

1 BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION  
2 COMMISSION

3 In the Matter of the Petition of)  
 4 the WASHINGTON STATE DEPARTMENT )  
 5 OF TRANSPORTATION, BURLINGTON ) DOCKET NO. TR-940308  
 6 NORTHERN RAILROAD COMPANY, and )  
 7 THE NATIONAL RAILROAD PASSENGER )  
 8 CORPORATION for Modification of )  
 9 Order Regulating the Speed of )  
 10 Passenger Trains in Ferndale, )  
 11 Washington. )  
 -----)  
 12 BURLINGTON NORTHERN RAILROAD )  
 13 COMPANY, ) DOCKET NO. TR-940330  
 14 Petitioner, )  
 15 v. ) Volume I  
 16 FERNDALE, WASHINGTON, ) Pages 1-259  
 17 Respondent. )  
 18 -----)

12 A hearing in the above matter was held on  
 13 October 12, 1994 at 9:42 a.m., at 2222 Main Street,  
 14 Ferndale, Washington, before Administrative Law Judge  
 15 LISA ANDERL.

16 The parties were present as follows:

17 WASHINGTON STATE DEPARTMENT OF  
 18 TRANSPORTATION by JEANNE A. CUSHMAN, Assistant  
 19 Attorney General, 905 Plum Street, P.O. Box 40113,  
 Olympia, Washington 98504-0113.

20 BURLINGTON NORTHERN RAILROAD COMPANY by  
 21 REXANNE GIBSON, Attorney, 110 110th Avenue Northeast,  
 Suite 607, Bellevue, Washington 98004.

22 THE NATIONAL RAILROAD PASSENGER CORPORATION  
 23 by ALDEN L. CLARK, Senior Director - Contract  
 Operations, 90 Massachusetts Avenue Northeast,  
 Washington, D.C. 22015.

24 Lisa K. Nishikawa, CSR, RPR  
 25 Court Reporter

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CITY OF FERNDALE by GARY M. CUILLIER,  
City Attorney, 2084 Alder Street, P.O. Box 1126,  
Ferndale, Washington 98248.

WASHINGTON UTILITIES AND TRANSPORTATION  
COMMISSION by ANN RENDAHL, Assistant Attorney General,  
1400 South Evergreen Park Drive Southwest, Olympia,  
Washington 98504.

I N D E X						
	WITNESS:	DIRECT	CROSS	REDIRECT	RE CROSS	EXAM
1						
2						
3	A. DICKSON	15	18			
4	W. HATTON	21	35			38
5	K. COTTINGHAM	41	60	75		73
6	A. CLARK	78	91			
7	C. BRYANT	102				
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19	EXHIBIT	MARKED	ADMITTED			
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P R O C E E D I N G S

JUDGE ANDERL: This hearing will please come to order. The Washington Utilities and Transportation Commission has set for hearing at this time and place consolidated Docket Numbers TR-940308 and TR-940330. The first docket is a petition by the Washington State DOT, Burlington Northern, and Amtrak for modification of the Commission order regulating the speed of passenger trains in Ferndale.

The later docket is a petition by Burlington Northern to close a crossing in the city of Ferndale, and in that case Ferndale is the respondent.

My name is Lisa Anderl. I'm the administrative law judge assigned to hear the case today. We're convened in Ferndale on October 12, 1994. I would like to take appearances at this time beginning with Burlington Northern.

MS. GIBSON: Rexanne Gibson representing Burlington Northern Railroad Company, petitioner.

JUDGE ANDERL: And for the DOT?

MS. CUSHMAN: Good morning, I'm Jeanne Cushman representing Washington State Department of Transportation.

JUDGE ANDERL: And for the petitioner, Amtrak?

1 MR. CLARK: Alden L. Clark for Amtrak.

2 JUDGE ANDERL: Thank you. For the city of  
3 Ferndale?

4 MR. CUILIER: Gary Cuillier for the City  
5 of Ferndale.

6 JUDGE ANDERL: And for Commission staff?

7 MS. RENDAHL: Ann Rendahl, assistant  
8 attorney general, representing the Commission staff.

9 JUDGE ANDERL: Before we went on the  
10 record, we discussed a number of things, including the  
11 order of presentation of witnesses today. Ms. Rendahl  
12 has asked for a witness to testify out of order and we  
13 will do that first as all of the parties have agreed  
14 to that.

15 We also premarked some exhibits which I'll  
16 identify in just a moment, but before we do any of  
17 those things, I believe that some of the parties do  
18 have an opening statement that they would like to  
19 make, so Ms. Gibson, we'll start with you.

20 MS. GIBSON: Thank you, your Honor. The  
21 joint petitioners here are Burlington Northern,  
22 Amtrak, and the Department of Transportation, and we  
23 are making the three requests that you just briefly  
24 referred to. First, an increase in passenger train  
25 speeds over that permitted currently by the Commission

1 orders. Of course, there is no passenger service on  
2 this line currently; it was discontinued in 1981, but  
3 Amtrak is planning to start it again and will require  
4 the 70 and 79 mile speed limits as is outlined in the  
5 petition.

6 We are also asking to close Thornton Road,  
7 which is this crossing I'm indicating here on the  
8 exhibit, in order to extend a siding which is shown by  
9 the dotted line. This is exhibit number what did we  
10 admit this?

11 JUDGE ANDERL: We didn't talk about the  
12 picture as an exhibit.

13 MS. GIBSON: All right.

14 JUDGE ANDERL: Let me just state for the  
15 record that Ms. Gibson is referring to a photograph,  
16 an aerial photograph that's, I don't know, probably  
17 three feet by four feet, and it's going to be offered  
18 as an exhibit in a reduced form 9 by 12 or something  
19 like that. We'll give it an exhibit number. We'll  
20 give it proposed Exhibit Number 10 since we premarked  
21 1 through 9.

22 (Marked Exhibit No. 10.)

23 MS. GIBSON: All right. So looking at  
24 Exhibit Number 10 then, where there's this dotted line  
25 along the railroad track, that is a proposed extension

1 to the siding that Burlington Northern needs to make  
2 in order to accommodate the new passenger train  
3 service. That's because freight trains moving at a  
4 slower speed will need to move over onto a siding in  
5 order to allow Amtrak to pass on the main line track  
6 going at the speeds which are indicated in the  
7 petition.

8           There is now in existence a shorter siding,  
9 but it's not long enough to accommodate current and  
10 future freight train traffic, given the length of the  
11 freight trains which we will have.

12           The petition also seeks permission to  
13 upgrade signals at several different crossings in the  
14 city, specifically Hovander Road, Second Street, and  
15 Washington Street. This will give the city increased  
16 protection.

17           The court has taken -- the administrative  
18 law judge has taken an official notice now through  
19 admission of the exhibit of this Ferndale resolution  
20 which was done by the City of Ferndale in February of  
21 this year basically in support of this project to  
22 reinstitute passenger traffic on this line.

23           Apparently now the city has taken a  
24 different position, which as we understand it and  
25 which we have geared our evidence to meet is that,

1 number one, either Thornton Road crossing should  
2 remain open and then a connector road should be  
3 placed, and perhaps I'll approach Exhibit 10 again and  
4 just indicate this. That their position would be that  
5 Thornton Road crossing should remain open with a  
6 connector road going along here (pointing) next to I-5  
7 and then with a connection to Portal Road interchange  
8 in order to provide access from the northern part of  
9 the town to Interstate 5 and the other side of  
10 Interstate 5. So that's one position that they are  
11 taking.

12                   And then as I understand it, the other is  
13 if you close the Thornton Road crossing, then the  
14 petitioners essentially should be required to pay for  
15 an overpass over Thornton Road to the freeway, which I  
16 think the court will find is outside the scope of this  
17 hearing, and also the city's two proposals would,  
18 either one of them, would create a dangerous and  
19 unworkable situation, and that's what our evidence is  
20 prepared to show today.

21                   This is a project -- the passenger rail  
22 project is part of a national scheme to reinitiate  
23 passenger service in order to take some of the stress,  
24 the ecological, the expense, all of the damage off of  
25 our nation's freeways and to put more traffic on the



1 rail in a more organized fashion.

2 We understand, petitioners are well aware  
3 that the city is having some growing pains, that they  
4 have some traffic flow problems. The point we will  
5 try to make by our presentation today and tomorrow is  
6 that the city has other options rather than trying to  
7 hold up a project which really does have national  
8 implications, that they have other ways of meeting  
9 their problems than by trying to stop the project.

10 JUDGE ANDERL: Thank you, Ms. Gibson. Ms.  
11 Cushman, do you have an opening statement?

12 MS. CUSHMAN: No.

13 JUDGE ANDERL: Mr. Cuillier?

14 MR. CUIILLIER: I might clarify, the  
15 resolution that has been referred to that the City of  
16 Ferndale did sign and go along with indicates that the  
17 city would agree to discuss the possibility of closing  
18 non-essential grade crossings, but the main crux of  
19 the resolution was regarding the speed change that was  
20 being requested and the speed limit increases is what  
21 is referred to on the second page of the resolution  
22 after the whereas clauses.

23 And other than some possible fencing  
24 concerns or need for fencing along at least the  
25 northerly part of the Ferndale High School area where

1 the soccer and baseball fields are, the speed  
2 increases are something that the city as such as a  
3 governmental unit has more or less gone along with  
4 even though some members of the public and some  
5 residents within the community may appear to express  
6 some fear for the safety of individuals in and about  
7 the tracks with the increased speeds.

8           With regard to the closure of Thornton  
9 Road, the city's main point at this hearing is that it  
10 will basically deprive the city of the only feasible  
11 and economically viable way of meeting it's Growth  
12 Management Act obligations. The city, the testimony  
13 will show, has been experiencing terrific growth to  
14 the north and that traffic is funneled into the main  
15 part of town and funneled across the only bridge  
16 across the Nooksak River that is access to the city.

17           And as the growth projections for the next  
18 20 years have shown through the testimony that will be  
19 presented of Mike Birdsall, the city's expert, the  
20 city will continue to grow rapidly in the area and  
21 north of the area of the Thornton connector, and it's  
22 always been a primary concern of the city going back  
23 for many years to eventually connect that street with  
24 the freeway. It creates various problems, not so much  
25 at this present time, but in the foreseeable future,

1 to not have a way to get the traffic to the freeway in  
2 that area.

3 And the city with its residential growth is  
4 not in the position in the foreseeable future to be  
5 able to fund the type of interchange modification or  
6 the type of overpass modification that would be  
7 required to meet the growth management traffic  
8 comprehensive plan requirements, and so being placed  
9 in the position of basically not having a viable plan  
10 in that area of the city, the city is asking that some  
11 alternatives to the complete closure of the crossing,  
12 such as a remodification of the interchange, be  
13 imposed as a condition of the approval of the closure  
14 or that it is set that the closure will not be allowed  
15 unless the parties comply with this state Growth  
16 Management Act.

17 The state Growth Management Act  
18 specifically says that state agencies have to comply  
19 with local plans and, therefore, if the administrative  
20 law judge were to say that the closure would only be  
21 allowed if that mandate of the law is complied with,  
22 perhaps these alternatives could be pursued in a more  
23 appropriate forum that would involve some options,  
24 alternatives, give and take, but at this point we're  
25 in the position of basically asking that any closure

1 be conditioned on compliance with the state law that  
2 binds state agencies under the 1991 amendment to the  
3 Growth Management Act, including the WUTC. Thank you.

4 JUDGE ANDERL: Okay. Thank you. Mr.  
5 Cuillier, let me just ask you, does the City of  
6 Ferndale have an approved comprehensive plan right  
7 now?

8 MR. CUIILLIER: We have a traffic plan  
9 that's been approved and we also have a draft plan  
10 that's being -- it's in a formal document and it's  
11 being considered for final adoption under the Growth  
12 Management Act. In other words, since really as early  
13 as 1972 we have had written plans detailing the  
14 Thornton Road connection.

15 JUDGE ANDERL: Will some of those documents  
16 be offered as evidence?

17 MR. CUIILLIER: Yes. I think it's tomorrow  
18 that we plan to bring those and present our case.

19 JUDGE ANDERL: Okay, thank you. Ms.  
20 Rendahl, an opening statement?

21 MS. RENDAHL: I have no opening statement,  
22 your Honor.

23 JUDGE ANDERL: Okay, thank you. In their  
24 opening statements some counsel did refer to the  
25 exhibits that we had marked before we went on the

1 record. Let me go through those now. I do have an  
2 indication from all the attorneys that they will  
3 stipulate to the admission of each of these exhibits,  
4 so as I identify them, I will also be admitting them  
5 unless there's an objection.

6 Exhibit Number 1 is Resolution Number  
7 94-2-22 by the City of Ferndale dated 22nd of  
8 February 1994. Exhibit Number 2 is a letter to Mr.  
9 John Eley, E L E Y, dated August 29, 1994. Exhibit  
10 Number 3 is a small blue booklet entitled FRA Track  
11 Safety Standards, 1989.

12 Exhibit Number 4 is a color map of  
13 Ferndale, Washington. It's a reduced version of a  
14 document that we have on an easel here that I believe  
15 witnesses will be referring to. And Exhibit Number 5  
16 is also a map. It shows Burlington Northern track,  
17 Everett to the Canadian border, also a reduced version  
18 of a document that we have blown up that I believe  
19 witnesses will be referring to.

20 Exhibit Number 6 is a multi-page document  
21 entitled Highway-Rail Crossing Accident/Incident and  
22 Inventory Bulletin, No. 16, for calendar year 1993.  
23 Exhibit Number 7 is a form entitled Highway Grade  
24 Crossing Inspection Report. Exhibit Number 8 is a  
25 resolution by the Washington state Transportation

1 Commission, Resolution Number 445.

2 Exhibit Number 9 is a photocopy of one page  
3 of Chapter 47.79 RCW, and then we've identified as  
4 Exhibit Number 10 the aerial photograph of the  
5 Ferndale area showing the Thornton Road crossing and I  
6 believe a section of Interstate 5 there.

7 Do the parties stipulate to the admission  
8 of all the exhibits including Number 10? Ms. Cushman?

9 (Marked Exhibits Nos. 1 through 10.)

10 MS. CUSHMAN: Yes.

11 JUDGE ANDERL: For the city?

12 MR. CUIILLIER: Yes.

13 JUDGE ANDERL: Okay. For Commission staff?

14 MS. RENDAHL: Yes, your Honor.

15 JUDGE ANDERL: And Amtrak has no objection  
16 either?

17 MR. CLARK: No.

18 JUDGE ANDERL: Okay. Thank you. All  
19 Exhibits 1 through 10 will be admitted as identified  
20 and we will be getting a small version of Exhibit  
21 Number 10 for the official file.

22 As I said, we are going to take a witness  
23 out of order and, Ms. Rendahl, do you want to go ahead  
24 with that?

25 (Admitted Exhibits Nos. 1 through 10.)

1 MS. RENDAHL: Yes, your Honor. I would  
2 like to call Mr. Allen Dickson to the stand and I  
3 would also like to distribute several exhibits  
4 beforehand.

5 JUDGE ANDERL: Okay. While Mr. Dickson  
6 takes the stand, we will identify those exhibits.  
7 I'll mark for identification as Exhibit Number 11 a  
8 packet which includes some color photographs and an  
9 affidavit of publication.

10 (Marked Exhibit No. 11.)

11 Mr. Dickson, if you raise your right hand.  
12 Whereupon,

13 ALLEN DICKSON,  
14 having been first duly sworn, was called as a witness  
15 herein and was examined and testified as follows:

16 JUDGE ANDERL: Go ahead, Ms. Rendahl.

17

18 DIRECT EXAMINATION

19 BY MS. RENDAHL:

20 Q. Mr. Dickson, would you please state your  
21 full name and business address, spelling your last  
22 name for the reporter.

23 A. Allen Dickson, D I C K S O N. 2500 Elm  
24 Street, Suite B, in Bellingham, zip 98225.

25 Q. Who is your employer?

1           A.       I'm employed by the Washington Utilities  
2 and Transportation Commission as a motor carrier law  
3 enforcement investigator grade 2.

4           Q.       How long have you worked for the  
5 Commission?

6           A.       Over 17 years.

7           Q.       What generally are your responsibilities as  
8 a motor carrier law enforcement investigator 2?

9           A.       Generally we work with the transportation  
10 industry regulating motor carriers, buses, limousines,  
11 on the areas of safety and economic enforcement and  
12 patrol.

13          Q.       Did you have occasion as an investigator to  
14 post a notice of this hearing?

15          A.       Yes, I did.

16          Q.       Would you please tell us where and when you  
17 posted this notice.

18          A.       On September 21 in the afternoon copies of  
19 the railroad hearing Docket Number TR-940330 were  
20 posted on the crossbucks, the railroad crossbuck at  
21 the Thornton Road main line BN crossing. They were  
22 taped on the -- both sides of the crossing, on the  
23 east and west side.

24                   MS. RENDAHL: Your Honor, I'm going to  
25 approach the witness to hand him a copy of the



1 exhibit.

2 Q. (Handing.) You have before you a copy of  
3 what's been marked as Exhibit 11 for identification.  
4 Could you please identify the documents in Exhibit 11,  
5 what's been marked as Exhibit 11.

6 A. Yes. The photograph is of the actual  
7 crossbuck with the hearing notice attached right below  
8 the "2 tracks" sign there, and it shows both the  
9 uphill side and the downhill, east and west part of  
10 the crossing there of the Thornton Road.

11 Q. And the second and third pages, could you  
12 identify those as well.

13 A. On the 26th and 27th of September I went to  
14 the local newspapers in this area that served Whatcom  
15 County, those being The Westside Record-Journal in  
16 Ferndale and a notice of public hearing was posted in  
17 their legal section there which ran on the 5th of  
18 October and the affidavit of publication is signed  
19 there by their clerk. That is the second one.

20 The Bellingham Herald was also notified of  
21 the same hearing and they posted a public notice  
22 hearing that ran on October 8th, and their affidavit  
23 is the third page there signed by Gail Kihn.

24 Q. Looking at the first page of what's been  
25 marked as Exhibit 11, did you take these photographs

1 yourself?

2 A. Yes, I did.

3 Q. And is this a true and correct depiction of  
4 what you would see if you were at that crossing today?

5 A. Yes, it is.

6 MS. RENDAHL: Your Honor, I move admission  
7 of Exhibit 11.

8 JUDGE ANDERL: Is there any objection from  
9 any party?

10 MS. GIBSON: No objection.

11 MR. CUIILLIER: Could I question the witness  
12 just a minute about this?

13 JUDGE ANDERL: Yes.

14

15 CROSS-EXAMINATION

16 BY MR. CUIILLIER:

17 Q. Mr. Dickson, did you take more than two  
18 photos, because looking at these two, they look --  
19 they appear to be both looking eastward. They appear  
20 to be identical as far as the details in the photos.  
21 Both photos appear to have the same identical details  
22 on them.

23 A. Yes, I did take additional photos. Now, if  
24 you look at the top photo there, on the left-hand  
25 side, very far corner of that photo there's a for sale

1 -- what that is is a for sale sign. That's looking  
2 down the hill. And in the left portion there is kind  
3 of an open field, an open field, vacant lot.

4 The bottom one looks substantially the  
5 same, but there is none of that for sale sign, and it  
6 is in fact looking up the hill, looking west. They  
7 are different photos.

8 Q. I don't think it matters. I was just  
9 thinking your bottom photo appears to be identical  
10 except that it's moved over so that the for sale sign  
11 isn't showing on the left, but --

12 A. If you like, you can look at the originals  
13 here and I can point out --

14 Q. That doesn't matter. I was curious also,  
15 do you always post these notices so that people can't  
16 tell where the hearing is or the time and the place of  
17 the hearing by taping them both bottom and top with  
18 the last two pages behind the first one?

19 A. Well, in this case, in order to sustain  
20 the weather and wind, I taped them securely, and it  
21 was felt that persons having an interest in the time  
22 and date and place would be able to peel that off and  
23 read it.

24 Now, in addition, I might add that the two  
25 local residents in that area, the Gloria and Percy

1 Hanowells located at 1979 Thornton Road and the David  
2 Bocker family at 1980 Thornton Road, were hand served  
3 a copy of this order and were so advised of the  
4 hearing today.

5 Q. It's normal practice to tape them that way  
6 so people would have to cut the tape off the bottom  
7 rather than one under the other like so they could --

8 A. Yes, it is.

9 MR. CUILLIER: Okay, thank you.

10 JUDGE ANDERL: Any objection, then, to  
11 Exhibit Number 11? Hearing none, it will be admitted  
12 as identified. Although, I do want to say that on the  
13 original it is clearly a picture of the same stop  
14 sign. And that one is just simply moved further to  
15 the right than the other. You can see that there's  
16 graffiti on the stop sign in the original, that it  
17 seems to be that both photos are taken from the same  
18 side of the tracks and --

19 (Admitted Exhibit No. 11.)

20 MS. RENDAHL: I'll look at that and  
21 introduce a copy of another view if in fact that's the  
22 case, and I will apologize, your Honor, and will  
23 rectify that for the record.

24 JUDGE ANDERL: Did that conclude --

25 MS. RENDAHL: That's all I have, your

1 Honor.

2 JUDGE ANDERL: Is there any cross of this  
3 witness, Ms. Gibson?

4 MS. GIBSON: No. I have nothing.

5 JUDGE ANDERL: Ms. Cushman?

6 MS. CUSHMAN: No.

7 JUDGE ANDERL: Mr. Cuillier?

8 MR. CUILLIER: No.

9 JUDGE ANDERL: Thank you, Mr. Dickson, for  
10 your testimony. You may step down.

11 Let's go to the presentation of the  
12 petitioners' direct case then, Ms. Gibson.

13 MS. GIBSON: Yes. We'll call Wayne Hatton.  
14 Mr. Hatton, will you approach the stand, the chair  
15 here.

16 JUDGE ANDERL: Go ahead and take a seat.  
17 Raise your right hand to be sworn.  
18 Whereupon,

19 WAYNE HATTON,  
20 having been first duly sworn, was called as a witness  
21 herein and was examined and testified as follows:

22

23 DIRECT EXAMINATION

24 BY MS. GIBSON:

25 Q. Would you say your full name, please, for the

1 record.

2 A. My name is Wayne Hatton, H A T T O N.

3 Q. Mr. Hatton, by whom are you employed?

4 A. I'm employed by Burlington Northern  
5 Railroad Company.

6 Q. What is your position?

7 A. I'm VP of transportation for the system.

8 Q. What other positions have you held at  
9 Burlington Northern?

10 A. Over a period of some 30 years I've been in  
11 the operating department of the railroad, trainmaster,  
12 superintendent, assistant vice president, regional  
13 vice president, VP of transportation.

14 Q. When did you become involved in this rail  
15 passenger demonstration project that ultimately is  
16 proposed to run through the city of Ferndale?

17 A. Approximately two years ago.

18 Q. Can you explain to the administrative law  
19 judge what the demonstration project is? Would it  
20 help you to use what's been admitted as Exhibit 5?

