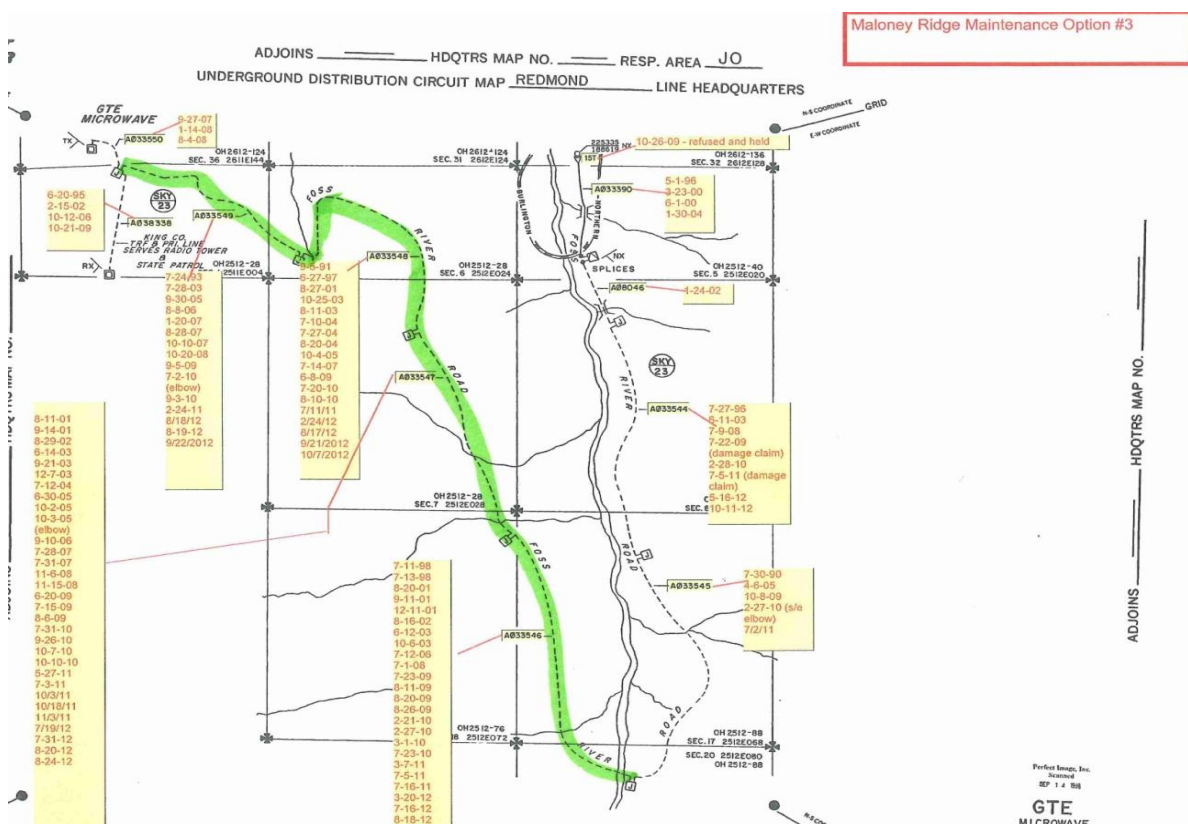
culvert xings not included

Influences on cost:

Solid Rock

Customers to share Cost

- Maloney Association - 33.3%
- Frontier - 33.3%
- King County - 33.3%



Maloney Ridge Maintenance Estimates

Option 4	
"Description"	Install new cable from Foss River Bridge to BNSF OH Pole
Management & Engineering	\$225,000
Permitting	\$150,000
Materials	\$200,000
Construction	\$940,000
Subtotal CAP	\$1,515,000
Construction OH's @ 20%	\$228,000
Sales Tax 9.5%	\$143,925
10% Contingency	\$151,500
Rounded Total	\$2,100,000
2013 Costs	\$210,000
2014 Costs	\$1,890,000

Assumptions:

- Decision Memo from Forest Service
- Least cost trenching method
- Can cut down center of road
- 100% road regrade
- No rock saw required
- Re-use any bridge crossing

Outages will be allowed for cutovers

- Road restoration beyond trench line not
- 40% of excavated materials can be reused for backfill
- one mob/demob
- permanent road closure allowed

Not Included:

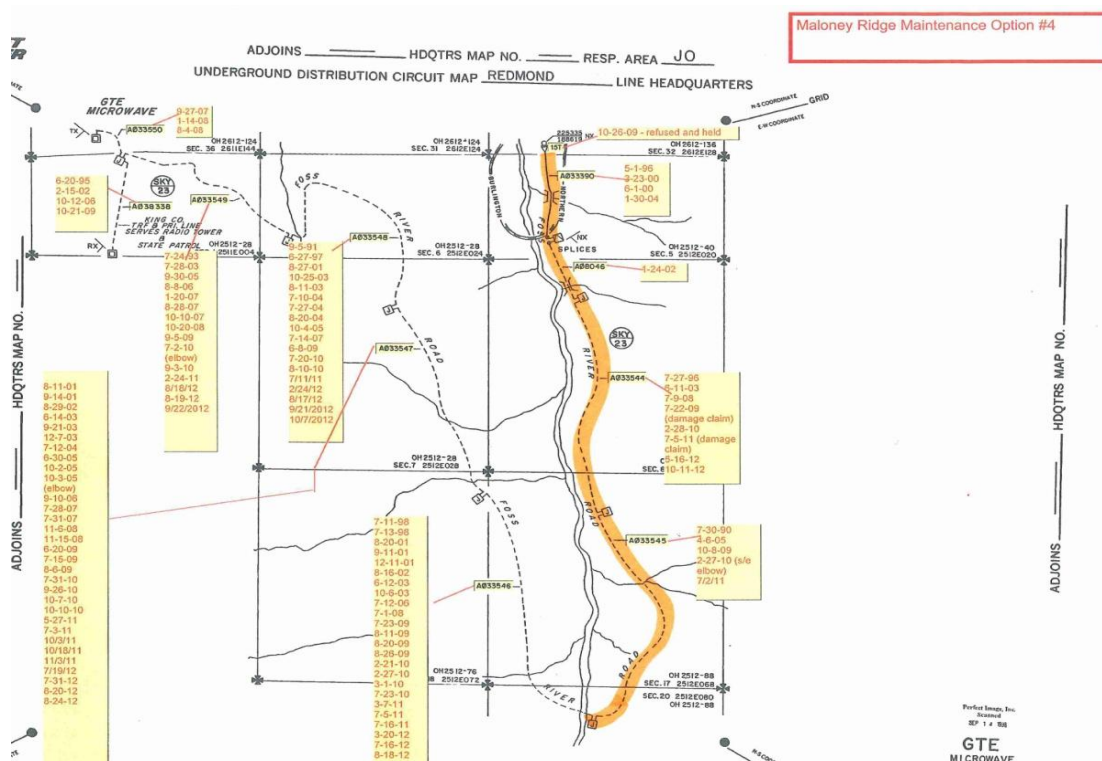
- culvert xings not included

Influences on cost:

- Solid Rock

Customers to share Cost

- BNSF - 6%
- Maloney Association - 31%
- Frontier - 31%
- King County - 31%



Maloney Ridge Maintenance Estimates

Option 5	
"Description"	Replace cables to Sobieski and Maloney (33550, 38338)
Management & Engineering	\$174,000
Permitting	\$150,000
Materials	\$114,000
Construction	\$1,727,000
Subtotal CAP	\$2,165,000
Construction OH's @ 20%	\$368,200
Sales Tax 9.5%	\$205,675
10% Contingency	\$216,500
Rounded Total	\$3,000,000
2013 Costs	\$300,000
2014 Costs	\$2,700,000

Risk/Assumptions:

- No rock saw required
- re-use bridge xings
- outages will be allowed for cutover
- permanent road closure allowed
- Road restoration beyond trench line
- 40% of excavated material can be re-used for backfill
- all locations are accessible by vehicle, no additional road building required
- one mob/demob

Not Included:

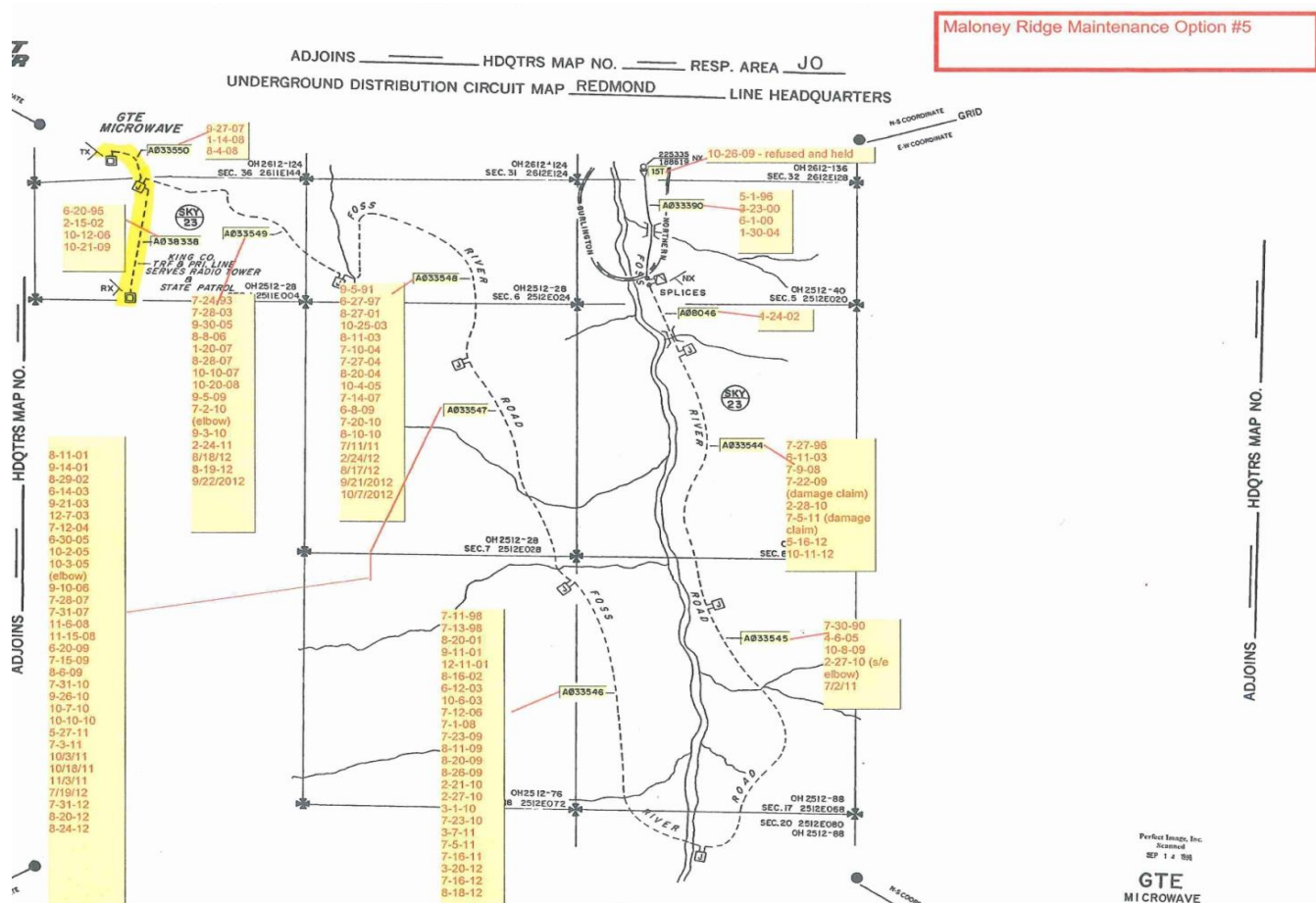
- culvert xings not included
- No tree or stump removals

Influences on cost:

Solid Rock

Customers to share Cost

- Maloney Association - 8%
- Frontier - 8%
- King County - 83%



Outage history for all cables				
Year	Outages by year	Cost by year	Avg cost per outage	Duration in minutes
2000	2	\$ 52,140	\$ 26,070	-
2001	6	\$ 50,802	\$ 8,467	6605
2002	4	\$ 65,205	\$ 16,301	3186
2003	9	\$ 53,583	\$ 5,954	7043
2004	5	\$ 45,049	\$ 9,010	6160
2005	5	\$ 42,828	\$ 8,566	4341
2006	4	\$ 39,742	\$ 9,935	4585
2007	7	\$ 67,749	\$ 9,678	7769
2008	7	\$ 75,385	\$ 10,769	6883
2009	11	\$ 99,347	\$ 9,032	9025
2010	15	\$ 168,466	\$ 11,231	10766
2011	13	\$ 211,664	\$ 16,282	13535
2012	18	\$ 105,831	\$ 5,880	14674

Total 115 \$ 1,077,791

Outage history for cables 33546, 47, 48, & 49				
Year	Outages by year	Cost by year	Avg cost per outage	Duration in minutes
2000	0	\$ -		\$ -
2001	6	\$ 50,802	\$ 8,467	6605
2002	2	\$ 14,435	\$ 7,217	1773
2003	8	\$ 46,706	\$ 5,838	5975
2004	4	\$ 37,518	\$ 9,379	5512
2005	4	\$ 36,058	\$ 9,015	3087
2006	3	\$ 31,911	\$ 10,637	3267
2007	6	\$ 59,792	\$ 9,965	6981
2008	4	\$ 41,456	\$ 10,364	3958
2009	8	\$ 70,512	\$ 8,814	5763
2010	15	\$ 168,466	\$ 11,231	10766
2011	12	\$ 198,647	\$ 16,554	12669
2012	16	\$ 100,829	\$ 6,302	13574

Total 93 \$ 857,131
 Percent of total outages 81%
 Percent of total cost 80%