21 A. Certainly.

22 Q. We could move this over here so we can see  
23 it better.

24 JUDGE ANDERL: Mr. Hatton, when you do  
25 refer to that exhibit and you point at a place, if you

1 can also describe orally what part of the exhibit  
2 you're pointing at so that it's clear for subsequent  
3 review of the record.

4 THE WITNESS: Certainly.

5 Q. Mr. Hatton, if you stand on this side, then  
6 the judge will be able to see what it is you're  
7 pointing to.

8 Would you describe then what the project  
9 is, please.

10 A. Certainly. In 1992 the Federal Railway  
11 Administration designated what is called -- considered  
12 to be a high speed rail corridor between Eugene,  
13 Oregon and Vancouver, British Columbia. A segment of  
14 that corridor is the trackage that extends essentially  
15 from Seattle, Washington to Vancouver which is -- a  
16 portion of which is shown here on Exhibit 5.

17 Exhibit 5 depicts the portion of trackage  
18 -- Burlington Northern-owned trackage that runs from  
19 Everett, Washington, which is at the bottom, near the  
20 bottom of the exhibit, northward up to the  
21 international border at Blaine. As I mentioned, this  
22 is a portion of that high speed rail corridor. From  
23 Seattle to Vancouver, British Columbia is  
24 approximately 150 miles, 28 miles of which are in  
25 Canada.

1                   What you see here, as I mentioned before,  
2    though, is from Everett to the border, and of course  
3    what we're talking about today is Ferndale, which is  
4    right near the northerly -- just south of Blaine on  
5    Exhibit 5.

6                   Basically what this project is all about is  
7    to operate an Amtrak passenger train from Seattle to  
8    Vancouver, British Columbia at a designated time  
9    schedule of no more than three hours and fifty-five  
10   minutes. To accomplish that, there has to be some  
11   improvements made to the physical plant. Improvements  
12   in the track condition, new rail, improvements in the  
13   signaling system, improvements being made in crossing  
14   protection devices. This results in increased speeds  
15   for passenger trains.

16                  As I mentioned before, it is essential that  
17   we run the train in three hours and fifty-five minutes  
18   from Seattle to Vancouver. To accomplish this  
19   project, Burlington Northern, Amtrak, and the state of  
20   Washington transportation department entered into an  
21   agreement which provides initially a \$27 million  
22   expenditure of monies that will be spent on this  
23   corridor between Seattle and Vancouver, British  
24   Columbia.

25                  What we're talking about here today is a



1 portion of the improvements that need to be made to  
2 accomplish the objectives that I've talked about  
3 earlier and, of course, it includes speed increases,  
4 sidings, and in certain cases as we have here today, a  
5 petition for the closure of some crossings.

6 Q. Are such improvements being requested at  
7 locations other than Ferndale?

8 A. Yes. There are improvements being made  
9 along the entire corridor.

10 Q. All right. You may resume your seat.  
11 Thank you.

12 To your knowledge, has Amtrak ever operated  
13 on this line before providing passenger service?

14 A. Yes. Amtrak operated here until October of  
15 1981 when the train was taken off.

16 Q. Do you know why it was taken off, what  
17 happened to it?

18 A. It is my understanding that the economics  
19 simply did not support the expense of continued  
20 operation of the train.

21 Q. You mention the three hour and fifty-five  
22 minute figure. Is that part of the economics of the  
23 operation?

24 A. For any passenger train to be viable, there  
25 has to be a service that is attractive to the public,

1 and experience has shown that as with the previous  
2 passenger operation which I recall was in the  
3 neighborhood of four hours thirty minutes, that it was  
4 simply not competitive with the other modes of  
5 transportation that traverse this corridor, so it was  
6 determined that an absolute minimum of three hours and  
7 fifty-five minutes was needed to support an operation  
8 of this type.

9 Q. Is the current demonstration rail project  
10 part of a national drive to increase passenger train  
11 service?

12 A. Yes.

13 Q. How does this project fit into that  
14 national drive?

15 A. Well, this train will connect with other  
16 transcontinental Amtrak trains as well as regional  
17 trains, and this is simply one component of a national  
18 network that will support the entire effort being put  
19 forth by Amtrak.

20 Q. What is Burlington Northern's position on  
21 the project?

22 A. Burlington Northern is committed to make it  
23 work. We are cooperating fully with Amtrak,  
24 Washington DOT, and we are committed to see it through  
25 to completion.

1 Q. Let's talk about the freight train traffic  
2 for a minute. Are you familiar with the numbers of  
3 rail cars that are shipped on this line?

4 A. Yes.

5 Q. And on an annual basis?

6 A. In 1993 there was approximately 160,000  
7 cars that moved through the city of Ferndale in terms  
8 of freight business. Our business is increasing in  
9 this part of our railroad. We are experiencing  
10 increases between 15 and 20 percent range in terms of  
11 freight business on this corridor.

12 Q. Is this line considered to be one of BN's  
13 main lines?

14 A. Yes.

15 Q. And the business that you just referred to  
16 on an annual basis, does that constitute a significant  
17 portion of Burlington Northern's northwest business?

18 A. It's a very significant portion of  
19 Burlington Northern's Pacific Northwest business. In  
20 this region we have only one other main line that  
21 handles more business than -- right now than what this  
22 line is handling.

23 Q. Those cars that move through this line, the  
24 rail cars, does that include shipments that are  
25 carried interstate commerce across state borders?

1           A.       Yes.    The shipments travel nationwide.

2           Q.       Could you explain the relationship between  
3 Burlington Northern and Amtrak, particularly in this  
4 kind of situation where passenger service would be  
5 operated?  Start with who owns the tracks.

6           A.       Burlington Northern owns the track.  We  
7 have a contract, as do other railroads in the United  
8 States, with Amtrak to accommodate the operation of  
9 their passenger trains, and basically Burlington  
10 Northern provides a route, provides a level of utility  
11 to operate that train on a defined schedule.  It is a  
12 formalized contract.  Amtrak reimburses Burlington  
13 Northern for costs that are incurred for the operation  
14 of said trains.

15          Q.       Okay.  I would like you to address now the  
16 specific changes that are requested at Ferndale.  
17 First of all, is there a request being made for any  
18 increase in freight train speeds?

19          A.       No.  No increase in freight train speeds.

20          Q.       In order to explain these, would it assist  
21 you to use the Ferndale map, Exhibit Number 4?

22          A.       Yes.

23          Q.       Let me move that over to the easel.

24                    Now, would you indicate where passenger  
25 train speed increases are requested and what that

1 specific request is?

2 A. Well, within the city of Ferndale I'll be  
3 referring to milepost numbers as a matter of  
4 reference. If we look at Exhibit -- what was it, 4?

5 Q. Four, yes.

6 A. You'll see milepost 105 near the bottom,  
7 just near Hovander Road, and as you move northward on  
8 the rail line you'll see the milepost 106, 107 on  
9 through to 108.7 up at Brown Road. The specific order  
10 requests an increase in speed from 105.1 to 105.8,  
11 which is basically coming into Ferndale from the  
12 south, to 70 miles an hour. Then there is a curve  
13 just after crossing the river where trains are  
14 restricted to 45 miles an hour. Then after coming  
15 around that curve at milepost 106.2 to 107.8 within  
16 the city limits of Ferndale, which is basically then  
17 tangent trackage, the request is for 79 miles an hour.

18 Q. Now, is Thornton Road closure also included  
19 in the request?

20 A. Yes, it is.

21 Q. And why is that necessary?

22 A. Part of the proposal, as has been discussed  
23 here earlier today, is to provide an extended and  
24 improved siding for the meeting and passing of trains.  
25 There is a siding at Ferndale and it's proposed to

1 extend that siding and there will be trains, freight  
2 trains, that will occupy that siding.

3 Q. Would you indicate on Exhibit 4 where the  
4 siding is today.

5 A. The siding today begins at about 106.1 and  
6 extends northward to 108 -- excuse me -- goes to 107.4  
7 on the map. If you look northward, you see it says  
8 "107.48 remove switch." That's today's siding.

9 We are going to extend that siding 3,631  
10 feet northward up to 108.16. That is the portion of  
11 the \$27 million expenditure that I referred to  
12 earlier.

13 Q. Why is it necessary to make that extension?

14 A. The average freight train that traverses  
15 this route is approximately 7,000 feet in length, and  
16 if we're going to meet trains, we have to be able to  
17 find a place to put these trains away.

18 Q. How long is the existing extension?

19 A. The proposed --

20 Q. The existing extension.

21 A. The existing siding --

22 Q. Excuse me. I was using the wrong term.  
23 The existing siding, how long is it?

24 A. If my memory serves me correct, it's 5,800,  
25 6,000 feet, something in that range.

1 Q. It's less than the amount necessary --

2 A. Yes.

3 Q. -- to accommodate the trains?

4 A. Yes. And I might add this same thing is  
5 being done on other locations in the corridor.

6 Q. Now, why is it necessary to close Thornton  
7 Road just because you're building an extension to the  
8 siding?

9 A. The roll of the siding is changing. It is  
10 now primarily used for stored industry cars. The  
11 local trains will sometimes be there. Now we're going  
12 to have to clear the main lines, which we don't do  
13 today in a lot of cases, because there's a passenger  
14 train running, and to run that train on schedule we  
15 have to clear the main line. So we have to have a  
16 siding long enough to accommodate our -- at least our  
17 average length train that traverses this corridor.

18 Q. Now, according to the petition, there are  
19 also some upgrades in signals that are planned. Is  
20 that part of the project?

21 A. Yes. As it relates to this specific area,  
22 there is a --

23 JUDGE ANDERL: Let me just interrupt for a  
24 minute. Ms. Gibson, you referred to this and I have  
25 seen this part of the request in the file, but as I

1 read the petition for closure of Thornton Road and the  
2 notice of hearing in that matter, the upgrades are not  
3 before the Commission or before me for decision at  
4 this time. So this is just background, is that right?

5 MS. GIBSON: Yes.

6 JUDGE ANDERL: Okay. Sorry for  
7 interrupting.

8 MS. GIBSON: It's just part of the project,  
9 the overall project. It impacts on the safety aspects  
10 and ultimately the Commission's decision.

11 JUDGE ANDERL: Okay. But you don't need --

12 MS. GIBSON: -- a ruling on it per se.

13 JUDGE ANDERL: -- commission approval.

14 A. A significant portion of the expenditures  
15 will be to improve the signal system and the  
16 installation of what was referred to as a centralized  
17 traffic control system which will be installed between  
18 Bellingham and the international border which will go  
19 through Ferndale. And basically centralized traffic  
20 control provides for the remote operation of switches  
21 and signals as opposed to the manual operation, and it  
22 provides a significant improvement in safety and the  
23 handling of trains.

24 Q. Now, how do these modifications at Ferndale  
25 fit into the overall project, the total demonstration



1 passenger rail project?

2 A. The improvements that I've discussed are  
3 simply one of numerous improvements that are being  
4 made along the entire corridor to accommodate the  
5 schedule that I earlier referred to, and every one of  
6 the improvements on the corridor are absolutely  
7 essential to achieve the three hours and fifty-five  
8 minutes schedule. Absenting an improvement at one  
9 location is simply going to virtually eliminate the  
10 possibility of achieving our objective of three hours  
11 and fifty-five minutes.

12 Q. So if Thornton Road is not closed, then can  
13 the project proceed?

14 A. Our position is that all of the sidings  
15 have to be built and the closures that are proposed  
16 will have to be accomplished for this to be a  
17 successful project.

18 Q. And does that include all of the speed  
19 request increases?

20 A. Yes.

21 Q. Are you familiar with the passenger service  
22 operation of the Great Northern Railway in the 1950s  
23 on this line?

24 A. Yes.

25 Q. Generally do you know what length of time

1 they operated from Seattle to Vancouver?

2 A. The -- my recollection is that the trains  
3 operated in something less than three hours and thirty  
4 minutes over this same route.

5 Q. Are you familiar with the basic speed of  
6 Amtrak trains on Burlington Northern tracks throughout  
7 the Burlington Northern system, and that would be  
8 unless there are curves or some sort of special  
9 conditions, what's the basic speed?

10 A. The basic speed on Burlington Northern is  
11 79 miles per hour absenting restrictions. And that  
12 relates to the FRA track standards that are delineated  
13 in Exhibit -- what's been previously identified as  
14 Exhibit 3.

15 Q. And when you talk about the Burlington  
16 Northern system, what does that encompass?

17 A. Our system encompasses 25 states,  
18 approximately 25,000 miles, and we operate 16 Amtrak  
19 trains per day on our system currently.

20 Q. Those tracks on which Amtrak operates, does  
21 Burlington Northern maintain them to any particular  
22 standards?

23 A. Yes. They are maintained to the FRA  
24 classification standards earlier mentioned.

25 MS. GIBSON: All right. No further

1 questions.

2 JUDGE ANDERL: Thank you, Ms. Gibson. Any  
3 cross for this witness, Mr. Cuillier?

4 MR. CUILLIER: Briefly, your Honor.

5

6 CROSS-EXAMINATION

7 BY MR. CUILLIER:

8 Q. Mr. Hatton, who arrived at the three hour  
9 and fifty-five minute time frame for this project,  
10 this route?

11 A. The schedule determination was a joint  
12 negotiation primarily authored/chaired by Amtrak and  
13 basically they having had experience at running trains  
14 in this corridor in something more than three hours  
15 and fifty-five minutes that was less than successful,  
16 that provided the impetus for arriving at an improved  
17 time, an improved time.

18 Q. Was it pretty much Amtrak's request that  
19 that timing be the time frame required or was it --  
20 was it based, for example, on some of Amtrak's  
21 economic concerns such as having to utilize an extra  
22 crew member if it exceeds four hours?

23 A. The impetus for that decision was not  
24 directly related to an extra crew member. Amtrak is  
25 the expert in train scheduling. They had experience

1 in this corridor. It was jointly discussed, jointly  
2 agreed upon. The extra crew member is a labor  
3 agreement issue, was not the driving force in three  
4 hours and fifty-five minutes.

5 Q. Did Amtrak used to travel you say the same  
6 route in three hours and a half?

7 A. The former Great Northern Railroad prior to  
8 the advent of Amtrak. Amtrak was created in 1971.  
9 The Great Northern operated trains through Ferndale  
10 for many, many years, and there were many schedules  
11 which were less than three hours and fifty-five  
12 minutes, if not all of them.

13 Q. What were their speeds at that time, do you  
14 know?

15 A. The speeds varied. 79, 70, 60. It  
16 depended on the curvature of the track.

17 Q. So they were just either making fewer stops  
18 than presently proposed or they were going faster in  
19 some of the areas but never over 79?

20 A. They were going faster but -- I can't  
21 attest to what the maximum speeds were back in the  
22 '50s.

23 Q. Was any serious effort made to locate a  
24 place to put the siding that would not require the  
25 closure of a projected street?

1           A.       A detailed analysis was made of the entire  
2       corridor to identify ideal passing track locations,  
3       yes.

4           Q.       There's quite a bit of area to the south of  
5       Ferndale that's on straight track. Was there any  
6       effort to look at a siding there?

7           A.       The entire corridor was looked at, so the  
8       answer would be yes.

9           Q.       Do you know if there are any other viable  
10      alternatives to the present location here proposed or  
11      was that somebody else's job or determination?

12          A.       There will be another I think subsequent  
13      testimony that can talk in more detail about that  
14      issue.

15                    MS. GIBSON: You may want to address that  
16      to Marvin Nelson, Counsel.

17                    MR. CUILLIER: Okay.

18          A.       I might --

19          Q.       Yes, sir, go ahead.

20          A.       Scratch.

21                    MR. CUILLIER: That would be fine. Thank  
22      you.

23                    JUDGE ANDERL: Okay. Ms. Rendahl?

24

25

1 CROSS-EXAMINATION

2 BY MS. RENDAHL:

3 Q. I just have a clarifying question  
4 concerning the side track. Would you say that the  
5 average length of a freight car, a Burlington  
6 Northern freight car is approximately 60 feet in  
7 length?

8 A. No. I would not.

9 Q. Okay. Now, the new siding you've testified  
10 is approximately -- it's going to be approximately  
11 9,000 feet or 8,600 feet. Using a figure of about 60  
12 feet per freight car, that equals about 157 cars. Do  
13 you know what the average length of freight trains  
14 is on the Burlington Northern  
15 track in this region?

16 A. I testified earlier that the average length  
17 on this corridor is approximately 7,000 feet.

18 MS. RENDAHL: Thank you. I have no further  
19 questions.

20

21 EXAMINATION

22 BY JUDGE ANDERL:

23 Q. Okay. I have a couple of clarifying  
24 questions just for the record here on Exhibits 4 and  
25 5. On Exhibit Number 5 is the green line the

1 Burlington Northern track and the red line would  
2 perhaps be highway?

3 A. The green line is the Burlington Northern  
4 track, yes, ma'am.

5 Q. And are you the person to ask either the  
6 driving time or the driving distance between Seattle  
7 and Vancouver with an automobile or would another  
8 witness be able to answer that?

9 A. I cannot comment on the driving time. Stay  
10 within the law.

11 Q. And then again on Exhibit Number 4 -- that  
12 was the only question I had on Exhibit Number 5. On  
13 Exhibit Number 4, the generally vertical green line  
14 with the hash marks across it is the railroad tracks?

15 A. Yes, your Honor.

16 Q. Is each of those hash marks one-tenth of a  
17 mile apart, just for ease of reference?

18 A. I would say approximately.

19 Q. And the thinner green lines that parallel  
20 the heavy green line, are those siding tracks --

21 A. Yes.

22 Q. -- through the center of Ferndale?

23 A. Yes. Siding and industry tracks. We  
24 should keep in mind that we do have major customers.

25 Q. So at some point right around milepost

1 106.21 there are actually four tracks that go through  
2 Ferndale, is that correct, or is that a correct  
3 reading of this exhibit?

4 A. Yes.

5 Q. And then is it also correct that the siding  
6 track as it exists now already crosses Thornton Road?

7 A. Yes. I think I might be able to clarify  
8 there a little bit for you. The role of this passing  
9 track or siding is going to change.

10 Q. I think I understood that --

11 A. Under the current --

12 Q. -- it was going to just be blocked by  
13 freight trains, not that there would be an additional  
14 track at Thornton Road.

15 A. That's right. And it's not to be  
16 considered an indefinite blockage. It will be trains  
17 that are stopped, waiting for a passenger train to  
18 proceed, and then the freight train will proceed  
19 accordingly.

20 Q. And are you the person to ask about the way  
21 Thornton Road looks like right now in terms of does it  
22 dead-end at I-5 or --

23 MS. GIBSON: The next witness.

24 JUDGE ANDERL: The next witness. Those  
25 were all the clarifying questions I had. Is there any



1 redirect?

2 MS. GIBSON: No. I have nothing further.

3 JUDGE ANDERL: Thank you very much for your  
4 testimony.

5 MS. GIBSON: My next witness --

6 JUDGE ANDERL: Let's go off the record  
7 while you call your next witness.

8 (Discussion off the record.)

9 JUDGE ANDERL: Let's be back on the record.  
10 Mr. Cottingham, raise your right hand.

11 Whereupon,

12 KENNETH E. COTTINGHAM,  
13 having been first duly sworn, was called as a witness  
14 herein and was examined and testified as follows:

15 JUDGE ANDERL: Go ahead.

16

17 DIRECT EXAMINATION

18 BY MS. GIBSON:

19 Q. Could you state your full name for the  
20 record, please.

21 A. Kenneth E. Cottingham, C O T T I N G H A M.

22 Q. And your occupation?

23 A. Consulting transportation engineer.

24 Q. And do you have your own firm, Mr.  
25 Cottingham?

1           A.     Yes.   Cottingham Transportation  
2   Engineering.

3           Q.     How long have you been employed in that  
4   firm?

5           A.     That firm was formed in April of 1980, so  
6   that would be, what, 14 years this year.

7           Q.     Can you tell us what your prior employment  
8   experience has been.

9           A.     Prior to that time I was an out-of-school  
10   associate traffic engineer for the City of Seattle.  
11   Followed by eight years with the Washington State  
12   Department of Highways as a district traffic engineer  
13   in District 7 on all freeway and city street matters.  
14   Followed by consulting engineer with Engineered  
15   Industrial Systems, a consulting firm, doing  
16   transportation engineering for communities in  
17   Washington, Oregon, Idaho, Montana, Alaska, for five  
18   years.  Thence with Stevens, Thompson & Runyan, a  
19   consulting firm out of Portland, Oregon, doing work in  
20   the same area as this county/city traffic engineering,  
21   in the same states as well as California, Maryland,  
22   Illinois, as well as Alaska, Idaho, Montana,  
23   Washington, and Oregon.

24          Q.     Do you have an engineering degree?

25          A.     Yes.

1 Q. And where is that from?

2 A. I have a degree in engineering from the  
3 University of Washington and I'm a licensed  
4 professional engineer in Washington, Oregon, and  
5 California.

6 Q. You've been retained by Burlington Northern  
7 in this matter, is that right?

8 A. Yes.

9 Q. And did you investigate the general  
10 Ferndale area at my request?

11 A. Yes, I did.

12 Q. When did you do that initially?

13 A. Specifically for this project it was a week  
14 ago Monday. That would be, what, October 3, I  
15 believe.

16 Q. How did you go about making your  
17 investigation?

18 A. Being somewhat familiar with the area,  
19 having worked in Whatcom County and in Bellingham on  
20 other traffic matter, I wanted to look specifically at  
21 all of the grade crossings, the grade separations, the  
22 interchanges of I-5, where the track fell in relation  
23 to those interchanges, and specifically all of the  
24 city street/arterial system that would connect to  
25 either an overpass, a grade crossing, or an

1 interchange. So I took the evening of that Monday and  
2 looked at all of the streets, the community abutting  
3 to these arterials and access roads, the schools, the  
4 middle schools, the elementary schools, the high  
5 schools. I had maps with me as well as a file with me  
6 to assist in locating certain items, and I also drove  
7 through the county abutting the city of Ferndale.

8 Q. Using Exhibit 4, could you point out where  
9 you found the schools?

10 A. Yes. Three basic schools. At the  
11 intersection of Vista Road and Thornton Road we have  
12 in the southwest quadrant two schools. We have the  
13 elementary school, Skyline, I believe it is, and then  
14 there's the middle school just south of that. On  
15 the high school we have the running track shown with  
16 the oval I'm pointing to on the west side of the  
17 tracks abutting the track of the Burlington Northern  
18 with a grandstand and a fenced area of a play field,  
19 and that's the Ferndale High School. Just north of  
20 that running track are two additional fields that are  
21 multipurpose, primarily soccer, but baseball is up in  
22 that area also.

23 Q. All right. Did you also examine all of the  
24 crossings in the area, grade crossings?

25 A. Yes.

1 Q. Would you point out where those are.

2 A. There's five crossings -- pardon me. Let's  
3 go with the grade crossings first. Grade crossings of  
4 the track occur at Washington Street, Second, and at  
5 Thornton. Grade separations of city streets would be  
6 at the Axton Road, Main Street, Slater Road.  
7 Actually, Slater is down further, almost off of this  
8 exhibit, I believe. Portal Way is a grade separation  
9 at the interchange of I-5. Then just off the map,  
10 Exhibit 3, to the north is Grandview. Grandview  
11 obviously is just north of the city, which is the  
12 yellow part of this exhibit, and it's a full  
13 interchange with an east-west road.

14 Other roads that are named on here are  
15 Brown Road, which has a grade separation -- excuse me  
16 -- a grade crossing, but not interchange with I-5.  
17 And where I'm pointing on Brown Road on the Burlington  
18 Northern track. I'm pointing to Thornton which is  
19 a grade crossing, and then Washington, and Second.

20 Q. Is there a crossing at Hovander as well?

21 A. Down at the lower end is Hovander Road, and  
22 there's a grade crossing at grade, not a separation.  
23 So how many does that make? If you take Hovander,  
24 Second, Washington, Thornton, there's four, and  
25 outside of the city then would be Brown.

1 Q. And Grandview?

2 A. And Grandview. And those are north of the  
3 city limits, yes.

4 JUDGE ANDERL: Just for clarification,  
5 while we're at this point in the exhibit, what about  
6 First Avenue?

7 THE WITNESS: No. Second, yes, but I can  
8 see that there's lines drawn there but there's not a  
9 grade crossing.

10 JUDGE ANDERL: Thank you.

11 Q. In particular, did you examine the  
12 Washington Street crossing?

13 A. Yes.

14 Q. And what did you find there?

15 A. Washington, I'm pointing to it over here,  
16 is an east-west crossing, grade crossing. Washington  
17 is over four lanes wide and it has presently traffic  
18 control devices for the grade crossing and is a  
19 relatively level crossing. Washington also connects  
20 from the west end at the arterial Vista Road and it  
21 crosses over a grade crossing to the east side and  
22 thence to a jog gets to Portal Way, the interchange of  
23 I-5.

24 Q. Could you describe what you found at the  
25 Thornton Road crossing?

1           A.       Thornton is two-lane two-way grade  
2 crossing. Crossbucks and stop signs protect it. As  
3 one would be eastbound over the grade crossing,  
4 there's then a dead-end sign just before you got to  
5 this point that takes you down to --

6           Q.       Just before the crossing?

7           A.       Just before the crossing -- a couple  
8 hundred feet before crossing -- actually, it's about  
9 500 feet before the crossing. Just off -- as you turn  
10 off of Malloy Drive and go east, you would see the  
11 dead-end sign, then come to the crossing, and then the  
12 road pavement end where I'm pointing, as it makes a  
13 right turn to go south into a gravel access road, and  
14 then it doesn't even have a built turnaround, but one  
15 can turn a small car around in that area.

16          Q.       And for the record, where you're pointing  
17 is on Exhibit 4 and you're indicating a line that  
18 projects south parallel with I-5. Where that line  
19 projects going to the south, what is that? What does  
20 that represent?

21          A.       That's -- this small line I'm pointing with  
22 my finger is just a gravel access road of about 13 to  
23 14 feet wide.

24                   JUDGE ANDERL: Is that the black line?

25                   MS. GIBSON: Yes.

1 THE WITNESS: Yes.

2 MS. GIBSON: That thin black line going  
3 south from Thornton.

4 Q. Are you familiar with the driving time  
5 between Seattle and Vancouver, B.C.?

6 A. Yes.

7 Q. What is it?

8 A. Present driving time could be considered  
9 three and one-half hours, three hours and thirty  
10 minutes.

11 Q. Now, you've heard the testimony of Mr.  
12 Hatton regarding Burlington Northern and Amtrak's  
13 plans to extend the siding and operate passenger  
14 trains on that main line together with freight trains?

15 A. Yes.

16 Q. Do you see any potential for traffic  
17 problems if the Thornton Road crossing remains open  
18 and Amtrak were to be reinitiated?

19 A. Yes.

20 Q. What would that be?

21 A. One basic problem that couldn't be overcome  
22 would be the fact that the siding would be used for  
23 storing cars while Amtrak went through on the main  
24 line track. That train would block Thornton.

25 Q. The freight train?



1           A.       The freight train would be pulled off on  
2 the siding and the length of, oh, 7,000 feet would  
3 block because there isn't enough storage on that  
4 siding without closing Thornton. So Thornton would  
5 have to be closed by a blocked train, waiting for  
6 Amtrak to go through, and then it would be open again.  
7 So there would be long periods of time of closure.

8           Q.       What if the freight train crews separated  
9 the train so part of the freight train was on one side  
10 of the Thornton Road crossing and part of it was on  
11 the other side? Would that create any problems in  
12 your opinion?

13          A.       That can be done. Separating a train to  
14 give an opening through for Thornton to cross as a  
15 grade crossing then creates the problem of the limited  
16 sight distance that you have for those cars using  
17 Thornton. They must creep out and look past a train  
18 that's been separated. And even if that train is  
19 separated with enough distance to provide sight  
20 distance, you're looking at 79 mile per hour  
21 approaching trains. A driver when he first sees a 79  
22 mile per hour train cannot judge the position nor the  
23 speed, and this is especially true at night. It  
24 creates a very hazardous condition looking around a  
25 separated train of this type.

1 Q. Would you see that this situation would  
2 create any problems for the schools in the area or  
3 not?

4 A. It would create a problem in that the  
5 school traffic from particularly the high school that  
6 I'm pointing to here, the Ferndale High School, in  
7 their driving around, kids would go through that  
8 crossing because it accesses across the tracks into  
9 the possible access road connection on the other side  
10 of the tracks and between the tracks and the I-5  
11 freeway.

12 Q. Mr. Cottingham, did you also assess the  
13 adequacy of the freeway interchanges for Ferndale?

14 A. Yes, I did.

15 Q. And which interchanges are those? Could  
16 you identify them?

17 A. Basically from a transportation view, there  
18 are four interchanges. There's Slater Road, the Axton  
19 Road/Main Street, and we'll just call it the Main  
20 Street interchange, then the Portal Way interchange  
21 and the Grandview interchange. The two close ones  
22 that are about a mile apart are the Axton and the  
23 Portal Way. They are at the minimum distance you want  
24 interchanges on the interstate highway system, one  
25 mile. They are very adequate for now. They have been

1 opened nearly 30 years now. There are little or no  
2 traffic problems associated because they are not near  
3 the capacity of the interchange. The ramps, of  
4 course, have a high capacity, but the interchange  
5 itself, the turning movements and the through street,  
6 have excess capacity. It appears that even after 30  
7 years of opening and the present growth of traffic in  
8 the area, easily there's 20 years' more life before  
9 any widening or additional separations would have to  
10 be done to carry east-west traffic or interchange  
11 traffic, and I say that because I looked up the last  
12 five years of the interstate highway traffic at a  
13 permanent traffic recording counter just north of here  
14 at milepost 269, and for your purposes here, Portal  
15 Way is milepost  
16 263, so just 269 up here the traffic has been  
17 increasing at only 2.4 percent per year for the last  
18 five years. Even compounding that, it's only a 12.8  
19 increase over a five-year period altogether for a  
20 full five years, so it looks like with the state  
21 average increase in traffic being 4 to 5 percent, that  
22 this traffic is indeed only increasing at about half  
23 that rate on the interstate system and that these  
24 changes should be adequate for well into the year  
25 probably 2015 or 2020.

1           Q.       Now, on Exhibit 4, we have a little pink  
2       tab that says Slater Road at the very bottom of the  
3       exhibit. In actuality, do you know how many miles  
4       that Slater Road interchange is from the Axton/Main  
5       Street interchange?

6           A.       Let me take a quick look at this because --  
7       the official 1994 highway map from the Department of  
8       Transportation does give that mileposting to the  
9       nearest mile. (Reading.) And that appears to be not  
10      listed on the map. Sorry about that.

11          Q.       Do you recall how far north --

12          A.       It's about three miles, my recollection.  
13      And I went through there this morning looking at the  
14      mileposts that were listed on the route and it's  
15      milepost 260. The Main Street is 262, so it is  
16      actually listed on the highway signs as two miles  
17      south of the Main Street interchange.

18          Q.       And Grandview is how many miles north of  
19      Portal?

20          A.       Grandview is just three miles north of the  
21      Portal Way. And the spread of my hands is about a  
22      mile, so you could say, one, two, and then three would  
23      be right -- I'm holding the pointer probably where  
24      Grandview is. Grandview is an east-west road right in  
25      this area here parallel to Brown Road, so it's three

1 miles north of Portal Way.

2 JUDGE ANDERL: So about a half a mile north  
3 off the map?

4 THE WITNESS: Yes.

5 Q. Mr. Cottingham, when you drove through the  
6 town and the surroundings, did you drive on Main  
7 Street in the vicinity of the interchange at Main and  
8 Axton?

9 A. Yes, I did.

10 Q. Now, if someone from the City of Ferndale  
11 were to tell you that they had counted 15,000 cars  
12 average daily traffic volume on Main Street in the  
13 vicinity of the interchange, from a traffic  
14 engineering perspective would that be considered high,  
15 moderate, slight, or what?

16 A. From my knowledge of Main Street, that  
17 would be a high count for Main. But you could find  
18 that traffic on a specific day that might be a  
19 weekend, a celebration, or something out at the  
20 outlying that would attract people in vacationing  
21 mode, but 15,000 is not a high traffic volume for an  
22 arterial. You usually consider that to be a two-lane  
23 traffic volume, 15,000. One lane each way. And  
24 30,000 could be considered four lane. Then, of course,  
25 as we put traffic signals in and parking and

1 pedestrians, it alters these figures considerably.

2 Q. Is there any way to increase the capacity  
3 of the existing interchanges for the town?

4 A. Yes. These two basic interchanges a mile  
5 apart, the Portal Way and the Main Street, are just  
6 the way they were built originally. There's been no  
7 attempt to improve capacity since there's no capacity  
8 problem there, but simple traffic engineering  
9 improvements can be done that would probably increase  
10 30 to 50 percent the capacity of turning movements and  
11 through east-west traffic without, and I should say  
12 without, adding structures or without adding an  
13 immense signal system either, just simple traffic  
14 engineering features.

15 Q. Generally is there funding available to  
16 cities to do these kinds of changes?

17 A. Yes. Particularly with an interchange of  
18 the interstate there's interstate money on a 90/10  
19 basis, 90 federal and 10 local, for some improvements  
20 in capacity when it becomes a problem. And then  
21 there's the local gas tax funds, too, directly passed  
22 through the state to the city for traffic engineering  
23 improvements, traffic control devices, and all other  
24 what we call minor improvements. Then there's an  
25 addition, there's the Urban Arterial Board, now known

1 as the TIPS, T I P, program which gives federal money  
2 directly to the cities for more major improvements.

3 Q. We've talked about the adequacy of the  
4 freeway interchanges in this town, but have you also  
5 considered the adequacy of the townspeople's access to  
6 those interchanges, in other words, how they get from  
7 their homes and businesses over to the freeway  
8 interchanges? Did you consider that?

9 A. Yes.

10 Q. And what kinds of things did you consider?

11 A. Adequacy of the city street system to  
12 handle the traffic distribution to and from the  
13 freeway as well as crossing over and under the  
14 freeway.

15 Q. What was your assumption as to where the  
16 growth is for this town of Ferndale?

17 A. And I've assumed that the present growth as  
18 evident will continue to the north and to the west.

19 Q. And you're indicating on Exhibit 4 the area  
20 north and west immediately of Thornton Road?

21 A. Yes.

22 Q. What kind of development did you see when  
23 you drove through that area to the north and west of  
24 Thornton?

25 A. Moderate to expensive residential.

1 Particularly along Vista Drive and all the way out to  
2 Brown Road and Grandview there are many homes being  
3 built. Many have been built. Some rather expensive  
4 homes and developments in the area. And with the  
5 school system here in the southwest corner of Vista  
6 and Thornton, the attraction for families that have  
7 children is clearly evident. And well-kept homes.  
8 Even some along Thornton being, between Vista and  
9 Malloy, more modest homes, but then west of Vista more  
10 expensive homes.

11 Q. What is the most direct access for those  
12 residents to Interstate 5?

13 A. Vista. If you're going north on the  
14 freeway you can take Vista north to the Grandview  
15 interchange. If you want to pick up something at a  
16 grocery store, go downtown, you can come down Vista to  
17 Washington Street, cross right over the tracks of the  
18 grade crossing, and go into the Portal Way interchange  
19 or continue on Vista past the Malloy intersection into  
20 the downtown area. And of course you can then come  
21 off the downtown area and take the Axton/Main Street  
22 interchange to either go north or south. There's one  
23 problem here at Malloy and Vista. That intersection  
24 needs a traffic engineering analysis to handle traffic  
25 safely.



1 Q. When you say traffic engineering analysis,  
2 can you say more specifically what needs to be done  
3 there?

4 A. Yes. Most engineers would say you need to  
5 buttonhook Malloy into Vista, and it's a three  
6 intersections right now. There's three roads in  
7 there. And the way it's handled now is that the Vista  
8 people have to look too far to the right for  
9 approaching traffic to feel safe entering the  
10 intersection, and the capacity of that intersection is  
11 greatly reduced because of the present channelization,  
12 the geometrics of that intersection.

13 Q. To your knowledge, has the city done a  
14 traffic engineering study to try to improve that  
15 intersection?

16 A. I don't know of any traffic engineering  
17 study that's been done.

18 Q. Now, if that intersection at Vista and  
19 Malloy were improved, how would that affect the  
20 townspeople living in the north and west of the town?  
21 How would it affect their access to Interstate 5?

22 A. It helps in two ways. Beginning, let's say,  
23 at the intersection of Thornton and Vista and to  
24 another limited extent Malloy at Thornton, I'm  
25 pointing on the map. As they come down to this, let's

1 say, improved intersection of Vista and Malloy, it's  
2 just a short couple blocks to Washington Street.  
3 Washington then is an east-west arterial that bypasses  
4 the downtown.

5 Q. Is that crossing signalized there at  
6 Washington?

7 A. It's a grade crossing of the tracks, a  
8 grade crossing that will be upgraded under the  
9 proposed plan, and allows traffic to get over to  
10 Portal Way and then use the Portal Way interchange.  
11 Allows traffic to bypass the downtown by connecting  
12 into the Portal Way to get north without using the  
13 interchange. And to go south, Vista can come through  
14 and connect to the Main Street/Axton Road interchange  
15 to go south. So that Washington Street in its present  
16 four-lane plus configuration doesn't need anymore  
17 widening, but a little improvement in the grade  
18 crossing, signals, and the planking would assist it in  
19 being a good bypass road.

20 Q. Are there funds available to cities to  
21 undertake some projects as modifying this Vista/Malloy  
22 intersection?

23 A. Yes. The cities are eligible for what's  
24 called pass-through money from the federal and state  
25 and, of course, they are always eligible for their

1 share of the gas tax funds which they get annually.

2 Q. Do you have an opinion as to the adequacy  
3 of the crossings for serving the town of Ferndale if  
4 Thornton Road is closed?

5 A. Yes.

6 Q. And what is that opinion?

7 A. Thornton Road serves practically no traffic  
8 now. It is a dead end. The only traffic I've ever  
9 seen on the few visits I've been there have been  
10 persons like myself looking to find the place. I  
11 haven't seen anything -- anyone coming out of any of  
12 the businesses there, but there is a business on the  
13 northwest quadrant, but with the closure of that  
14 crossing, he just simply goes out the way he goes out  
15 now. He goes out to Thornton at Malloy and south or  
16 north or to Vista and goes south or north. The  
17 closure of Thornton will have no effect on any  
18 east-west traffic whatsoever as it stands today.

19 Q. And are there an adequate number of  
20 crossings to serve the city?

21 A. Yes.

22 Q. Other crossings?

23 A. There's enough crossings in this area to  
24 serve well into the future. At least a 20 year that  
25 we can see ahead.

1 MS. GIBSON: No other questions.

2 JUDGE ANDERL: Okay. Any cross for this  
3 witness from the city?

4 MR. CUIILLIER: Thank you, your Honor.

5

6 CROSS-EXAMINATION

7 BY MR. CUIILLIER:

8 Q. Say, Mr. Cottingham, that there are enough  
9 crossings for Ferndale or enough ways to get to the  
10 freeway for Ferndale for the next 20 years, what  
11 population projection do you base that on for Ferndale  
12 in 20 years?

13 A. I have to admit that I'm lacking a  
14 comprehensive plan that would give me the future  
15 population and a future traffic plan. All I can do is  
16 look at the normal growth patterns that I see for the  
17 last five years on the interstate, they are the only  
18 recorded increases we see, at the 2.4 percent.

19 Q. Yes, and when you arrived at that  
20 percentage, that's in a location north of Ferndale as  
21 opposed to within Ferndale or between Ferndale and  
22 Bellingham, correct?

23 A. Oh, yes. It's a permanent traffic  
24 recording counter at milepost 269 with the Portal Way  
25 being, what, 263, so it's just six miles north, but

1 being on the interstate system, you'll find very  
2 little change in 10 to 15 miles of traffic volume on  
3 the interstate.

4 Q. Except that perhaps you could find a city  
5 growing faster than the traffic on an interchange and  
6 the city residents traversing the freeway towards the  
7 major city in the county, Bellingham, as opposed to  
8 where you took the traffic count possibly, right?

9 A. Yes, I would have to agree with you.

10 Q. The city could be growing faster than that  
11 rate?

12 A. Yes. The city could have east-west traffic  
13 that is not in any way reflected to the north-south  
14 traffic. Quite true.

15 Q. And would you agree generally -- you stated  
16 that you looked at the high school area, right, and  
17 you noticed that there are some fields there where  
18 students play baseball and soccer --

19 A. Yes.

20 Q. -- at the high school?

21 And do you recall about how far away from  
22 those fields to the north there that the tracks are?

23 A. To the north or did you mean to the east?

24 Q. Well, the tracks are to the east of the  
25 fields, but the northernmost fields are about how

1 close to the tracks would you say?

2 A. There's a drainage ditch and a lot of brush  
3 and I didn't make that measurement, but it shouldn't  
4 have changed in the last few years. I'm sure the  
5 right of way and the tracks are the same place the  
6 field -- the soccer field is. If I were to lift this  
7 exhibit off and look at the aerial photo, it does show  
8 that school. Just barely. I'm pointing to the oval  
9 running track on the aerial photo in Exhibit 10.

10 JUDGE ANDERL: In the far right-hand side?

11 THE WITNESS: Yes.

12 A. And one can see the track alignment, then  
13 there's green, and you would have to come up here as  
14 close as you could to do some photo interpretation.  
15 There's a greenbelt in there and you're speaking of  
16 the northerly baseball fields and I'm pointing to what  
17 appears to be a cross on the aerial photo and that's  
18 four softball fields. And we have a distance that I  
19 might estimate as 30, 40, 50 feet in there from the  
20 edge of the planted grass field to the edge of the  
21 clear right of way of the railroad.

22 Q. And are you aware the northernmost fields  
23 were purchased fairly recently for use by the  
24 district?

25 A. No, I'm not aware of that.

1 Q. And would you in your experience foresee a  
2 potential hazard if the trains are going past that  
3 area that close to the place where the students played  
4 ball without some sort of fencing there?

5 A. You mean in pedestrians moving across to go  
6 into the fields?

7 Q. Right. People going after the balls or  
8 people somehow getting into the area of the tracks  
9 where the trains are going 79 miles an hour.

10 A. It might be prudent for the school to  
11 consider extending that fence that they have around  
12 the football field up to their northerly play field.  
13 I think that would be a good consideration.

14 Q. Or for someone who is creating the  
15 situation to do that?

16 A. I'm not much on fencing expertise except  
17 for freeway fencing where you fence the limited access  
18 line. I think it would be good to have some barrier  
19 there and possibly a deep ditch, a water field ditch  
20 as you have back at this point here (pointing) --

21 JUDGE ANDERL: By the running track?

22 A. -- by the running track, right where that  
23 sign is, that says something about none -- or keep  
24 motorized traffic off the field, that's facing the  
25 ditch because evidently some people might have been

1 coming through there with trail bikes. It might be  
2 a good consideration to find where those people come  
3 through and put a stop to it, although it's a little  
4 unlikely that because of the nature of the other side  
5 of the tracks that that development -- what may happen  
6 over there, and I'm pointing to this area here,  
7 because we do have the freeway stopping pedestrians  
8 from making a through east-west trek there, so I think  
9 I would defer to some actual on-site experts in  
10 fencing and right of way control.

11 JUDGE ANDERL: When you just referred to  
12 the photo, you referred to the area west of the  
13 freeway and east of the tracks?

14 THE WITNESS: West of the freeway and east  
15 of the tracks and south of Thornton, correct.

16 Q. Thank you, sir. And you indicated that if  
17 the crossing at Thornton Road were used in conjunction  
18 with the proposed improvements, that there might be a  
19 sight distance problem, or in your opinion there  
20 actually would be a sight distance problem while the  
21 trains were separated there waiting for the Amtrak to  
22 come along, and that there might be a hazard for the  
23 students at the nearby high school who would be using  
24 that crossing, but assuming that crossing were made an  
25 arterial that connected to the interchange area, would



1 not adequate signalization as exists on Hovander Road  
2 and Second Avenue and Washington solve the sight  
3 distance problem and the problem of the students using  
4 the intersection if it had the arms that come down and  
5 so on?

6 A. They will try to get around the arms. All  
7 rail crossings are dangerous. All. If you can ever  
8 eliminate a grade crossing, you're going to save  
9 lives, there's no question to that. Can you  
10 positively close it off? Only with a grade separation  
11 where you took a bridge up and over Thornton and took  
12 it across and over I-5 and then back down again, and  
13 if you did a four-lane bridge and over, you've solved  
14 the grade crossing accident potential. But in doing  
15 so, you've also isolated those people next to that  
16 overpass by cutting off their access to Thornton Road.  
17 You can't have an up-and-over structure without taking  
18 width away and then, of course, the road in front of  
19 them isn't there anymore.

20 Q. So you're saying basically the upgraded  
21 crossings that are being proposed are dangerous also  
22 in the city and you would not agree that that type of  
23 signalization at Thornton Road would perform safely  
24 the job of keeping the people off the tracks when the  
25 Amtrak is coming?

1           A.       That's a good question and there's no  
2       technical literature to support what I'm going to  
3       say now. In my own opinion, in working with grade  
4       crossings since the '60s, a remote grade crossing is  
5       less safe than a downtown one because of the constant  
6       surveillance you have by adjacent people, police,  
7       state police, county police, and city police. When  
8       you get out to Thornton Road, it will be a little less  
9       safe and if there's no one looking, they go around the  
10      gates.

11          Q.       The statement you make about funding, now,  
12      are you saying that theoretically funding is available  
13      from several sources to make upgrades, but actually as  
14      a practical matter, you'll agree that the money is  
15      pretty tight for this type of interchange modification  
16      that you're referring to on Main Street and the other  
17      type of modifications you suggest the city should make  
18      to Vista and Malloy? As a practical matter there just  
19      isn't much money being doled out for that type of  
20      thing at the present time, is there?

21          A.       There's a constant source of money but it's  
22      not enough to do all of the projects the city wants to  
23      do and that's why the city makes a six-year street  
24      program and puts the first item that item they wish to  
25      do each year as a new six-year street program is done,

1 and when that is funded through the gas tax money,  
2 why, then go to the second and third and the fourth  
3 project. Well, there's never enough to do all the  
4 programs. I looked at the six-year program. There's  
5 16 projects for the City of Ferndale on that. And  
6 certainly there's not enough money to do them all. In  
7 fact, most of them aren't even indicated how much they  
8 would cost. But you asked is there money available to  
9 do these projects. The answer is, yes, they are  
10 eligible for that funding, but then there are other  
11 projects of higher priority that are also eligible and  
12 it's up to the city to determine which ones they wish  
13 to spend the money on.

14 Q. And you probably noticed some of the others  
15 as you traveled the city and saw some of the problems  
16 -- the other problems the city has with its streets,  
17 correct?

18 A. As a matter of fact, I didn't see a lot of  
19 problems the city had. I saw a pretty wide Vista  
20 Road, four-lane road made into a three-lane road with  
21 one lane in each direction. In other words, the  
22 capacity isn't needed. It can be made one lane each  
23 way with a two-way left-turn lane down the middle.

24 Q. Did you drive Church Road or Thornton Road  
25 to the west of Vista?

1           A.       No. I turned around at Thornton. Didn't  
2 go out as far as Church. That's the next major  
3 arterial that's going to be upgraded, I believe.

4           Q.       You said, I believe, that 15,000 cars on  
5 Main Street would in your opinion seem to be a pretty  
6 high count?

7           A.       From what I've seen of Main Street, 15,000  
8 appears to be a high count. It may not be what's  
9 called an average annual daily traffic, an AADT. It  
10 may be a peak day that did occur.

11          Q.       Were you aware because of the refineries  
12 and Intalco, so on, west of the city that there are  
13 frequent peak periods on a very frequent basis where  
14 the shifts change for the refineries and Intalco?

15          A.       Yes, there should be a definite peak-hour  
16 peak in which the hourly traffic would show easily 10  
17 percent of the average daily traffic and perhaps even  
18 a higher percent. Some industrial areas as high as 20  
19 percent.

20          Q.       Did you witness the actual imposition of  
21 traffic on Main Street during any shift change, either  
22 refineries, west of town?

23          A.       No, I did not. I came out for the a.m.  
24 peak hour this morning and witnessed some traffic  
25 which I consider to be very low volume. I have not

1 seen the evening peak hour on, say, a Friday  
2 afternoon.

3 Q. And you stated that the Main Street  
4 interchange could be improved without a whole lot of  
5 expense or trouble, I take it, to increase the traffic  
6 flow onto the interchange itself, but isn't the bridge  
7 a real problem with getting traffic to the freeway,  
8 the fact that the Main Street actually only has a  
9 two-lane bridge to get the traffic to the interchange?

10 A. The bridge -- under the bridge has more  
11 capacity than the intersections on each side. You  
12 work with the intersection, they have the capacity  
13 lowering effect. A free flowing lane under a bridge  
14 could run easily 1,200 cars per lane per hour in one  
15 direction, but the intersections can't handle it  
16 without some traffic engineering improvements.

17 Q. I'm talking about the bridge over the  
18 Nooksak River.

19 A. Excuse me. I think I was thinking of Axton  
20 Road.

21 Q. Right. I'm sorry. The problem here is  
22 that if we don't use Thornton Road as an additional  
23 connector, we're actually funneling all this new  
24 growth over a two-lane bridge over the Nooksak River,  
25 aren't we, regardless of what changes we make at Vista

1 and Malloy and at the interchange on Main Street?

2 A. Yes. And that bridge should be able to  
3 handle that increased traffic.

4 Q. And the Washington Street crossing where  
5 traffic can proceed out to the Portal Way interchange  
6 has shortcomings between the crossing itself and the  
7 interchange as far as the streets go there, isn't that  
8 true? They are very narrow and definitely not to  
9 arterial standards between the --

10 A. Well, Washington Street is the four lane or  
11 the wide street as it crosses the tracks and that's  
12 what I was addressing to. From there on, there's some  
13 narrowing streets that are short, block long that I  
14 would believe should be improved for turning traffic,  
15 particularly logging trucks and other  
16 tractor-trailers.

17 MR. CUILLIER: No other questions.

18 JUDGE ANDERL: Ms. Rendahl?

19

20 CROSS-EXAMINATION

21 BY MS. RENDAHL:

22 Q. Just a few, Mr. Cottingham. You testified  
23 that you reviewed the area on the evening of Monday,  
24 October 3, is that correct?

25 A. Yes.

1 Q. And have you reviewed the crossing --  
2 reviewed the area in Ferndale any other time before  
3 your testimony here today?

4 A. Yes. Some years ago. I've watched the  
5 growth of Ferndale since our company did work for the  
6 City of Ferndale in the Axton Road interceptor sewers,  
7 sewage treatment facilities, and I was the traffic  
8 engineer to advise our people how to open and close  
9 roads, flag traffic, and give traffic control plan.  
10 That was some years ago. And then I've come back here  
11 periodically since I have relatives in the area.

12 Q. Specifically for your testimony here today,  
13 how much time did you spend reviewing the Thornton  
14 Road crossing?

15 A. Specifically for this Thornton Road  
16 crossing? On Thornton Road only? Not very long.  
17 Probably not 20 minutes on the 3rd and not over 5  
18 minutes this morning.

19 Q. Did you do any sort of independent traffic  
20 count of the traffic in the city of Ferndale for your  
21 testimony here today?

22 A. No. I simply used existing traffic data  
23 from several sources, and it appears that there's no  
24 special counts done in this area for a long, long time  
25 that would be viable, only the permanent recording

1 ones by the state which come through on July -- the  
2 ones that I gave this morning, the 2.4 percent  
3 increase, was a July of each year compared to a July  
4 of previous year of a permanent traffic recording.

5 Q. I may have misunderstood what you said, but  
6 I believe you said that there were some -- the  
7 Thornton Road crossing area, maintaining that crossing  
8 would create some problems for schools in the area.  
9 Were you referring just to the high school or were you  
10 referring to school bus traffic over that crossing?

11 A. Yes, both of those. School bus traffic,  
12 school traffic, and in addition, the increase in  
13 commercial traffic that would be on Thornton Road  
14 would be a disadvantage to the residential district  
15 that's generally around Malloy, Vista, and to the  
16 west. By connecting Thornton Road through as an  
17 overpass or as a frontage road to the Portal Way  
18 interchange would increase traffic in residential  
19 areas, increase noise. It's a four-way stop at Vista  
20 and Thornton. It's not a four-way stop at -- well,  
21 yes, it's a two-way stop for Thornton at Malloy. And  
22 so you have starting-up traffic all the time, and when  
23 you increase traffic, you've got to expect that  
24 commercial traffic is a little noisier than just  
25 automobile traffic.



1                   But your question was specifically about  
2 school and school buses. It would be a disadvantage  
3 to school buses and to school traffic to have Thornton  
4 open as a grade crossing or as a grade separation.

5           Q.       Did you review the current school bus  
6 traffic in the city to make that assumption?

7           A.       Well, of course, I know that they are not  
8 using Thornton now because it's a dead end. So the  
9 current school bus routes wouldn't show what the  
10 proposed school bus routes could be with Thornton  
11 opened to an access road or as a grade separation over  
12 the freeway. No, I did not review the school bus  
13 routes.

14                   MS. RENDAHL: I have no further questions.

15

16   EXAMINATION

17 BY JUDGE ANDERL:

18           Q.       Okay. I have a couple of clarifying  
19 questions. You indicated that there is a business in  
20 the northwest quadrant of Thornton and Malloy?

21           A.       Yes.

22           Q.       What is east of Malloy on the north and  
23 south sides of Thornton before you get to the tracks?

24           A.       A vacant or residential. There's actually  
25 some animals in there, some goats on the north side,

1 some cows on the south side.

2 Q. Okay. What is between the tracks at  
3 Thornton and I-5?

4 A. I'll refer to the aerial, Exhibit 10. This  
5 green area that I'm showing on that exhibit (pointing)  
6 is east of Malloy and west of I-5, just undeveloped  
7 nothing on the south of Thornton.

8 On the north side of Thornton we have, I  
9 believe, even one more residence than this aerial  
10 photo shows at the present time. Very difficult to  
11 see the existing residence I'm pointing to on the  
12 south side, just a single one there today.

13 Q. Okay. And part of this proposal by  
14 Burlington Northern is to construct an access road to  
15 Portal Way so that those people would not be trapped,  
16 is that correct, or am I understanding this right?

17 A. Yes. Extend this gravel road into a better  
18 standard, pave it, two lanes, 22 feet of paving and  
19 two feet of shoulder each side, bringing it in close  
20 to the ramp -- southbound off-ramp of I-5 with an  
21 intersection right where the head of the pointer is  
22 shown now.

23 Q. Which is Portal Way?

24 A. That is Portal Way, yes.

25 Q. And it shows on this Exhibit Number 5 -- or

1 Number 4, rather, as a dotted magenta line?

2 A. That's correct. And with a label  
3 "Construct access road."

4 Q. Right. Okay.

5 JUDGE ANDERL: Anything on redirect?

6 MS. GIBSON: Yes, I have a few questions,  
7 your Honor.

8

9

REDIRECT EXAMINATION

10 BY MS. GIBSON:

11 Q. Mr. Cottingham, with respect to that access  
12 road or access driveway at Thornton Road crossing  
13 between the tracks and the freeway, would you defer to  
14 the Department of Transportation's Mr. Josephson as to  
15 the details of that proposal?

16 A. Yes. He would have the details of that,  
17 would be more able to speak, because it does intersect  
18 Portal Way very close to the interchange of I-5 and  
19 would take some special geometrics to make that  
20 driveway work.

21 Q. Now, you were asked on cross-exam by Mr.  
22 Cuillier about fencing in the area of the school play  
23 fields and you made a comment about maybe the school  
24 should extend the fence. Was that comment based on  
25 the -- a speed increase of the trains or was it based

1 on the existing -- just the existence of the tracks or  
2 what was it based upon?

3 A. The question was asked with the increased  
4 speeds wouldn't a fence be appropriate, I believe was  
5 the way it was worded. And I would rather defer to  
6 fencing experts there because there's many miles of  
7 track without fence, and fences do create a problem,  
8 and there's very few fences kids can't get through,  
9 around, or over. All five of my kids can climb a six-  
10 foot chain-link fence quite easily. A barbwire fence  
11 you can go through and animals can get through and  
12 under. Fences require maintenance and so fencing  
13 experts are ones that you should refer to. If the  
14 school wants to make it safe all along the east side  
15 of their play field, I would think the schools would  
16 have some say-so in how the fence should be and  
17 probably fund it as well.

18 Q. Mr. Cuillier asked you about the safety of  
19 Thornton Road crossing if the crossing remains open  
20 and there is a large connector road put to connect  
21 access to the Portal interchange. What in your  
22 opinion would happen if that road crossing did --  
23 Thornton Road remained open and Amtrak service was  
24 initiated and Burlington Northern freight trains had  
25 to block the crossing, then what would you say about

1 the safety and efficacy of the crossing in that  
2 instance?

3 A. Well, in that case the crossing is less  
4 than desirable and can't be depended upon as a through  
5 route. It would have to have turnarounds built into  
6 probably private driveways so that when the train does  
7 block, they could go another route. And if fire or  
8 police decided to route their traffic there when it's  
9 open and then find it closed sometimes, it's going to  
10 disrupt their response by having that -- a train  
11 blocking the crossing and, of course, a train has to  
12 block the crossing to come in on the siding. Even if  
13 you separate the train, there is a time when it's  
14 blocked, and a 7,000-foot train doesn't have people on  
15 the cars. It has people only on the front end  
16 leading. They have to come back to that point. So  
17 there's always a blockage time that's going to happen.

18 MS. GIBSON: Nothing else.

19 JUDGE ANDERL: Anything on recross? All  
20 right. Hearing nothing, then thank you, sir, for your  
21 testimony. You may step down. What I would like to  
22 do is go off the record for about a five-minute break.  
23 It looks like the next witness will probably take  
24 about a half an hour and so we'll try to get that  
25 witness done before lunch. Let's be off the record.

1 (Recess.)

2 JUDGE ANDERL: Let's be back on the record.  
3 While we were off the record, the next witness took  
4 the stand, identified by the schedule as Al Clark with  
5 Amtrak. Would you raise your right hand, please.  
6 Whereupon,

7 ALDEN L. CLARK,  
8 having been first duly sworn, was called as a witness  
9 herein and was examined and testified as follows:

10 JUDGE ANDERL: Ms. Cushman, you're going to  
11 handle the direct on this witness?

12 MS. CUSHMAN: (Nods head.)

13 JUDGE ANDERL: Go ahead.

14

15 DIRECT EXAMINATION

16 BY MS. CUSHMAN:

17 Q. Mr. Clark, could you give your business  
18 address for the record.

19 A. Yes. My name is Alden L. Clark and my  
20 business address is 60 Massachusetts Avenue Northeast,  
21 Washington, D.C. 20002.

22 Q. Mr. Clark, who is your employer?

23 A. My employer is Amtrak. My position with  
24 Amtrak is senior director of contract operations.  
25 I've been with Amtrak for 22 years, essentially since

1 it's beginning. My background is a civil engineering  
2 graduate, registered professional engineer, state of  
3 New York. I have had a 40-year career in the railroad  
4 industry. In addition to my 22 years with Amtrak,  
5 I've been employed by freight railroad. In such  
6 employment, I've been a trainmaster, superintendent,  
7 been in engineering, marketing and transportation  
8 departments.

9 Q. Mr. Clark, could you please explain your  
10 job responsibilities with Amtrak.

11 A. My responsibilities with Amtrak include  
12 passenger train schedules as they relate to the  
13 contract, are found in the contracts, between Amtrak  
14 and the freight railroads. It also includes the  
15 evaluation of proposed and existing routes that Amtrak  
16 either does or may run over or may be requested to  
17 look at. It has also in the past included matters  
18 pertaining to grade crossings and speed restrictions.  
19 As a result of these responsibilities, I've ridden  
20 tens of thousands of miles on the head ends of our  
21 passenger trains. I've evaluated approximately 25,000  
22 miles of rail lines. I've been an expert witness in  
23 federal court, and I've appeared before this  
24 Commission in the past.

25 Q. Mr. Clark, what is the mission of Amtrak?

1           A.       Well, Amtrak was created by the rail  
2 passenger service of 1970 to operate and improve rail  
3 passenger service in United States. We operate a  
4 nationwide service over about 20,000 route miles.  
5 That mileage includes what we call 403 B routes. 403  
6 B is a section of the Rail Passenger Service Act. In  
7 section 403 B provides that states or others may ask  
8 Amtrak to operate passenger routes and the states or  
9 others thereby participating in some or all of the  
10 deficits resulting from such operations. We employ  
11 about 14,000 people and in the Washington state we  
12 operate ten passenger trains daily. We have terminal  
13 facilities in Seattle, and we have a number of  
14 stations throughout the state.

15           Q.       Thank you. Can you talk about the  
16 considerations that go into determining schedules and  
17 what effect speed restrictions have on the operation  
18 of passenger trains?

19           A.       Well, schedules are preferred to be as  
20 short as possible for marketing reasons. On the other  
21 hand, schedules also need to be reliable so that  
22 people can count on time performance. So as a result,  
23 we look for opportunities to remove speed restrictions  
24 and thereby either be able to improve the reliability  
25 or shorten schedules. We have been directed by



1 Congress on several occasions to seek means of  
2 improving our schedules and to work with states and  
3 communities in such efforts. And in the past we have  
4 been here in Washington, we have looked at and worked  
5 with the Commission and with cities and towns, both  
6 the routes out of Spokane to Seattle and to Portland,  
7 Oregon, but our primary efforts have been focused on  
8 the Seattle to Portland corridor.

9 Q. Why is Amtrak joining in this petition to  
10 increase passenger speeds and close Thornton crossing?

11 A. Well, Amtrak was requested by the state of  
12 Washington to operate Seattle/Vancouver service, or  
13 perhaps I should say restore Seattle/Vancouver  
14 service, in accordance with section 403 B of the Rail  
15 Passenger Service Act. Amtrak previously operated  
16 service between Seattle and Vancouver period 1972 to  
17 1981. That service was discontinued due to poor  
18 financial showing. It had relatively low passenger  
19 revenues and relatively high costs, and we believe one  
20 factor that contributed to the -- its demise was the  
21 lengthy four and a half hour schedule that was  
22 operated during those years.

23 Our concurrence with the state to operate  
24 once again this new service is based on an upgrading  
25 of the line to provide for a minimum goal of a three

1 hour and fifty-five minute schedule to eliminate speed  
2 restrictions that might prevent -- that would prevent  
3 reaching that goal, and without elimination of such  
4 speed restrictions, that goal cannot be reached and  
5 Amtrak will not operate the service because it would  
6 not be economically viable.

7 Q. How was the decision reached to set the  
8 schedule time for the run to be three hours and  
9 fifty-five minutes?

10 A. Originally our former president, now  
11 deceased, Mr. Graham Claytor, had a discussion with  
12 myself about what our goal should be in terms of a  
13 schedule if the service were to be restored. And we  
14 agreed that the schedule should be approximately three  
15 hours and thirty minutes, which is not unlike it was  
16 in prior years as Mr. Hatton has testified.

17 In reviewing with the state of Washington,  
18 its consultants, and Burlington Northern, and taking  
19 into consideration the amount of funds available for  
20 upgrading the line, it was concluded that we could not  
21 at this time reach a three hour and thirty minute goal  
22 and that the best schedule with a reasonable amount of  
23 recovery time would be approximately three hours and  
24 fifty-five minutes, and so the goal was redefined or  
25 at least the initial goal was set at three hours and

1 fifty-five minutes.

2 Q. Could you talk about your opinion of safety  
3 hazards in the Ferndale area in relation to these  
4 petitions?

5 A. After looking at the situation in Ferndale,  
6 and I've been through here a number of times on  
7 inspection trains and I've high railed it, and  
8 yesterday I had a chance to spend a fair amount of  
9 time on the ground --

10 Q. Could you explain what high railing is?

11 A. A high-rail vehicle is a highway vehicle  
12 that is equipped with small diameter wheels that can  
13 be lowered to permit it to operate on the track and  
14 it's frequently used by railroad officers and track  
15 inspection personnel to travel over the track and be  
16 able to inspect either the details of the track or the  
17 general situation.

18 Q. Okay. So but when you say you high railed  
19 the line, you basically drove over it on a truck that  
20 could run on railroad tracks?

21 A. That's correct.

22 Q. Okay.

23 A. With respect to Ferndale and the petitions  
24 that are before the Commission, we feel that raising  
25 the speed from the south corporate limits to milepost

1 105.8, or approximately the bridge over the river,  
2 constitutes no increase in safety hazards. There is  
3 one crossing there, Hovander Road. It has excellent  
4 signal protection in the form of cantilevered flashers  
5 and gates. The motorists must slow to approximately  
6 15 miles an hour because of the S curves so they have  
7 ample opportunity to see the crossing protection.  
8 There is no change in speed proposed on the five  
9 degree curve over the -- which is just north of the  
10 river and just south of Washington Street. So there  
11 is no change really proposed with respect to the  
12 Second and Washington Street crossings.

13 North of Washington Street as it's been  
14 previously testified, the track is tangent, proposed  
15 to raise the speed from 50 to 79 miles an hour, and  
16 close Thornton Road as has been discussed by others,  
17 and we see no local safety hazards in doing that,  
18 provided that Thornton Road is closed.

19 Q. Okay. What effect would the denial of the  
20 speed increase petition have?

21 A. The speed petition as it relates to  
22 Ferndale represents approximately one minute  
23 reduction or non-reduction, depending upon the  
24 decision, in the overall running time. There are  
25 roughly ten communities or so where speeds are being

1 increased. It is through such increases that we can  
2 achieve the three hour and fifty-five minute goal.

3 Denying increases, each community wants to  
4 say, Well, don't approve the speed -- the speed change  
5 in our community, but let the others do it. And we  
6 see that you've got to really have it happen in each  
7 community. If it's denied in one community, will have  
8 similar effects quite possibly in other communities,  
9 and the net effect is that the service will not  
10 operate.

11 Q. Do you have experience with crossing safety  
12 issues?

13 A. Yes. We've been dealing with crossing  
14 issues throughout the country. Crossings are  
15 obviously a controversial item. I've heard them  
16 described as we almost get into a matter of semantics  
17 between safest and safe. All railroad crossings in my  
18 view, if they have adequate protection, visibility, if  
19 there's an enforcement program, and the public is  
20 aware of them, such as through such programs as  
21 Operation Lifesaver, then all crossings are safe. It  
22 isn't to say that the safest situation isn't the  
23 absence of the crossing. It's sort of like flying  
24 versus non-flying. Flying is safe, but it's even  
25 safer if you don't fly.

1 Q. In your opinion, can trains operate safely  
2 at 70 miles per hour and in excess of 70 miles per  
3 hour?

4 A. Oh, yes. We operate trains daily, many  
5 trains' speeds 90 miles an hour and even above over  
6 grade crossings.

7 Q. Do you have any reason to believe that  
8 faster trains are safer?

9 A. From riding trains, I have personally  
10 observed that when trains are moving slow, people have  
11 a tendency to drive around the trains. It's almost  
12 the slower you go, the more the people have that  
13 innate desire to get around the train before it  
14 passes. Conversely, where trains are moving at high  
15 speeds, it appears that motorists respect the trains  
16 and they are aware that the train will clear the  
17 crossing properly and they appear to much more  
18 consistently comply with the crossing warning systems  
19 and with state laws, which they are supposed to.

20 Q. In the course of your work for Amtrak, do  
21 you have occasion to deal with the Federal Railroad  
22 Administration statistics on safety and crossings?

23 A. Yes. I've looked at the statistics from  
24 time to time and I even have talked a little bit about  
25 them. The statistics you're referring to, are those

1 some of those that are found in Exhibit 6 I think  
2 it was introduced as?

3 Q. Yes, that's correct.

4 A. Those statistics as I read them, and have  
5 read them for a number of years, they've been  
6 published now for 16 years and they seem to be  
7 amazingly consistent year after year after year. In  
8 1993, looking at Table 16 in those statistics, we find  
9 that only 11 percent of the accidents/incidents  
10 involved trains operating at or above 50 miles per  
11 hour.

12 MS. CUSHMAN: Excuse me. For the benefit  
13 of the judge, it's the -- he's referring to Table 16  
14 at page --

15 JUDGE ANDERL: It says 43.

16 MS. CUSHMAN: Page 4 of the exhibit. It's  
17 indicated as page 43 at the bottom of the copy.

18 JUDGE ANDERL: Thank you.

19 A. Looking at those figures further, it shows  
20 that trains operating less than 30 miles per hour were  
21 involved in 54 percent of the accidents or incidents,  
22 which again goes to my observation that slow trains  
23 tend to increase the probability of some people  
24 disobeying the law and not paying attention to the  
25 warning signals. There's also a number, surprisingly

1 large percentage, at least it's surprising to me, 25  
2 percent of the accidents involve vehicles running into  
3 the sides of trains which, if anything, is an argument  
4 for higher speeds to reduce the exposure for such  
5 accidents.

6 Q. And that's because trains -- faster trains  
7 spend less time on the crossing?

8 A. That's right.

9 JUDGE ANDERL: I don't think I understand  
10 this table. Is it just raw numbers or are there  
11 percentages there that I should be seeing?

12 THE WITNESS: There are raw numbers. You  
13 have to convert them to percentages and you have to  
14 tabulate by groups to come to the numbers that I have  
15 used.

16 JUDGE ANDERL: So those are calculations  
17 that you did?

18 THE WITNESS: Yes. They are calculations  
19 derived using the numbers in those tables.

20 Q. If a train is traveling at a faster speed,  
21 how much warning time is there at a crossing?

22 A. Each crossing, of course, can be different,  
23 but the normal design, and I believe these crossings  
24 reflect a normal design, is to provide a minimum of 20  
25 seconds, which I believe the railroads have



1 interpreted to say let's make it 30 seconds or they  
2 are at least close to 30 seconds of warning time.  
3 Now, if crossings do not have what are known as  
4 predictor circuits, then a slow-moving train, because  
5 it's approaching the crossing slowly, could lengthen  
6 much longer the amount of warning time, and that's the  
7 reason that predictor circuits were designed. The  
8 predictor circuit interprets the speed of the train  
9 and it turns the warning system on so as to provide an  
10 approximately uniform warning time, which I believe  
11 would be approximately 30 seconds.

12 Q. So you get 30 seconds whether the train is  
13 traveling at 45 miles per hour or 70 miles per hour?

14 A. That's basically correct.

15 Q. Could you talk a little bit about the rail  
16 safe operations of Amtrak?

17 A. Yes. Safety is our utmost concern at  
18 Amtrak and the highest priority and if in any way we  
19 felt that what we were proposing or what is being  
20 proposed in Ferndale or in other communities on this  
21 route was not safe, then we would not be a part of  
22 these proposals. As far as crossings are concerned,  
23 as I mentioned before, the essentials are a good  
24 warning system, an educational program, and very  
25 important is the enforcement of traffic laws, and I

1 think a prior witness commented about how crossings  
2 in downtown areas where police or sheriffs or other  
3 law enforcement officers are found frequently -- can  
4 observe the crossings frequently are -- tend to be --  
5 have better compliance by motorists than those in  
6 outlying areas where law enforcement may be harder or  
7 fewer tickets may be issued or fewer warnings.

8 Q. Okay. In your opinion will raising speeds  
9 as requested in this petition be in accord with  
10 Federal Railroad Administration track and safety  
11 standards?

12 A. Yes. The track and safety standards  
13 provide that a class -- a track which meets FRA Class  
14 4 standards is good for 80 miles per hour for  
15 passenger trains, and I think it would -- the BN  
16 witness will testify that the track does currently  
17 meet Class 4 standards. So as far as the FRA  
18 standards are concerned, this route is good for 80  
19 miles an hour except where the geometry of curves  
20 precludes that speed.

21 Q. Do you have anything further that you would  
22 like to add?

23 A. No.

24 MS. CUSHMAN: Okay.

25 JUDGE ANDERL: Any cross for this witness

1 from the city?

2 MR. CUILLIER: Thank you, your Honor.

3

4

CROSS-EXAMINATION

5 BY MR. CUILLIER:

6 Q. Mr. Clark, since you had to increase the  
7 time that you originally thought this trip should take  
8 from three hours and thirty minutes to three hours and  
9 fifty-five minutes, were you able to determine whether  
10 that would still be competitive?

11 A. I think competitive is a relative factor.  
12 If we had two hour schedules, it would be extremely  
13 competitive. If we have five hour schedules, it would  
14 be -- obviously not be competitive. There has to be  
15 some kind of a gradation in there. Three hour and  
16 thirty minute schedule would be more competitive than  
17 a four hour schedule, less competitive than a three  
18 hour schedule. It appears to me from just driving on  
19 route Interstate 5 that the driving times must vary  
20 considerably depending upon whether you're out on --  
21 in Vancouver or in Seattle during the rush hours, or  
22 what the situation at the border is, whether you're  
23 complying with the speed limit, or whether you're  
24 driving along with the bulk of the motorists who  
25 appear to drive somewhat above the speed limit. All

1 of those things affect the travel time. I don't know  
2 what -- how anyone can say there's a precise travel  
3 time between Seattle and Vancouver by highway, but  
4 obviously the shorter the rail trip, rail running  
5 time, the more competitive the service would be.

6 Q. So would it be fair to say that three hours  
7 and fifty-five minutes is the figure that was arrived  
8 on for practical -- was arrived at for practical  
9 reasons, but it could go longer and still be  
10 competitive, just not as competitive?

11 A. The service came off in 1981 because it was  
12 economically unviable. We have -- and Mr. Hatton was  
13 not aware of some internal discussions that we've had  
14 within Amtrak. When we looked at restoring the  
15 service, we recognized the viability has two  
16 components to it. It has revenues and it has  
17 expenses. And as I think you alluded to in a question  
18 on the cross-examination of Mr. Hatton, we were  
19 looking also at the expenses. We want the service to  
20 be viable. We want it to stay on. And as you sort of  
21 alluded to, our labor agreements do permit the  
22 operation of train with a smaller crew if it operates  
23 on a schedule of less than four hours, so that was a  
24 factor in the conclusion. However, the three hours  
25 and fifty-five minutes actually came about not from

1 the economics of the operation, but rather from what  
2 the track speeds would permit, given the amount of  
3 funds available to upgrade the track, to upgrade the  
4 conditions. In other words, to have a shorter  
5 schedule would mean curve realignments or other  
6 expensive projects for which there are not at this  
7 point, to the best of my knowledge, funds available.

8 Q. Is the reason for another crew member, do  
9 you know if that has anything to do with safety or if  
10 that's --

11 A. No, sir. It has nothing to do with safety.  
12 We run hundreds of trains throughout the country every  
13 day with one man on the -- in the cab of the  
14 locomotive.

15 Q. Is it to allow somebody to take over  
16 somebody's function or is it to have an additional  
17 person to help with the function, do you know?

18 A. It was a settlement of issues between  
19 management and labor.

20 Q. Okay. And the trains that you will be  
21 using obviously don't have the cab signalization or  
22 the automatic stop features that they don't use any  
23 more, I assume?

24 A. There are different kinds of features. We  
25 will not have functional cab signals. It will have

1 what we call an alertor system, A L E R T O R.  
2 Alertor system requires a -- the locomotive engine  
3 person to basically be in continuous motion or a  
4 warning -- his body must be continuously making  
5 motions or a warning signal comes on, and if he fails  
6 within a few seconds to make a motion, such as  
7 touching the metal controls or panel, then the brakes  
8 apply automatically.

9 Q. There have been some statements in the  
10 press, I'm sure you're aware of, to the effect that  
11 Amtrak is -- or was in financial problems, had  
12 deteriorating equipment, and had a lot of problems to  
13 overcome to be viable or remain viable in the  
14 marketplace. Is there any thought on your part that  
15 this demonstration project might not last too long?

16 A. This service is being -- will be operated  
17 at the request of the state of Washington and it will,  
18 as far as I can see, project, it will operate as long  
19 as the state of Washington wants the service to  
20 operate. In the upcoming years as circumstances  
21 change, it may in fact come to a status where there  
22 will be no deficit. We do have some state-operated  
23 services at this point where there is no cost to the  
24 state each year because the revenues are high enough  
25 and the costs are low enough. So, yes, there is a

1 possibility that will end, but there is also a very  
2 good possibility that it will continue on throughout  
3 my life span.

4 Q. What would be the shortest time that it  
5 might end, that it would possibly end?

6 A. I don't know, sir. That would be primarily  
7 between the state and Amtrak. I don't know whether  
8 the state has -- could address that. I can't.

9 Q. So you would only continue with certain  
10 state assistance in the future?

11 A. Unless it becomes -- the costs in revenues  
12 become such that we could incorporate it into our  
13 basic system.

14 Q. And that's not foreseeable in the  
15 demonstration project?

16 A. I'm not sure that it isn't foreseeable,  
17 because we operate, as I mentioned, services in other  
18 states where that has happened, where the revenues  
19 have been such that the train continues to operate  
20 without any further state subsidy, and that's our goal  
21 -- that's certainly the goal of the state and here and  
22 that's what Amtrak would like to see and that's why it  
23 is so important that we have a marketable service,  
24 good schedules, and keep our costs under control.

25 Q. They call this a demonstration or a pilot

1 project. Usually that connotes that at some point  
2 it's going to be evaluated and a decision is going to  
3 be made whether it should become permanent. Is this  
4 the process you foresee?

5 A. Not as far as Amtrak is concerned.

6 Q. What is it as far as you're concerned?

7 A. We will continue to operate it as long as  
8 the state asks for it to be operated or unless, as I  
9 mentioned a moment ago, it becomes -- the economics  
10 become such that we can operate -- continue to operate  
11 it without state subsidy.

12 MR. CUILIER: Thank you.

13 JUDGE ANDERL: Thank you. Ms. Rendahl?

14

15 CROSS-EXAMINATION

16 BY MS. RENDAHL:

17 Q. Mr. Clark, I just have a few questions for  
18 you. Do you know if Amtrak has conducted any train  
19 time studies in conjunction with Burlington Northern  
20 to assess the mixed traffic of freight and passenger  
21 and how that would affect the three hour and  
22 fifty-five minutes time frame?

23 A. Well, let me answer you in a kind of  
24 circuitous manner, if I may. Federal law stipulates  
25 or states that passenger trains shall have the



1 priority over freight trains. That is the --  
2 obviously the concern of Burlington Northern and is  
3 why sidings of adequate capacity are important to  
4 Burlington Northern. As between two -- as between two  
5 Amtrak trains, obviously one has to take the siding to  
6 clear the other. As between a freight train and an  
7 Amtrak passenger train, we would hope and expect under  
8 normal circumstances that the Amtrak train not be  
9 delayed. Did Amtrak make specific studies of where  
10 freight trains and passenger trains would meet? The  
11 answer is no.

12 Q. Just to clarify the record, I think you  
13 mentioned that the goal is for a three hour and  
14 fifty-five minute schedule with recovery time. What  
15 did you mean by recovery time?

16 A. We calculate -- sorry. Let me try again.

17 Recovery time is a part of the schedule of  
18 a train which is not needed if the train can operate  
19 under perfect or maximum speed conditions. In other  
20 words, the elements of our schedules as we build them  
21 are the minimum running time, an allowance for each  
22 stop or dwell and the acceleration and deceleration,  
23 plus a margin, if you would like to call it a margin,  
24 of safety. Slop is one of the words used. I prefer  
25 to call it recovery time. It's there. It's a few

1 extra minutes. It usually runs in the neighborhood of  
2 six to eight percent of the overall time of schedule  
3 and it's in there to help ensure a relatively high  
4 on-time performance.

5 Q. In your testimony in the direct examination  
6 there was a question as to whether faster trains are  
7 safer. You were referring, weren't you, during that  
8 time to the conflict between motor vehicle accidents  
9 and trains?

10 A. That's correct. Sorry I didn't make that  
11 clear.

12 Q. Also in your direct testimony you stated  
13 that there would be no local -- you did not see any  
14 local hazards, provided that the Thornton Road  
15 crossing is closed, is that correct?

16 A. That's correct.

17 Q. Have you assessed the area that you've --  
18 that's been discussed this morning alongside the high  
19 school concerning the fencing issue? Have you  
20 considered that?

21 A. Yes. Trespassers are a nationwide problem.  
22 They are not a local safety hazard. We unfortunately  
23 find trespassers on railroad property throughout the  
24 nation. I would say that it's something that needs to  
25 be recognized, as also been pointed out by I think a

1 prior witness, but is certainly not a local or unique  
2 safety hazard. Trespassers can occur anyplace along  
3 the railroad.

4 MS. RENDAHL: I have no further questions,  
5 your Honor.

6 JUDGE ANDERL: Thank you. Ms. Cushman,  
7 anything on redirect?

8 MS. CUSHMAN: No.

9 JUDGE ANDERL: Thank you, Mr. Clark, for  
10 your testimony. You may step down. A couple of  
11 things before we break for lunch. Ms. Gibson, I just  
12 wanted to ask you, I have a question as it relates to  
13 the prior service back in '91 or '92 that Amtrak was  
14 offering as passenger service.

15 MS. GIBSON: You mean '81 or '82?

16 JUDGE ANDERL: Did I say '91 or '92?

17 MS. GIBSON: Yes.

18 JUDGE ANDERL: '81 or '82. And maybe Mr.  
19 Hatton could have answered it, but maybe one of your  
20 witnesses upcoming can answer it, and the question is  
21 how did freight trains get out of the way for  
22 passenger trains during that time through Ferndale.

23 MS. GIBSON: I'll see if we can find an  
24 answer for that.

25 JUDGE ANDERL: I'm afraid even if I write

1 it down I'll forget it, but now that everyone knows  
2 that is one of my questions, I'll have a better chance  
3 of getting an answer.

4 One of my other questions, on this Exhibit  
5 Number 4, one of the magenta designations which shows  
6 proposed change at milepost 106.2 does show an  
7 increase in the freight train speed. Is that an  
8 error?

9 MS. GIBSON: No. The request, according to  
10 the petition, is between 106.2 to 107.8, increase from  
11 50 to 79 miles per hour for passenger. Are you saying  
12 it says freight increase in the map?

13 JUDGE ANDERL: At 106.2 it shows that 40 is  
14 the current freight train speed, I think.

15 MS. GIBSON: That should be 50. The  
16 current order is 50.

17 JUDGE ANDERL: That's fine.

18 MS. GIBSON: Does that answer that?

19 JUDGE ANDERL: Okay, thank you. All right.  
20 And when we come back after lunch, we'll give the  
21 public another opportunity if there are any members of  
22 the public who want to testify at that time, and then  
23 we'll go with the next witness which will be who?

24 MS. GIBSON: Mr. Scieszinski.

25 JUDGE ANDERL: Okay, great. Let's be off

1 the record. Let's be back in an hour and 15 minutes,  
2 please. That would be at 25 after, to be on the  
3 record at 1:30.

4 (Lunch recess taken at 12:10 p.m.)

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AFTERNOON SESSION

1:30 p.m.

JUDGE ANDERL: Let's be on the record.

We're on the record after our lunch recess. This is the opportunity for members of the public to testify. Two witnesses have indicated they would like to make their comments at this time. The first gentleman has taken the stand. Sir, if you would raise your right hand to be sworn.

Whereupon,

CLIFFORD BRYANT,

having been first duly sworn, was called as a witness herein and was examined and testified as follows:

JUDGE ANDERL: Thank you. Ms. Rendahl, do you want to go ahead.

DIRECT EXAMINATION

BY MS. RENDAHL:

Q. Would you please state your full name for the record and spell your last name.

A. My name is Clifford Bryant. The last name is B R Y A N T.

Q. And would you please give us your address.

A. 2057 Willow Court.

Q. Do you live in Ferndale?

1           A.     Yes, I do.

2           Q.     And how long have you lived in the city of  
3 Ferndale?

4           A.     Off and on, this is my second time, but  
5 approximately this time two years.

6           Q.     Are you appearing today on your own behalf  
7 or on behalf of a group?

8           A.     On my own behalf.

9           Q.     Please go ahead and make your statement.

10          A.     I'm looking at all of this stuff today and  
11 we went over -- quite obviously went over it pretty  
12 good. Myself and quite a few of the neighbors went  
13 down to the city council and voted against the train  
14 tracks being down below Willow Court and which we got  
15 changed to go out by Brown Road. Since the time that  
16 that's been happened, the city council and the  
17 planning commission has changed the plans from moving  
18 the city of Ferndale out to the Brown Road. So that  
19 is affirmed now they are going to move the city limits  
20 out to Brown Road.

21                   JUDGE ANDERL: Let me interrupt. So  
22 everybody can follow along, can you show me generally  
23 on this map where Brown Road is?

24                   THE WITNESS: It should be or --

25                   JUDGE ANDERL: Or maybe it's not on the

1 map.

2 MS. GIBSON: Your Honor, it's right at the  
3 northerly part of Exhibit 4. Do you see the green  
4 sticker that says Brown Road?

5 JUDGE ANDERL: Okay. Thanks. So it's --

6 A. And we got that changed and they are going  
7 to move it out to Brown Road and the -- my question  
8 is, and this is for everybody concerned, why can't  
9 they build a spur out off the railroad tracks from the  
10 present railroad tracks to store the cars out there  
11 rather than use the main track here so the main track  
12 could be used for Amtrak? Because theoretically  
13 Amtrak -- my personal feeling and I do not care who  
14 knows it, my personal feeling is it will not last over  
15 a year and a half. So I feel by using the main line  
16 for Amtrak and building a spur out by Brown Road or  
17 wherever it may be, because it's all industrial site  
18 anyway, the city council and the planning commission  
19 has designated as industrial area. So theoretically  
20 all the people out there if it becomes industrial  
21 area, they are going to need boxcars. And so put the  
22 boxcars into them, but then leave this main track for  
23 Amtrak only, then we have no questions of that  
24 whatsoever.

25 JUDGE ANDERL: All right. Mr. Bryant, let



1 me ask you where is Willow Court relative to all this?

2 THE WITNESS: Okay. Willow Court is right  
3 here.

4 JUDGE ANDERL: Okay. Let me -- so the  
5 record is clear, that is --

6 THE WITNESS: See, right now --

7 JUDGE ANDERL: Hang on a second. I'm still  
8 trying to get it on the map. Was that off of --

9 MS. RENDAHL: Your Honor, I believe that's  
10 north of Thornton Road.

11 THE WITNESS: Yes.

12 MS. RENDAHL: And west of the railroad.

13 JUDGE ANDERL: It's north of Thornton?

14 THE WITNESS: Yes.

15 A. This area right now has been designated for  
16 industrial, housing for 148 homes right here. It's  
17 not been built yet. So there's going to be 148 homes  
18 built -- individual homes built right in this area  
19 right here. What's going across the street, I don't  
20 know. But in this area right here I do know that it's  
21 been approved by the city council and the planning  
22 commission that it would be 148 homes put right in  
23 here.

24 JUDGE ANDERL: Mr. Bryant, across the  
25 street there where you referred to, is that -- by any

1 chance is that Johnson or Jensen Street?

2 THE WITNESS: I'm not quite aware of it.  
3 It's right across here (pointing.)

4 JUDGE ANDERL: Okay. I'm just trying to  
5 make it so anybody who reads this record later knows  
6 what you're referring to on the map, and I just can't  
7 figure out a way to describe it.

8 THE WITNESS: The police department can't  
9 even describe it. They don't know where it is.

10 JUDGE ANDERL: Okay. Did you have any  
11 other comments?

12 THE WITNESS: That's all I have, ma'am.

13 JUDGE ANDERL: Let's see if the attorneys  
14 have questions for you. Ms. Gibson?

15 MS. GIBSON: No, I don't have any  
16 questions.

17 MS. CUSHMAN: No.

18 JUDGE ANDERL: From the city?

19 MR. CUILLIER: No.

20 MS. RENDAHL: No, your Honor.

21 JUDGE ANDERL: Thank you very much for your  
22 comments. And the next witness? Take a seat.

23 Whereupon,

24 LLOYD J. ZIMMERMAN,  
25 having been first duly sworn, was called as a witness

1 herein and was examined and testified as follows:

2 JUDGE ANDERL: Go ahead, Ms. Rendahl.

3

4

DIRECT EXAMINATION

5 BY MS. RENDAHL:

6 Q. Would you please state your full name for  
7 the record and spell your last name for the reporter,  
8 please.

9 A. Lloyd James Zimmerman, Z I M M E R M A N.

10 Q. And could you give us your address, please.

11 A. 2234 Main Street.

12 Q. And do you live in Ferndale?

13 A. Yes.

14 Q. And how long have you lived in Ferndale?

15 A. Three years going on four years.

16 Q. Are you appearing today on your own behalf  
17 or on behalf of a group?

18 A. Probably both.

19 Q. And what group would you be here on behalf  
20 of?

21 A. I'm currently president of the Ferndale  
22 Image Group.

23 Q. Could you explain to us what that group is.

24 A. It's a network of -- its a grassroots  
25 network of a multitude of groups, public schools, city

1 of Ferndale, non-profit organizations such as Kiwanis,  
2 Chamber of Commerce businesses. It's basically open  
3 to all citizens of Ferndale. Dedicated to make it a  
4 better place and to work on issues of, you know,  
5 public policy and things like this, transportation,  
6 trails, litter, beautification, economic development,  
7 a lot of -- a broad range of city interest.

8 Q. Okay. Please go ahead and make your  
9 statement.

10 A. I would have to speak negatively about the  
11 two changes that would be proposed, one, the closure  
12 of Thornton, and the other of the increase of speed  
13 limit. If it hasn't been noted, a number of years  
14 back there was a derailment that knocked out the  
15 telephone system for a number of years -- or months --  
16 or weeks going into months and, you know, 79 miles  
17 an hour with the current technology of the weight and,  
18 you know, the track, the condition of the track, plus  
19 as Ferndale's growing, its transportation options need  
20 to be constantly updated and reevaluated, and the  
21 closure of these intersections would be a real  
22 financial hardship on the city as well as a major  
23 inconvenience to the citizens as well as a -- the  
24 public health interest of the school located close by.

25 We have pedestrians and students and I as a

1 general -- my personal comment is, you know, with big  
2 business and, you know, everyone is looking for a  
3 faster, more powerful speeding bullet, and my general  
4 strategy would be say, Hey, just put more trains on at  
5 a tighter schedule and make it more convenient for  
6 people if you're going to market it for people. It's  
7 not that they want to get there instantly, but they  
8 want something that's flexible to their schedules.  
9 Smaller trains going at more intervals would give  
10 people a greater amount of freedom for their  
11 scheduling when they want intercross paths with plane  
12 flights, bus schedules, a lot of these things.

13 Plus it's my opinion, I believe, that, you  
14 know, it's not even scheduled to stop at Ferndale, so  
15 this is kind of adding insult to injury with this  
16 general policy, you know. I think in our city we're  
17 in the process of laying out a city transportation  
18 plan and look at different scenarios that will help us  
19 into, you know, the next century and that, you know,  
20 we like -- the citizens of Ferndale like trains and  
21 would like to have it be part of their formula, but  
22 this kind of precludes a lot of the -- this planning  
23 precludes any involvement, so it's difficult.

24 Q. Does that conclude your statement?

25 A. Yes.

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EXAMINATION

BY JUDGE ANDERL:

Q. Okay. Mr. Zimmerman, let me just ask you, do you personally use the Thornton Road crossing for any reason?

A. The Thornton Road? I would should it be open or, you know.

Q. Do you mean should it be connected so it's not a dead-end road any longer?

A. Correct.

Q. In its current configuration --

A. I don't live down there or have friends that live down there, but I --

Q. So basically you're relying on it becoming a through street and for that reason --

A. Yeah, in a future tense.

Q. And then as to the speed limits, you just feel that that's too fast?

A. Yeah. My representation would be actually to lower them, especially, you know, a lot of hazardous chemicals and different scenarios that can happen.

Q. You have to bear in mind the only thing we're talking about is --

1           A.     -- passenger rail.

2           Q.     That's right.  So the freight trains are  
3 going to go through town at the same speed they have  
4 always gone.

5           A.     Right, but they still will be parked there  
6 and there is quite a few, what, four to six tracks  
7 across there, so there's always, you know, hazardous  
8 chemicals and liquid, propane gas, and a lot of things  
9 sitting within our city limits with a 79 mile an hour  
10 train used to be zipping by.

11          Q.     Anything else?

12          A.     No.

13                    JUDGE ANDERL:  Any questions for this  
14 witness, Ms. Gibson?

15

16                                CROSS-EXAMINATION

17 BY MS. GIBSON:

18          Q.     Mr. Zimmerman, apparently you're not aware  
19 that the storage of rail cars is going to change from  
20 the current plan where they are stored in the city  
21 limits, they are all going to be moved to Cherry Point  
22 for long-term storage.  You're not aware of that?

23          A.     That would be a very nice change.

24          Q.     And --

25          A.     It should have happened a long time ago, I

1 mean some other facilities.

2 Q. It's true, isn't it, Mr. Zimmerman, you  
3 live here close to the library off Main Street?

4 A. Yes.

5 Q. So you wouldn't personally have any use for  
6 the Thornton Road crossing if there were an extension  
7 to it, is that right?

8 A. I think I would, yeah, almost on a daily  
9 basis, I would think.

10 Q. Where do you work?

11 A. I'm self-employed.

12 Q. So you work out of your home which is here  
13 near the library?

14 A. Yes.

15 Q. And your most direct access to I-5 from  
16 here is Main Street/Axton Road, is that right?

17 A. If I'm southbound, yeah.

18 Q. And if you're northbound, you would use  
19 Portal?

20 A. Yeah. I would cross over Washington and  
21 then go around and get on Portal.

22 MS. GIBSON: Nothing else.

23 JUDGE ANDERL: Ms. Cushman?

24 MS. CUSHMAN: No questions.

25 JUDGE ANDERL: Mr. Cuillier?



1 MR. CUILLIER: No questions.

2 JUDGE ANDERL: Ms. Rendahl, anything else?

3 MS. RENDAHL: No, your Honor.

4 JUDGE ANDERL: Okay. Mr. Zimmerman, thank  
5 you for your comments today.

6 THE WITNESS: Thank you.

7 JUDGE ANDERL: Is there anyone else from  
8 the public who wishes to testify at this time? All  
9 right, I see no response. Ms. Gibson, your next  
10 witness?

11 MS. GIBSON: Mr. Scieszinski.

12 JUDGE ANDERL: Okay. Raise your right  
13 hand, please.

14 Whereupon,

15 ROBERT SCIESZINSKI,  
16 having been first duly sworn, was called as a witness  
17 herein and was examined and testified as follows:

18

19 DIRECT EXAMINATION

20 BY MS. GIBSON:

21 Q. Would you say your full name, please.

22 A. It's Robert E. Scieszinski,  
23 S C I E S Z I N S K I.

24 Q. Mr. Scieszinski, by whom are you employed?

25 A. The Federal Railroad Administration.

1 Q. And where are you employed?

2 A. In the regional office in Vancouver,  
3 Washington.

4 Q. And is that known as the FRA?

5 A. Region 8.

6 Q. How long have you been employed by the FRA?

7 A. Let's see. Twelve -- a little over 12  
8 years.

9 Q. What is your current position?

10 A. I'm the supervisor -- supervisory  
11 specialist for signal and train control.

12 Q. What is the FRA, Mr. Scieszinski?

13 A. It's an agency of the U.S. Department of  
14 Transportation responsible for inspecting railroads  
15 for safety regulations in five different disciplines,  
16 track and signal and mode of power and equipment,  
17 operating practices and hazardous material,  
18 investigate train accidents, investigate waiver  
19 applications.

20 Q. Has the FRA formulated a policy regarding  
21 the closure of highway/railroad grade crossings?

22 A. Yes.

23 Q. And what is that policy just in general  
24 terms?

25 A. Well, in general, it's basically to reduce

1 the number of highway/railroad grade crossings  
2 nationwide.

3 Q. Why is that?

4 A. Due to the large number of crossing  
5 accidents and fatalities involved in the highway grade  
6 crossing accidents.

7 Q. Has the FRA identified any criteria to be  
8 applied to the selection of specific crossings for  
9 either consolidation or closure?

10 A. Yes. They recently published a booklet  
11 that contains basically seven guidelines for crossing  
12 closure.

13 Q. And do you have that booklet with you  
14 today?

15 A. Yes, I do.

16 Q. Referring to that booklet -- well, first of  
17 all I should ask you, have you been present for the  
18 testimony this morning?

19 A. Yes.

20 Q. And you have an understanding of what is at  
21 issue here with the Thornton Road crossing, do you?

22 A. (Nods head.)

23 Q. In your opinion, do any of the criteria  
24 for selection that the FRA has identified, do any of  
25 those criteria apply to the situation of the requested

1 closure of Thornton Road?

2 A. Yes. Item 2. Do you want me to read what  
3 these are?

4 Q. Yes. Would you read item 2.

5 A. Okay. Item 2 is consolidate crossings  
6 which have fewer than 2,000 vehicles per day and more  
7 than two trains per day if an alternate route is  
8 available.

9 Q. Are there any other criteria --

10 A. Yes.

11 Q. -- that are met?

12 A. Item 4. Link construction work with  
13 eliminations. This linkage will be especially  
14 important when upgrading rail corridors for high speed  
15 trains.

16 Q. Are there any others?

17 A. Yes. Item 5. When improving one crossing  
18 by grade separation or installation of automatic  
19 warning devices, consider eliminating adjacent  
20 crossings and rerouting traffic from these crossings  
21 to improve the crossing.

22 Q. And so are you considering then the  
23 improvements that are being made at Washington Street  
24 crossing as fitting into that criteria?

25 A. Right. Exactly.

1 Q. And are there any other of the criteria  
2 that meet the situation?

3 A. Yes. Item 7. Eliminate complex crossings  
4 where it is difficult to provide adequate warning  
5 devices or which have severe operating problems,  
6 multiple tracks, extensive switching operations, long  
7 periods blocked, et cetera.

8 Q. Earlier I believe you may have heard one of  
9 the other witnesses, Mr. Clark, speaking of some of  
10 the statistics in Exhibit 6, the Highway-Rail Crossing  
11 Accident/Incident and Inventory Bulletin.

12 A. Right.

13 Q. You're familiar with that booklet, are you?

14 A. Yes.

15 Q. And are these statistics which are  
16 contained in Exhibit Number 6, are they the latest  
17 statistics available through the FRA on this matter?

18 A. Yes. As you can tell on the cover, it was  
19 just published in July of '94.

20 MS. GIBSON: All right. I have no further  
21 questions of this witness.

22 JUDGE ANDERL: All right. Any cross, Mr.  
23 Cuillier?

24 MR. CUILLIER: Yes, please.

25

1 CROSS-EXAMINATION

2 BY MR. CUILLIER:

3 Q. Sir, have you seen the crossing at issue  
4 here?

5 A. No, I have not.

6 Q. When you say that item 2 applies to the  
7 crossing, fewer than 2,000 people crossing, you're  
8 assuming it in its present condition --

9 A. Exactly.

10 Q. -- rather than improved as an arterial  
11 crossing?

12 A. Correct.

13 Q. And when you mention item 7 applies  
14 regarding the elimination of what, complex crossing  
15 situations?

16 A. Yeah. Well, I guess how that -- or how I  
17 interpret it to apply is if the crossing is left the  
18 way it is and high speed rail is actually -- you know,  
19 at some point in time the crossing is going to have to  
20 be eliminated either via an overpass or grade  
21 separation or -- rather than just remain the way it  
22 is, so, you know, it could involve a lot more work, I  
23 guess.

24 Q. Do you think it's a complex crossing  
25 because of -- see, it has -- it's level and it's

1 straight and the road meets it at 90 degrees. What do  
2 you feel is --

3 A. Well, there's testimony earlier about  
4 parking trains, you know, meeting trains on the siding  
5 and possibly splitting -- either blocking the crossing  
6 during these train meets or splitting the crossing,  
7 and a person would have to, you know, creep out there  
8 and --

9 Q. But with the appropriate signalization with  
10 the type of signals that prevent people from creeping  
11 out there, we really wouldn't have those type of sight  
12 distance or hazardous problems, would we?

13 MS. GIBSON: Object to the form of the  
14 question. Mischaracterizes prior testimony.

15 JUDGE ANDERL: I'm afraid I didn't  
16 understand the question myself, so I'm going to  
17 sustain that.

18 Q. I guess I'll rephrase it then.

19 Are you saying that the crossing would  
20 create a hazard because people would creep out onto  
21 the crossing?

22 A. Well, if there's -- you would have limited  
23 sight distance, right, and that would be a hazard in  
24 itself. I mean, between parked railroad cars you  
25 mean? I guess is what I'm looking at it as, being a

1 hazard if that type of practice developed.

2 Q. But what I'm asking is couldn't that  
3 problem be alleviated with keeping people from  
4 entering out onto the track until the train has  
5 passed?

6 A. By --

7 Q. -- the arms, the signal arms?

8 A. Oh, the installation of gates or something?

9 Q. Mm-hmm.

10 A. Possibly to some extent, yes.

11 MR. CUIILLIER: No other questions.

12 JUDGE ANDERL: Ms. Rendahl, any questions  
13 for this witness?

14

15

CROSS-EXAMINATION

16 BY MS. RENDAHL:

17 Q. Mr. Scieszinski, you were referring to a  
18 booklet or a report. Is this the booklet you were  
19 referring to?

20 A. Right.

21 MS. RENDAHL: Your Honor, I would request  
22 that the page that was referenced or the section that  
23 was referenced be introduced in the record for  
24 clarification because I believe a number of points  
25 were mentioned but I think that should really be put



1 into context.

2 JUDGE ANDERL: Are we referring to what's  
3 now Exhibit 6?

4 MS. GIBSON: No. It's a separate document,  
5 your Honor. It's page 35 of a different booklet. We  
6 can have a xerox copy made and include it in the  
7 record. I would have no objection to that.

8 JUDGE ANDERL: Okay, I think that would be  
9 appropriate. Let's give that Exhibit Number 12 right  
10 now, and can I see the cover there, please?

11 (Marked Exhibit No. 12.)

12 THE WITNESS: Sure.

13 JUDGE ANDERL: The Rail-Highway Crossing  
14 Safety Action Plan Support Proposals, and that's a  
15 document that's prepared by your agency?

16 THE WITNESS: Right.

17 JUDGE ANDERL: Okay. And you just wanted  
18 the one page, Ms. Rendahl?

19 MS. RENDAHL: That's acceptable, yes.

20 MS. GIBSON: Why don't I do the cover page  
21 and the page 35.

22 JUDGE ANDERL: Great. And is there any  
23 objection to that being made a part of the record?

24 MR. CUIILLIER: No.

25 JUDGE ANDERL: That'll be admitted as

1 Exhibit Number 12 then.

2 (Admitted Exhibit No. 12.)

3 Q. I just have one other question, Mr.  
4 Scieszinski. Has the FRA issued any rules or  
5 regulations concerning the closure of grade crossings  
6 or these are just suggestions in this report?

7 A. No. These are guidelines. They are not  
8 regulations, no.

9 MS. RENDAHL: Thank you. I have no other  
10 questions, your Honor.

11 JUDGE ANDERL: Any redirect?

12 MS. GIBSON: Nothing else.

13 MS. CUSHMAN: (Shakes head.)

14 JUDGE ANDERL: Thank you, Mr. Scieszinski,  
15 for your testimony. You may step down. The next  
16 witness?

17 MS. CUSHMAN: The next witness is Mr. Ed  
18 Quicksall.

19 JUDGE ANDERL: Mr. Quicksall, if you would  
20 raise your right hand, please.

21 Whereupon,

22 EDWARD L. QUICKSALL,  
23 having been first duly sworn, was called as a witness  
24 herein and was examined and testified as follows:

25 JUDGE ANDERL: Go ahead, Ms. Cushman.

1 DIRECT EXAMINATION

2 BY MS. CUSHMAN:

3 Q. Mr. Quicksall, would you please state your  
4 name and spell it for the record.

5 A. It's Edward Leon Quicksall,  
6 Q U I C K S A L L.

7 Q. Could you give us your business address.

8 A. 303 South Jackson, Seattle, Washington,  
9 98104.

10 Q. Where are your offices located?

11 A. Right there at King Street Station in  
12 Seattle.

13 Q. Are you employed by The National Railroad  
14 Passenger Corporation, otherwise known as Amtrak?

15 A. Yes, I am.

16 Q. What is your position with Amtrak?

17 A. I'm transportation manager for the western  
18 division, 710.

19 Q. If Amtrak was operating trains today  
20 through this Ferndale area, would that be part of your  
21 territory?

22 A. Yes, it would be.

23 Q. What are your responsibilities as the  
24 transportation manager?

25 A. Every time I try to figure that out, I find

1 out I've got a few more, but basically it's the  
2 safety, the maintenance of on-time performance, budget  
3 compliance, train and engine crew evaluation and  
4 performance, fuel efficiency testing, and general  
5 overall management of other supervisors doing the same  
6 thing in Seattle. If you get right down to it, the  
7 buck stops right here with me on trains operating in  
8 and out of Seattle for Amtrak.

9 Q. You stated that you handle engine crew  
10 qualification and evaluation. Does that refer to  
11 engineers?

12 A. That's correct.

13 Q. Are you certified as a locomotive engineer  
14 pursuant to Section 49, Code of Federal Regulations,  
15 Part 240?

16 A. Yes, I am.

17 Q. Have you ever been employed as an engineer?

18 A. Yes. I started in San Antonio, Texas for  
19 the Southern Pacific Railroad in December of 1971 as a  
20 locomotive fireman. Was promoted to the position of  
21 engineer in November of 1973 where I was employed  
22 running both Amtrak trains and freight trains until  
23 November of 1988. At that time Amtrak took over the  
24 operation of their trains. Before that, SP supplied  
25 the crews. And I came to Amtrak as an engineer

1 working exclusively passenger service. And March of  
2 '90 I went into management with Amtrak.

3 Q. So that means you have 23 years of  
4 experience in operation of trains and about 6 years in  
5 passenger service?

6 A. That's correct.

7 Q. What differences do you find in operating  
8 passenger trains as compared to freight trains?

9 A. The actual operation?

10 Q. (Nods head.)

11 A. Braking is the major difference. With an  
12 Amtrak train, as soon as you apply the brakes, you  
13 feel the decelerating force, much like driving an  
14 automobile. When you step on the brakes, you feel the  
15 car slow. A passenger train, you get that immediate  
16 response versus a freight train where there's a  
17 slightly delayed response or sometimes even longer  
18 delayed response. But just like driving an  
19 automobile, the more brakes you put on, the quicker  
20 you stop. It's basically -- I always compare running  
21 a passenger train to driving a car. You put the  
22 brakes on, it stops.

23 Q. Since you've compared it to driving an  
24 automobile, if you were driving a train at 79 miles  
25 per hour and tried to stop, would it be comparable to

1 driving a car at 79 miles per hour and trying to stop?

2 A. No. I didn't mean to mislead you. But  
3 you've got weight and momentum going at 79, much  
4 greater than that of an automobile. So it takes a  
5 longer distance to bring a train to a stop from 79.

6 Q. How long does it take a train to stop at 79  
7 miles per hour, a passenger train?

8 A. A planned stop, about half a mile  
9 approximately. That can vary with the weight of the  
10 engines, the total length of the track.

11 Q. Okay. So if it's a half a mile for a  
12 planned stop, how far is it for an emergency or a  
13 panic stop?

14 A. About a half a mile, the reason being  
15 you've got the declostats on coaches.

16 JUDGE ANDERL: Excuse me?

17 A. D E C L O S T A T S. They work like an  
18 anti-lock braking system does on your automobiles  
19 today. When they sense the wheels on the coaches are  
20 about to lock up, they start releasing a little bit of  
21 pressure to keep that from happening and keep the  
22 wheels from sliding. So they release, grab back,  
23 release, grab back, to keep the train from sliding.  
24 The only place you don't have declostats is on the  
25 engines. The engines will slide, in which case if you

1 do have sliding engines, you can actually have a  
2 longer distance to stop because it's kind of like  
3 wearing leather shoes on an ice skating rink. Metal  
4 against metal sliding on the rail. It can take longer  
5 to stop.

6 Q. From 45 to 50 miles per hour what is your  
7 estimate of the distance for a planned stop?

8 A. About three-eighths of a mile.

9 Q. So an emergency stop takes approximately  
10 three-eighths of a mile from 45 to 50 miles per hour?

11 A. No. What happens there, when we said half  
12 a mile for a 79 mile per hour planned stop versus half  
13 a mile for a 79 mile an hour emergency stop, you've  
14 got much greater momentum. From 45 or 50 miles an  
15 hour an emergency stop would be quicker than the same  
16 three-eighths of a mile for a planned stop. What  
17 you've got is a more abrupt stop, and if anybody is  
18 standing in the train at that lower speed, they are  
19 probably going to be propelled forward because of the  
20 abruptness because of the lesser force of the momentum  
21 and they may be injured in the process.

22 Q. So based on what you've told us and your  
23 experience, is it safer for passengers aboard a train  
24 to experience an emergency stop at 79 miles per hour  
25 than it is an emergency stop at 45 or 50 miles per

1 hour?

2 A. In the context of a?

3 Q. Striking an automobile.

4 A. Yes.

5 Q. What if they are striking a fuel truck?

6 A. Definitely you would go through the flames.

7 Momentum would carry you through the flames.

8 Q. As compared to stopping in the middle of  
9 the fire?

10 A. Right. And that was proven. In Chicago I  
11 had an engineer a year ago, a little bit over a year  
12 ago, hit a propane truck. He chose through his own  
13 decision to go through that propane truck before he  
14 placed the train in emergency. None of the passengers  
15 were injured on that train. About two months after  
16 that, a train struck a fuel truck in Florida and the  
17 passengers that were injured were not injured from the  
18 collision with the fuel truck; they were injured  
19 because the train stopped on the crossing where the  
20 flames were and they were bailing out of the train  
21 into the flames.

22 Q. Okay. We've talked about speed and  
23 stopping inasmuch as crew and passenger safety is  
24 involved. How does speed and stopping distance affect  
25 the driver of the vehicle which is being struck by the



1 train?

2 A. That's really relative to where the vehicle  
3 is struck. A low-speed impact broadside will probably  
4 seriously injure or kill the driver just the same as a  
5 high-speed impact broadside.

6 At low speed a train has the tendency to  
7 take a vehicle down the tracks with it. At high  
8 speed, it has a tendency to knock it away to one side  
9 or the other. If you gave me my choice and said,  
10 You're going to sit in a car right here, do you want  
11 the guy to come down and hit you fast or slow? I  
12 would say if it's going to be broadside, it really  
13 makes me no difference. If you took the same vehicle  
14 and put the front or the rear of the car on the tracks  
15 and gave me my choice, I would ask you to get Casey  
16 Jones for the engineer because the train has a  
17 tendency then to shear -- when it doesn't get  
18 broadside, if it hits the front or the rear of the  
19 car, it has a tendency to shear that part of the car  
20 off and keep going. But low speed versus high speed,  
21 it really depends on where the impact is as far as  
22 injury or death to the driver.

23 Q. Okay. And you've had experience  
24 investigating accidents?

25 A. Yes, I have. I've also had experience

1 hitting cars at both low and high speed.

2 Q. As an operator?

3 A. As an engineer, yes.

4 Q. Have you or the railroad for which you were  
5 operating a train ever been found guilty by any court  
6 of law for any collision?

7 A. No.

8 Q. Mr. Quicksall, have you gone out and  
9 inspected the crossing at Thornton Road?

10 A. Yes. I spent about 35 minutes there this  
11 morning.

12 Q. And what is your opinion as to the  
13 viability of that crossing in the context of its  
14 safety as it relates to passenger train?

15 A. Poor. The safety of the crossing itself, a  
16 crossing is no more safer or unsafer than the people  
17 driving the vehicles that approach those crossings.  
18 But I don't know how many people in here have seen  
19 Thornton Road that are involved in this proceeding. I  
20 think most of them have.

21 First thing I noticed was visibility is  
22 poor there anyway. My opinion, the crossing is not a  
23 good risk today and probably should be shut down. You  
24 do have stop signs there that tell you to stop, but  
25 what you've got is something that no engineer likes to

1 see. You have a siding or a passing track, depending  
2 on what you want to call it, there which means that  
3 you have the capability of putting a train in there  
4 while an adjacent track will permit a train to come  
5 down the other side. Drivers tend to approach when  
6 they see a train standing and get a false safety  
7 illusion that there's a train, it's standing, I'm  
8 okay, go. And they don't realize there's another  
9 track on the other side, an adjacent track. That  
10 creates a trap for a driver.

11 I heard somebody earlier talk about we'll  
12 put gates on the crossing. That's even worse, in my  
13 opinion, and I see it all the time. Gates are down,  
14 people come up, train stopped, they look at this train  
15 stopped, it's actually on the siding waiting for the  
16 other train to come, they say, Well, that is the  
17 reason the gates are down, we'll run the gates, and  
18 here comes the other train right into the car. It  
19 happens too often. In my opinion, Thornton Road  
20 shouldn't exist today much less in the future.

21 Q. Okay. In general, what is your opinion as  
22 an engineer as to how accidents can be reduced?

23 A. Well, sure, I think Mr. Clark earlier said  
24 eliminate crossings. We know that we can't do that.  
25 We need to eliminate the unnecessary crossings. The

1 more traffic you put onto existing crossings, the  
2 better chance you have of not having an  
3 accident, because good drivers will block access to  
4 that crossing to following suicidal or careless  
5 drivers. They'll bring attention to inattentive  
6 drivers. We need programs like Operation Lifesaver  
7 which goes to community groups, schools, talking about  
8 crossing safety. They teach that engineers can't  
9 yield right of way to a car that darts out in front of  
10 you. It's just impossible.

11 We need strict enforcement of the crossing  
12 laws that are designed to keep cars from doing that.  
13 I can't tell you all the times I see a law officer not  
14 writing a ticket to a car that runs right in front of  
15 our trains. Makes no sense to me. We need stiff  
16 penalties for doing that.

17 And we need to quit blaming the engineers  
18 and the railroads when a vehicle is struck. There's  
19 no engineer that I've ever known in my career that  
20 went to work today to kill somebody. They become a  
21 victim too. And it wasn't their fault. The car got  
22 in front of them. They didn't jump off the track and  
23 run down the highway and hit the vehicle.

24 Q. I want to change the subject a little bit.  
25 Earlier in Mr. Clark's testimony he brought up the

1 subject of alertors, and I would like you to clarify  
2 why they are on the trains and what they do.

3 A. Alertor is a device that stops a train with  
4 a penalty application if the engineer doesn't respond  
5 in a certain way. Basically the alertor, it's a  
6 mechanical function which says, Are you awake? And the  
7 engineer by some action, movement, blowing the whistle,  
8 there's a lot of actions related there, let's this  
9 mechanical function know, yeah, I'm awake, I'm doing my  
10 job, don't worry about me. It can either be touching  
11 metal, breaking contact with metal, throttle  
12 manipulation, but it's something mechanical an engineer  
13 has to do to let it know. If the alertor  
14 malfunctions, then it's required by our rules by  
15 general road performance notices that an employee  
16 qualified on the rules must be up in the cab with the  
17 engineer. So it's not like we ever operate a train  
18 without either the alertor functioning or two people up  
19 on the cab. But if he doesn't respond within a certain  
20 period of time, which is usually about 20 to 30  
21 seconds, the train will be brought into a penalty  
22 application. It will come into a total stop and it  
23 will take at least two minutes to get that train to  
24 move again.

25 MS. CUSHMAN: Thank you. I have no further

1 questions.

2 JUDGE ANDERL: Okay. Any cross for this  
3 witness, Mr. Cuillier?

4 MR. CUIILLIER: Thank you.

5

6 CROSS-EXAMINATION

7 BY MR. CUIILLIER:

8 Q. Mr. Quicksall, do you think that it makes  
9 the overall situation safer to close a crossing if  
10 you're diverting the traffic onto a different  
11 crossing? In other words, you're diverting -- you're  
12 having traffic go to a different crossing across the  
13 tracks, just one crossing instead of having, say, half  
14 the traffic use each of two crossings?

15 A. Yeah. Much safer. You've got two reasons  
16 there. One is, in general -- or my response would be  
17 in general to any place we're talking about, a  
18 percentage of your drivers -- a large percentage of  
19 your drivers are careful and safe drivers. A very  
20 small percentage of those drivers are people who will  
21 take chances with their vehicles. The percentage of  
22 safe drivers stopping in front of that railroad  
23 crossing with an approaching train will hold up the  
24 unsafe guy back there. If he happens to be first,  
25 then there's nothing we can do about that.

1                   But you also have a small percentage, I  
2 would think, of accidents that occur from inattentive  
3 drivers, people that just aren't paying any attention.  
4 Maybe they have the radio too loud, whatever else.  
5 The more cars you have got approaching the crossing to  
6 draw attention to the fact there's an approaching  
7 train, the less chance you have of somebody  
8 inadvertently getting out in front of the train.

9                   Now, my second response to that is more  
10 specific to Thornton Road. Thornton Road has an  
11 adjacent track to it. And then I guess back to what I  
12 was saying earlier, you will quite often have a train,  
13 if we're operating a freight train standing there,  
14 which will give a false sense of security to somebody  
15 going, There's a train standing there, I'm okay. They  
16 won't realize there's two sets of tracks involved  
17 there and that there may be another train coming down.  
18 They could even hear a whistle and think it's the  
19 standing train that they can see.

20                  Q.       With that long siding, say it's nine or  
21 10,000 feet, would there not be a way to set the  
22 trains back a ways from the crossings so that wouldn't  
23 be a problem?

24                  A.       I can't respond to that because I don't --  
25 that would be more of a question that would be brought

1 to the BN about the length of the train that they are  
2 running and not me. Where I came from, we ran 10,000  
3 foot trains. I mean we literally ran 10,000 foot  
4 freight trains. I don't know what BN runs.

5 Q. They don't -- they have not yet designed a  
6 signalization system that keeps people from running  
7 the signal -- running the gate?

8 A. Not that I've ever seen.

9 Q. So they just drive right through the gate?

10 A. They drive around the gates. They have  
11 people get out of their cars, raise gates. You would  
12 actually in my opinion at Thornton Road have a worse  
13 situation with a train standing and a signal system on  
14 that road because anybody approaching that crossing  
15 and seeing signals flashing, gates down, would think  
16 it was caused by the standing train and not by the  
17 approaching train.

18 Q. So what you're saying is that if BN is  
19 allowed to use that track for the purpose of allowing  
20 the Amtrak by, then there's little or no chance that  
21 the city would ever be able to use that crossing at  
22 grade?

23 A. I don't -- you know, I can't respond to  
24 that. That's beyond my knowledge. The only thing I  
25 can tell you is from having been out there today, I



1 seriously think that some people ought to go out there  
2 and look how much vision you've got today. It's not  
3 good as it is.

4 Q. We would be assuming it were an improved  
5 arterial and those traffic situations were corrected?

6 A. Yeah, you're out of my area.

7 MR. CUILLIER: Okay. Thank you. No other  
8 questions.

9 JUDGE ANDERL: Ms. Rendahl?

10

11

CROSS-EXAMINATION

12 BY MS. RENDAHL:

13 Q. I just have a few clarifying questions.

14 A. Sure.

15 Q. You were talking about at the beginning of  
16 your testimony the difference between a passenger  
17 train and a freight train in stopping. And my  
18 question is, don't you get a more uniform braking on a  
19 passenger train than you would on a freight train?

20 A. You definitely do. You get not only  
21 uniform braking, you get predictable braking. Freight  
22 trains are -- the error is setting up -- and I  
23 shouldn't be here talking for BN because that's not my  
24 point here, so I'm only talking about my former  
25 experience as a freight engineer. Freight trains, the

1 brakes set up from the head end back, and what's  
2 happening is as the brakes set up, you're waiting for  
3 that response. On our trains, we're not running 100-  
4 car trains, we're not running 150-car trains. The  
5 brakes are setting up almost instantaneously  
6 throughout the whole train. It is -- it is a very  
7 maintained braking.

8 Q. Does the weight of the cars have any effect  
9 on the braking of the train?

10 A. It could have an effect on the amount of  
11 braking that you issue to that train. With Amtrak,  
12 we've got more brakes than we better be using, because  
13 we have people standing and walking in our trains. If  
14 we use every brake we've got, we're going to hurt  
15 somebody seriously.

16 MS. RENDAHL: I have no other questions,  
17 your Honor.

18

19

EXAMINATION

20 BY JUDGE ANDERL:

21 Q. Okay. Mr. Quicksall, one or two questions.  
22 How long typically are these Amtrak passenger trains  
23 which would be running through Ferndale?

24 A. I don't have an answer for that right now  
25 because that's still in the planning stages. We would

1 hope that it would be -- it would probably be a  
2 minimum of three coaches. I'm speculating there. We  
3 would hope, depending on ridership, hope to have it up  
4 to five or six.

5 Q. And then how many engines?

6 A. That would be a one-engine operation for  
7 that train. But once again, that will be something  
8 that will be discussed with the DOT between Amtrak on  
9 a different level than mine.

10 Q. And from a safety perspective, does it make  
11 any difference in your opinion whether those trains go  
12 through town at 50 miles per hour or 79 miles per  
13 hour?

14 A. From a safety perspective, it's safer, if  
15 you ask me, to go through town at 79. Most of the  
16 crossings we go across throughout this country are 79  
17 mile per hour crossings. If we're involved in a grade  
18 crossing accident, my passengers are safer, in my  
19 opinion, at 79 then they are at 50 miles an hour.

20 You know, the momentum makes that a much  
21 smoother stop than what you're going to get at 50.

22 JUDGE ANDERL: Okay. Any redirect for this  
23 witness?

24 MS. CUSHMAN: No.

25 JUDGE ANDERL: All right. Thank you, Mr.

1 Quicksall, for your testimony. You may step down.

2 MS. GIBSON: Next witness is Russell  
3 Frazier.

4 JUDGE ANDERL: Mr. Frazier, if you  
5 would raise your right hand, please.  
6 Whereupon,

7 RUSSELL J. FRAZIER,  
8 having been first duly sworn, was called as a witness  
9 herein and was examined and testified as follows:

10

11 DIRECT EXAMINATION

12 BY MS. GIBSON:

13 Q. Say your full name for the record, please.

14 A. Russell James Frazier.

15 Q. And your occupation, Mr. Frazier?

16 A. Manager signal maintenance, Burlington  
17 Northern Railroad.

18 Q. How long have you held that position?

19 A. About eight years now.

20 Q. What other positions have you held with  
21 Burlington Northern?

22 A. I started out as an assistant signalman  
23 installing signal systems and worked up through the  
24 scheduled ranks as a foreman and then on to a  
25 supervisor in the exempt. Worked as a maintenance

1 supervisor and now manager signal maintenance.

2 Q. In your current position can you tell us  
3 what your territory is?

4 A. My area of responsibility is from  
5 Vancouver, British Columbia to Bieber, California and  
6 from Aberdeen, Washington to Williston, North Dakota.

7 Q. So you're responsible for the signals here  
8 through the town of Ferndale and the surrounding area?

9 A. Yes, I am.

10 Q. Are you familiar with the improvements that  
11 are planned to the signal system for this line in  
12 conjunction with the new Amtrak service?

13 A. Yes.

14 Q. Okay. I would like you to go over to  
15 Exhibit 4, if you would, and describe what those  
16 changes are.

17 A. Initially, down here at Hovander Road, that  
18 currently is equipped with cantilevered signals and  
19 gates and a constant warning device called an HXP  
20 for monitoring the speed of the train and the  
21 activation for that train approaching the crossing.  
22 That equipment will remain the same and will adjust  
23 the approaches for that equipment to allow for the  
24 higher train speeds.

25 At Second Street in town here in Ferndale,

1 that crossing is also equipped with cantilevered  
2 signals and gates. That equipment will remain the  
3 same. The activation equipment will remain the same  
4 with lengthened approaches to handle the higher train  
5 speed.

6 Q. When you talk about lengthened approaches,  
7 what are you describing?

8 A. That's the distance that the activation  
9 equipment looks down the track to determine when the  
10 train arrives at the crossing. By using constant  
11 warning equipment, it measures the speed of the train  
12 to a known distance and calculates the time it will  
13 take that train to reach the crossing and starts the  
14 crossing so that there's a minimum of 20 seconds  
15 warning time.

16 Q. So you're just changing the approaches then  
17 because of the higher speeds?

18 A. That's correct.

19 Q. And what about Washington Street crossing,  
20 is there any change there?

21 A. Washington Street, because of the track  
22 changes -- but that I'll get into here in a minute --  
23 will require the addition of some additional constant  
24 warning devices at that crossing. The cantilevered  
25 signals and gates will remain the same but we will be

1 adding some additional predictor equipment in that  
2 crossing.

3 Q. All right. And would you describe that  
4 additional equipment.

5 A. That's going to be -- the engineering isn't  
6 final on it yet, but it looks like there will be an  
7 additional two HXPs, which is our crossing activation  
8 equipment. One of them will be looking down the main  
9 track -- from the switch location north of the  
10 crossing down the main, and the other one will be  
11 looking from that switch on the siding, so that we can  
12 detect the approach of a train from either track.

13 Q. From the northerly direction?

14 A. Right.

15 Q. What changes were you alluding to that are  
16 being made on the track?

17 A. Okay. This whole territory from Bellingham  
18 to Blaine is what we call automatic block signals.  
19 This is going to be changed to a constant -- or to a  
20 CTC signal system which is centralized traffic  
21 control. In other words, the dispatcher will control  
22 switches and signals at a control point and he also  
23 has an indication coming into him as to the location  
24 of the trains that are out here.

25 Q. Is this considered a more sophisticated

1 method?

2 A. Definitely, yes.

3 Q. Do all the crossings have predictors now?

4 A. No. The ones in Ferndale do, yes.

5 Q. And that's what I meant.

6 A. Yes.

7 Q. All the crossings in Ferndale?

8 A. Yeah. All the signalized crossings in  
9 Ferndale do have predictors.

10 Q. Are they all set for that standard you  
11 mentioned of minimum 20-second warning?

12 A. Yes.

13 Q. Is there any kind of a fail-safe mechanism  
14 that's installed in the signals at the various  
15 crossings in Ferndale?

16 A. Yes.

17 Q. In other words, in case there's a failure  
18 of the system, what would happen?

19 A. All crossings' signal systems are designed  
20 to be a fail-safe system, and that is that if any  
21 component or vital component should fail, the crossing  
22 will be activated, the lights will flash, and the gate  
23 will come down to block the crossing. They are also  
24 designed with a battery backup system so that should  
25 the power fail, we don't have a dark crossing, it is



1 still protected and will function as a normal  
2 crossing.

3 Q. You've talked about how the roadway traffic  
4 will be warned of the approach of a train. With  
5 Amtrak and Burlington Northern both operating on the  
6 main line through this area, how will each of them  
7 know about the presence of the other train?

8 A. They really wouldn't have to know that  
9 there's another train out there. The dispatcher will  
10 be monitoring the movement of trains through the use  
11 of CTC in his board currently located in Seattle, and  
12 the wayside signals will govern the movement of the  
13 trains.

14 Q. What are the wayside signals?

15 A. That's the signals that control the  
16 movement of the train itself. They are located  
17 adjacent to the track at about two-mile intervals and  
18 they convey information to the train crew of what the  
19 condition of the track ahead is.

20 Q. So, for instance, let's say that there was  
21 a Burlington Northern train at -- near the old  
22 Thornton Road crossing which had not yet completely  
23 gotten over onto the siding track and there's an  
24 approaching Amtrak train. In that situation, what  
25 would the Amtrak train crew see?

1           A.       At the point where the -- or the BN train  
2 is diverging from the main line, there would be a red  
3 absolute signal for the Amtrak train to stop at.

4           Q.       What is a red absolute signal?

5           A.       That means that they have to stop. They  
6 have to stop before any part of the train or engine  
7 passes that signal. And in advance to that, there  
8 would be a solid yellow signal which is a warning that  
9 they are approaching a signal that is going to require  
10 a stop and they have to reduce to a speed that will  
11 allow them to make that stop at that absolute signal.

12          Q.       Do you have signal department people who  
13 are stationed in the area of Ferndale to do the  
14 maintenance on the signals?

15          A.       Yes. I have two signal maintainers, both  
16 of them are headquartered here at Ferndale. One of  
17 them is assigned to the territory that is Ferndale.  
18 The other one is assigned a territory that is south of  
19 Ferndale.

20          Q.       Are they on call in case there's any  
21 problem with the signal at any time?

22          A.       Yeah. Signal maintainer has probably got  
23 the worst job in the country. He's on call 24 hours a  
24 day, six days a week. He has one day off a week and  
25 on that day the adjoining maintainer swaps with him so

1 that there's always somebody available for call.

2 Q. Do the signal maintainers do periodic  
3 inspections of all the signal equipment?

4 A. Yes. On crossing signals, signal  
5 maintainer in ABS or CTC territory is required to do  
6 an inspection to determine that the signals are  
7 functioning, all the lights will burn. And he has to  
8 do that every two weeks.

9 Q. Let me show you what we've marked Exhibit 7  
10 (handing) for purposes of this hearing. What is  
11 that?

12 A. That's our Highway Grade Crossing  
13 Inspection Report. Every time that a maintainer or  
14 any signal person inspects that crossing, they are  
15 required to sign it, date it, the time that it was  
16 checked, and mark off whatever checks or inspections  
17 that they made.

18 Q. And how frequently do they perform these  
19 inspections?

20 A. They will -- on these crossings through  
21 town here they will do them every two weeks as far  
22 as basic inspection of the power, to determine that  
23 the light bulbs all light, that the crossing does  
24 activate properly. Then on a monthly basis they go  
25 through and check their battery backup system. On a

1 three-month inspection they come out and actually  
2 either observe a train going through the crossing and  
3 determine that the warning time is correct or they  
4 will place what we call a shunt: Go out and place a  
5 wire across the rails to activate the crossing. They  
6 have to do that on a three-month basis. And then on a  
7 six-month basis they go through and lubricate the  
8 gate mechanisms, clean all the light lenses, and  
9 check the lamp bulb, adjoining light bulbs.

10 MS. GIBSON: Thank you. I have no other  
11 questions.

12 JUDGE ANDERL: Okay. Mr. Cuillier, any  
13 cross for this witness?

14 MR. CUIILLIER: Thank you, your Honor.

15

16

CROSS-EXAMINATION

17 BY MR. CUIILLIER:

18 Q. Mr. Frazier, do you know if there are any  
19 efforts being made in the field of signalization to  
20 develop an effective signal that will keep vehicles  
21 from running the signal or going around the signal?

22 A. There's some different things being talked  
23 about. I've not seen anything that has been placed in  
24 service anywhere.

25 Q. What is being talked about?

1           A.       There's one company that's trying to  
2       develop a gate that would be suspended above the  
3       roadway and would actually drop down and entirely  
4       block the roadway to prevent any cars from getting  
5       into the crossing.  If there was a car that tried to  
6       drive through it, it's designed to stop the car before  
7       it would get to the crossing.  I'm not aware of any  
8       of those in service anywhere.  They are using them as  
9       runaway-truck stops on mountain grade and they are  
10      using them for protection of highway workers where  
11      they've got a lane or a partial closure of a highway.

12           Q.       Do you know when something like that might  
13      be available?

14           A.       No, I don't.

15           Q.       Do you have any idea as to what percentage  
16      of the highway-rail crossing accidents occur because  
17      people ignore this signal or the gate?

18           A.       At gated or signalized crossings, all  
19      accidents occur because people ignore the lights.

20           Q.       No, but how many of these accidents were at  
21      that type of crossing, do you know?

22           A.       I don't have those figures, no.

23           Q.       You don't even have a general vague idea of  
24      what percentage that would be?

25           A.       No.

1 MR. CUILIER: Okay, thank you. No other  
2 questions.

3 JUDGE ANDERL: Ms. Rendahl, any questions  
4 for this witness?

5 MS. RENDAHL: Yes, your Honor.

6

7

CROSS-EXAMINATION

8 BY MS. RENDAHL:

9 Q. Mr. Frazier, you were talking about the  
10 constant activation warning system, the signals. Will  
11 that -- that will give a constant 20-second warning  
12 time for both low speeds and high speeds, is that  
13 correct?

14 A. It'll give a minimum of 20 seconds warning  
15 for the train regardless of the speed above two miles  
16 an hour.

17 Q. You also discussed the configuration at the  
18 Washington Street grade crossing and the proposal to  
19 put two -- I'm not sure I have the acronym correct --  
20 HXPs?

21 A. That's correct.

22 Q. From looking at Exhibit 4, there appear  
23 to be four tracks that cross Washington Street, is  
24 that correct?

25 A. I believe that's correct, yes.

1 Q. Which of those tracks would these two --  
2 would this upgraded HXP system protect?

3 A. Well, the additional equipment would be  
4 placed -- there's a proposal to put a power switch  
5 location north of the crossing that would allow the  
6 trains to divert from the main line and get onto the  
7 siding. The additional equipment would look north of  
8 that switch. Because of the location of that switch  
9 and the way we have to signalize that, we would place  
10 insulated joints in the rail, and the existing  
11 activation equipment can't be coupled around those  
12 insulated joints that close to the crossing so we have  
13 to add additional equipment north of the crossing to  
14 activate the crossing from a southbound train. So the  
15 existing tracks that are in the crossing now, the  
16 existing activation equipment would remain the same on  
17 those four tracks. The additional equipment would be  
18 placed north of the crossing.

19 Q. I guess I'm still a little confused. If  
20 there were a train on the -- on any of those side  
21 tracks, not the main line, if there were -- if there  
22 were trains on any of those side tracks, would the  
23 signals at that crossing protect traffic going on  
24 Washington Street crossing the railroad tracks? Would  
25 it indicate if there was a train on any of those

1 four tracks?

2 A. Yes, it would.

3 Q. And that's the way it's currently  
4 configured?

5 A. That's correct.

6 Q. So the upgraded system is merely the timing  
7 again?

8 A. The upgraded system is being installed  
9 because of some additional changes that are going to  
10 be made north of the crossing to the track structure.

11 Q. Have you been here the entire day of  
12 testimony?

13 A. No, I have not.

14 Q. Were you here this afternoon when a member  
15 of the public discussed the fact that the city limit  
16 has now been extended north or will be extended north?

17 A. I heard his statements, yes.

18 Q. Can you tell me if there are any planned  
19 signalization changes for the Brown Road crossing?

20 A. Yes, I can. Give me just a minute here,  
21 I'll look it up.

22 At Brown Road we're just going to lengthen  
23 the approaches, again because of the higher train  
24 speeds. The existing equipment is constant warning  
25 devices with cantilevered signals and gates.



1 Q. And Brown Road would also be a part of the  
2 centralized traffic control system?

3 A. They would be included in that CTC  
4 territory, yes.

5 MS. RENDAHL: I have no further questions,  
6 your Honor.

7 JUDGE ANDERL: Okay, thank you.

8

9

EXAMINATION

10 BY JUDGE ANDERL:

11 Q. Mr. Frazier, you explained that the  
12 Bellingham to Blaine area will be moving to the CTC  
13 system from the existing system?

14 A. Yes.

15 Q. And the existing system is called what?

16 A. Automatic block or ABS.

17 Q. And you were describing a situation in  
18 which the engineer would see a yellow warning light  
19 before seeing a red light which told him to stop, and  
20 I was wondering is this CTC system one that will  
21 monitor the traffic constantly so that if the freight  
22 train were to move fully onto the siding track after  
23 the engineer saw the yellow warning light, that that  
24 later light would then be green.

25 A. Provided that things -- that at that

1 location the train had cleared the what we call the OS  
2 section of the switch, and was in the clear of the  
3 main line, and the dispatcher would have that signal,  
4 then that signal would be green if everything else  
5 allowed it to come to that, to go green.

6 Q. And that happens virtually immediately upon  
7 the dispatcher's request?

8 A. Yeah, provided that there's nothing else on  
9 the track out there that would prevent it from  
10 clearing.

11 Q. Right. Mr. Frazier, just so that the  
12 record is clear, when a gate goes down on a railway  
13 crossing, is it correct that it only blocks the lane  
14 of traffic that is facing the railroad track, it  
15 doesn't extend across both lanes of, say, a two-lane  
16 roadway?

17 A. That's correct.

18 Q. So when people describe driving around the  
19 gates, that's how people are able to drive around the  
20 gates?

21 A. Yes. They drive over into the opposing  
22 traffic lanes to get around the end of the gate.

23 Q. Has a gate ever been developed or discussed  
24 that would extend across, say, both lanes of a  
25 two-lane road or is that practical?

1           A.       There's talk of what they call four-  
2 quadrant gates which would be four gates at a two-lane  
3 crossing that would block both the access and egress  
4 of the crossing.

5           Q.       Okay.  Are those in use anywhere that you  
6 know of?

7           A.       Not on Burlington Northern.

8           Q.       Okay.

9           A.       Well, I shouldn't say that.  We do have one  
10 four-quadrant gate system.  It's on an industry track  
11 in Auburn that the track is no longer being used.  In  
12 fact, I don't think they ever put a car across that  
13 crossing.

14          Q.       I guess that's a safe crossing then.

15                    JUDGE ANDERL:  All right.  Anything on  
16 redirect?

17                    MS. CUSHMAN:  Could I ask one cross  
18 question, please?

19                    JUDGE ANDERL:  Okay.  Sure.

20

21                                    CROSS-EXAMINATION

22 BY MS. CUSHMAN:

23          Q.       Earlier you discussed the absolute red  
24 signal and then you talked about there's a yellow  
25 signal that precedes the absolute red signal.  Isn't

1 it true that when an engineer sees the yellow warning  
2 signal, they must slow to 35 miles per hour and  
3 prepare to stop, it's a mandatory procedure?

4 A. Yes. Yes.

5 MS. CUSHMAN: Thank you.

6 JUDGE ANDERL: Anything else for this  
7 witness?

8 MS. GIBSON: Nothing else.

9 JUDGE ANDERL: Thank you for your  
10 testimony, Mr. Frazier. You may step down.

11 MS. GIBSON: Are we taking a break?

12 JUDGE ANDERL: Who's your next witness?

13 MS. GIBSON: James Kime. I'm taking them  
14 out of order, you probably noticed.

15 JUDGE ANDERL: I see that.

16 MS. GIBSON: That's what schedules are for,  
17 you know.

18 JUDGE ANDERL: Let's go ahead and take two  
19 short breaks this afternoon. Maybe that'll be a  
20 little bit easier on people. Let's take about eight  
21 to ten minutes right now.

22 (Recess.)

23 JUDGE ANDERL: Let's be back on the record  
24 after our afternoon recess. While we were off the  
25 record, the next witness has taken the stand. Sir,

1 if you would raise your right hand, please.

2 Whereupon,

3 JAMES L. KIME,

4 having been first duly sworn, was called as a witness

5 herein and was examined and testified as follows:

6

7 DIRECT EXAMINATION

8 BY MS. GIBSON:

9 Q. Will you say your full name for the record,  
10 please.

11 A. James L. Kime, K I M E.

12 Q. What is your occupation, Mr. Kime?

13 A. Manager of operating practices for the  
14 Burlington Northern Railroad.

15 Q. Where do you work out of now?

16 A. Cascade division at Everett, Washington.

17 Q. What are your duties in that position?

18 A. My duties are basically to write and  
19 certify and qualify locomotive engineers for licensing  
20 per the federal regulations.

21 Q. What prior positions have you held at  
22 Burlington Northern?

23 A. I have come up through the ranks as a  
24 brakeman, switchman, locomotive engineer, road  
25 foreman, trainmaster, and now manager of operating

1 practices.

2 Q. Working out of Everett is the track that  
3 runs through Ferndale. Is that part of the territory  
4 that you supervise engineers on?

5 A. Yes, it is.

6 Q. Are you aware of how many through freight  
7 trains operate per day on this track?

8 A. Yes. We operate four -- three trains each  
9 direction each day, making a total of six through  
10 freights per day.

11 Q. And just on a real general basis, would you  
12 be able to estimate how many rail cars are in a  
13 typical train, a through train?

14 A. A typical train would have between 80 and  
15 100 cars.

16 Q. And so in terms of feet, how many is that  
17 generally?

18 A. Well, it's real difficult to say the exact  
19 length of a train because of the variation of the  
20 length of the cars that we handle, but on an average,  
21 our trains are in excess of 7,000 feet.

22 Q. Are there also local trains that operate on  
23 this line?

24 A. Yes, there are. There are three locals out  
25 of Bellingham that operate through the Ferndale area.

1 Q. For anyone who doesn't know the difference  
2 between local and through trains, could you explain  
3 that?

4 A. A through train is, for example, called on  
5 duty at Everett, Washington and the crew goes through  
6 to Vancouver, British Columbia, ties up for rest, and  
7 then the following day, or eight hours later or  
8 whatever, returns from Vancouver back to Everett.

9 A local would, like, go on duty at  
10 Bellingham, go out to an outlying point such as  
11 Intalco or Ferndale or Cherry Point and return back to  
12 Bellingham to tie up for the completion of their tour.

13 Q. If the Thornton Road crossing were to  
14 remain open and somehow Amtrak's service was started,  
15 could you explain what Burlington Northern crews would  
16 have to do in order to move out of the way of the  
17 Amtrak trains?

18 A. Well, we would have to send a brakeman or  
19 conductor back from the head end of the train, walk  
20 back on foot, or stop the train twice. We could stop  
21 and let him off at the crossing and then pull the  
22 train on in and through radio communication with the  
23 engineer sever or break the train in two to open the  
24 crossing.

25 Q. Okay. If a crewman has to walk back, how

1 long would that take roughly?

2 A. Well, the Thornton Road crossing is  
3 approximately three-quarters of the way back from the  
4 south end of the existing siding as it is known now,  
5 and so where the siding is 6,600 feet long, so you're  
6 looking at walking in the neighborhood of  
7 three-quarters of a mile and you're talking absolute  
8 minimum of 20 to 30 minutes.

9 Q. What would the ground surface be that the  
10 person was walking on?

11 A. It would be very uneven. It would be  
12 walking on ballast.

13 Q. And ballast is main line -- is rock?

14 A. Is rock, yes. Approximately two to three  
15 inches in diameter.

16 Q. All right. Then what would they do then  
17 when the crewman got to the area of the train that he  
18 wanted to be at at the crossing?

19 A. Then they would have to, of course, turn the  
20 angle cock or stop the airflow through the train and  
21 lift the pin lifter and give the engineer a signal to  
22 go ahead.

23 Q. What are the angle cock and pin lifter?

24 A. The angle cock is a device on the train  
25 line or the main air line of the train that allows air



1 to flow from the engine back to the last car in the  
2 train.

3 Q. What does the air do?

4 A. The air is what applies and releases the  
5 automatic air brakes.

6 Q. So the angle cock is located on each rail  
7 car then?

8 A. Yes. There's one on each end of each rail  
9 car.

10 Q. And the pin lifter, what is that?

11 A. The pin lifter is a device used for  
12 uncoupling the cars.

13 Q. Can you explain what a coupling device is?

14 A. A coupling device is the mechanism that  
15 allows us to put locomotives and cars together and  
16 move trains of any length.

17 Q. And how does the pin lifter on the coupler  
18 device function then to allow cars to either be put  
19 together or to be separated?

20 A. The pin lifter would be similar to like a  
21 doorknob on a door. You turn the doorknob to open the  
22 door, you lift the pin lifter to disengage the  
23 mechanism, allowing the car to be separated.

24 Q. What would the crewman then have to do  
25 after he had walked back to the crossing, moved the

1 angle cock and lifted the pin lifter?

2 A. Then the engineer would pull the train  
3 ahead a sufficient distance to allow vehicles to  
4 traverse the crossing, and stop, and then they would  
5 wait.

6 Q. Wait until the Amtrak train passed?

7 A. Yes, until the Amtrak or the other train --  
8 another train passed, and then simply reverse the  
9 procedure to couple the train back together again.

10 Q. And then the crew member at the crossing  
11 would have to walk to the head end again?

12 A. Yes, he would.

13 Q. When we say head end, that's the  
14 locomotive?

15 A. Yes.

16 Q. How long would you estimate that whole  
17 process would take?

18 A. Not including the time waiting for the  
19 train, you're looking at a minimum of 45 minutes.

20 Q. Does Burlington Northern have projections  
21 about future business on the tracks in this area of  
22 Ferndale?

23 A. Of course we're a transportation company  
24 and we're always looking for additional business and  
25 our business has substantially increased over the last

1 few years.

2 Q. What kind of trend have you seen in the  
3 last few years?

4 A. We primarily operate general merchandise  
5 trains or intermodal type trains.

6 Q. Have you seen an increase or a decrease in  
7 freight moving on this line in the last few years?

8 A. Significant increase.

9 Q. What kind of increase, based on past years,  
10 are you expecting for this next calendar year?

11 A. Well, it's difficult to project the actual  
12 increase. We are hoping for, of course, 30 to 40  
13 percent increase.

14 Q. And you have some statistic with you, don't  
15 you, about recent years?

16 A. Yes, I do.

17 Q. Would you look at those and tell me do you  
18 have statistics for 1993 traffic?

19 A. This is in total cars, 1993 on this area up  
20 here we operated 176,000 cars.

21 Q. And was that some kind of an increase over  
22 the previous year?

23 A. That was an 11 percent increase over 1992.

24 Q. And so far in calendar year 1994 are you  
25 seeing any percentage increase over the same period

1 in '93?

2 A. Yes, we have. From January of '94 to  
3 -- compared to January of 1992, we have seen a 21  
4 percent increase. And then from January of '94 back  
5 to January of 1991 we have experienced a 43 percent  
6 increase.

7 Q. This increase in freight traffic, is this  
8 freight that would otherwise be going on the  
9 interstate highway system?

10 A. Yes, it very possibly would.

11 MS. GIBSON: All right. Thank you, Mr.  
12 Kime. I don't have anything else at this point.

13 JUDGE ANDERL: Any cross for this witness,  
14 Mr. Cuillier?

15

16 CROSS-EXAMINATION

17 BY MR. CUIILLIER:

18 Q. I'm sorry. I misunderstood the increase  
19 this year over the comparable months of last year.

20 A. From January of 1992 to January of 1994, in  
21 other words, the increase in 1993 was 21 percent over  
22 the previous year.

23 Q. But so far this year over last year from  
24 January to September, you don't have those figures?

25 A. I'm sorry, I don't understand. From

1 January when?

2 Q. Has it increased this year in '94 over '93  
3 or do you have those figures?

4 A. I only have the figures up to January  
5 of '94.

6 Q. Okay. Thank you. I thought that's what I  
7 heard.

8 How many times a day for -- let's assume  
9 that the Thornton Road is not converted into an  
10 arterial for a number of years. The procedure that  
11 you have indicated as far as uncoupling the trains and  
12 so on would be necessary, at most, twice a day for the  
13 next year, right? You'll have one passenger train  
14 going north and one south each day?

15 A. That's correct.

16 Q. And you won't always have your passenger  
17 train passing a freight train at that particular  
18 siding, I assume?

19 A. Very possibly, yes.

20 Q. I mean, possibly that will be even less of  
21 an inconvenience than twice a day, correct? Do you  
22 see what I'm asking? It's possible that if you don't  
23 have to use that siding to let the Amtrak pass on one  
24 or the other or both of the trips each day, there  
25 won't be any uncoupling?

1           A.     It's also possible that Amtrak will meet  
2 there and then the uncoupling would be --

3           Q.     -- twice?

4           A.     But to answer your question, yes, if Amtrak  
5 doesn't meet their -- if we meet any train there, as  
6 far as that goes, we're required by law to uncouple  
7 that and clear that crossing, so it would be a delay  
8 to meet any train, not just Amtrak.

9           Q.     But this siding is primarily to be used  
10 because of Amtrak, I understand, is that not correct?

11          A.     It would be, yes. It would be. We're  
12 asking for an extension because of Amtrak, yes, and to  
13 close the crossing because of Amtrak, yes.

14          Q.     But are you saying that there will be  
15 freight crossing there?

16          A.     Certainly.

17          Q.     Is that going -- is that going to be a  
18 frequent occasion, do you think?

19          A.     That's a question that I can't answer  
20 because the freight trains do not run on schedule.

21          Q.     Okay. I assume that instead of having  
22 somebody walk back three-quarters of a mile to  
23 uncouple these cars, they would let the person off at  
24 the crossing normally, wouldn't they?

25          A.     I would say yes.

1 Q. Do they do this routinely at other  
2 crossings in the state or nation? This is not an  
3 unusual method of clearing a crossing, is it?

4 A. It's the only method of clearing a crossing  
5 that we have.

6 Q. And clearing a crossing is not an unusual  
7 thing to have to do, is it?

8 A. No.

9 Q. You do that at a lot of crossings, I  
10 assume?

11 A. Every time we stop and block one, yes, we do  
12 it. I wouldn't say at a lot. We try and if we can,  
13 we'll hold back behind the crossing and wait for the  
14 other train to come in, but with the passenger  
15 schedule that Amtrak is asking for, we don't have that  
16 luxury.

17 Q. In fact, that's exactly what occurs at the  
18 Washington Street crossing at the city of Ferndale  
19 right now, right?

20 A. Yes.

21 MR. CUILLIER: Okay. Thank you. I believe  
22 that's all.

23 JUDGE ANDERL: Ms. Rendahl?

24

25

CROSS-EXAMINATION

1 BY MS. RENDAHL:

2 Q. Mr. Kime, is a 9,000-foot siding track  
3 that's similar to the one that's been proposed in  
4 Ferndale, is that fairly typical of the length of side  
5 tracks along the -- I guess in your region, the  
6 Cascade region?

7 A. No. That's what we would like to have for  
8 all crossings -- or all sidings, but I can't tell you  
9 the average length of sidings.

10 Q. Is it fairly typical of the sidings in the  
11 Burlington Northern system?

12 A. Yes. If anything, it would be on the short  
13 side for the whole system.

14 Q. Concerning the Thornton Road crossing and  
15 your testimony about it taking a minimum of 45 minutes  
16 to have somebody walk back from the head end, uncouple  
17 the train, wait for the train, that's your estimate of  
18 time if the Thornton Road crossing were to remain open  
19 and the train were to be cut or split?

20 A. Yes. That is not counting the length of  
21 time that it would take for the opposing train to get  
22 there and pass.

23 Q. So the 45 minutes is just the time to walk  
24 back, cut the train in half, and then --

25 A. Yes.



1 Q. -- recouple the train and walk back to the  
2 head end?

3 A. Yes.

4 Q. Concerning cutting a train or splitting a  
5 train, I don't know if you're the witness to testify  
6 to this, but what's the distance from the crossing on  
7 each end, from the midpoint of the road, what's the  
8 distance beyond which you would cut a train? How far  
9 apart would the train be?

10 A. Oh. If length of the siding permits, we  
11 require that they leave 300 feet on each side of the  
12 crossing.

13 Q. Just one more question. You talked about  
14 having someone walk back from the head end of the  
15 train. Do any BN trains have cabooses?

16 A. Yes.

17 Q. So would there be situations where you  
18 would have somebody walking a shorter distance back up  
19 from the caboose as opposed to back from the head end?

20 A. That is possible.

21 Q. What percentage of trains have cabooses?

22 A. One percent or less.

23 MS. RENDAHL: I have no further questions,  
24 your Honor.

25

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EXAMINATION

BY JUDGE ANDERL:

Q. Okay. I have a clarifying question or two. Perhaps I misunderstood this. Are you saying that if a Thornton Street grade crossing stays open, you are required by some law or regulation to split the train when it sits at that crossing?

A. Yes, your Honor.

Q. So you wouldn't be doing it as a courtesy or convenience, you would be doing it because you have to?

A. Yes, ma'am.

Q. Where, if you know -- strike that. Let's back up here. Do freight trains have to pass one another through the Ferndale area right now?

A. At this particular time I believe the Ferndale siding is used for storage of cars rather than passing or meeting trains.

Q. How is it controlled that trains don't meet or need to pass in the Ferndale area?

A. Well, because there's -- basically there's not an area for them to pass if they are using the siding as a storage track. See, what they do, is they will go on down to Bellingham or they will pass and meet up at Intalco. There's no siding at Intalco.

1 I'm not sure. I can't answer your question.

2 Q. Okay. So this is something that currently  
3 is controlled by your automatic block system?

4 A. Yes.

5 Q. So that even if the freight trains are not  
6 running on a schedule, there's advance notice as to  
7 when they are headed up or down the tracks?

8 A. Yes, there is.

9 Q. And if the Thornton Street crossing were to  
10 stay open at grade and you did use the siding track as  
11 passing track and you had to split the train, isn't it  
12 correct that much of the time that that took, the  
13 crossing would still be blocked by the whole train and  
14 that the train would actually be split for only a  
15 short period of that time?

16 A. That's right. Can I rephrase that? We do  
17 meet and -- meet trains at Ferndale. I'm sorry. I  
18 was thinking about Intalco is up -- the next one up is  
19 the storage track. We do meet and pass trains at  
20 Ferndale now.

21 Q. And how do you do that?

22 A. Well, the dispatcher determines which train  
23 will take the siding and which train holds the main  
24 line, and they issue them a track warrant stating  
25 which train they want to go in the siding and which

1 train holds the main line.

2 Q. Do you have any knowledge about how the  
3 dispatcher makes that decision? Does it have to do  
4 with the length of the train --

5 A. I'm sure.

6 Q. -- and the width?

7 A. I don't know. I think a lot of it is on  
8 who's going to get there first.

9 Q. And do you know then since you revised your  
10 answer, whether you currently do have to split the  
11 train at the Thornton Street grade crossing?

12 A. If they block it, they do, yes. They are  
13 supposed to.

14 Q. You testified that whole procedure would  
15 take approximately 45 minutes --

16 A. (Nods head.)

17 Q. -- and based on some cross-examination  
18 questions, maybe less if you dropped the employee off  
19 rather than made them walk back?

20 A. That's correct.

21 Q. About how much of the total time that that  
22 took would you say the crossing would still be blocked  
23 because the train was there or how much of that time  
24 would the crossing be open with split train, if you  
25 can tell me?

1           A.     If they had to walk both directions, the  
2 crossing would -- out of the 45 minutes, the crossing  
3 would probably be open five minutes.

4           Q.     And then if they didn't have to walk, then  
5 maybe the whole procedure would only take about 20  
6 minutes?

7           A.     Yes. But the crossing would still be only  
8 open five minutes, depending on how close the opposing  
9 train was and how quickly they got back.

10           JUDGE ANDERL: Okay, thanks, Mr. Kime, for  
11 your testimony. Is there any redirect?

12

13

REDIRECT EXAMINATION

14 BY MS. GIBSON:

15           Q.     I have a few questions. This projected  
16 increase in freight traffic that you talked about  
17 earlier, does that translate to potentially longer  
18 trains in the future?

19           A.     Yes, it would.

20           Q.     Has the existence or the passage of the  
21 North American Free Trade Agreement affected the  
22 business on this line at all?

23           A.     I couldn't answer that.

24           Q.     Okay. Can you explain what a saw, S A W,  
25 new word, by, BY, move is?

1           A.       Yes. A saw by is when you have a train --  
2 one train is too long for the existing passing track,  
3 so what they do -- what we do is we will pull a train  
4 partially in the siding and then the other train comes  
5 up and stops if he's short enough on the main line, to  
6 let the second train pull out the opposing end of the  
7 track. Does that make sense?

8                   MS. GIBSON: Thank you. Nothing else.

9                   JUDGE ANDERL: Anything on recross? Mr.  
10 Cuillier?

11                   MR. CUILLIER: No.

12                   JUDGE ANDERL: Ms. Rendahl?

13

14                                   RE CROSS-EXAMINATION

15 BY MS. RENDAHL:

16           Q.       I would just like to ask Mr. Kime to  
17 explain what a track warrant is, to clarify the  
18 record.

19           A.       A track warrant is the authority for a  
20 train in ABS or automatic block system to occupy the  
21 main track. And this is issued by the train  
22 dispatcher in Seattle. It gives the train the  
23 authority to move from point A to point B, and if he's  
24 got another train coming from point B to point A, then  
25 he has got to arrange a meeting point that is

1 conducive to both trains, and both trains must be  
2 aware of that meeting point when the orders are put  
3 out or the track warrant is put out. Does that answer  
4 your question? A track warrant is nothing more than  
5 an authority to the main track.

6 MS. RENDAHL: That's sufficient.

7 JUDGE ANDERL: Anything else?

8 MS. GIBSON: Nothing else.

9 JUDGE ANDERL: Thank you, Mr. Kime, for  
10 your testimony. You may step down. Next witness?

11 MS. GIBSON: Marvin Nelson, please.

12 JUDGE ANDERL: Mr. Nelson, would you raise  
13 your right hand, please.

14 Whereupon,

15 MARVIN J. NELSON,  
16 having been first duly sworn, was called as a witness  
17 herein and was examined and testified as follows:

18

19 DIRECT EXAMINATION

20 BY MS. GIBSON:

21 Q. Would you say your full name for the  
22 record, please.

23 A. Marvin J. Nelson.

24 Q. By whom are you employed?

25 A. Burlington Northern railroad.

1 Q. What is your position?

2 A. My current title is senior manager of  
3 engineering.

4 Q. And what are your duties in that position,  
5 Mr. Nelson?

6 A. My primary duties in the position of senior  
7 manager of engineering are working on passenger-  
8 related projects, commuter-related projects, the  
9 entire Burlington Northern system. With this program  
10 out in the state of Washington, I'm spending a  
11 majority of my time on this project.

12 Q. What other positions have you held at  
13 Burlington Northern?

14 A. Worked at Burlington Northern railroad 28  
15 years now and I started out -- I've been in the road  
16 master or roadway supervisor position. I've been  
17 working in the bridge inspection maintenance programs,  
18 worked in building plans. I worked in system  
19 engineering planning at headquarters in St. Paul,  
20 Minnesota. I spent ten years as regional engineer in  
21 Chicago and in that part of the job there we worked  
22 with the commuter railroad in Chicago. They run as  
23 high as 70 commuter trains a day, and this included  
24 the state of Iowa, Illinois, Wisconsin, parts of  
25 Nebraska, and included all of the engineering type



1 activities for anything associated with the railroad.

2 Q. What is your educational background?

3 A. I have a degree in civil engineering and  
4 I'm a registered professional engineer in the state of  
5 Washington.

6 Q. You alluded to your current project, and  
7 what project is that?

8 A. The project I alluded to is the State of  
9 Washington program to initiate high speed rail service  
10 in the state of Washington, and at which the first  
11 part is to start the service from Seattle to  
12 Vancouver, B.C.

13 Q. Can you explain how you went about choosing  
14 the sites for the project?

15 A. We've had a lot of information here today.

16 JUDGE ANDERL: And you're referring now to  
17 the map which is Exhibit Number 5?

18 MS. GIBSON: Five.

19 A. We've been working on this project  
20 approximately a year -- just about two years now since  
21 we started, and about a year ago January, last  
22 January, we went out and worked with the State of  
23 Washington and decided what we're trying to do as far  
24 as what kind of new service to put on. So with that  
25 in mind, we then went out and looked at all of our

1 current freight operations, our current facilities,  
2 and we knew we needed to make improvements that would  
3 allow the train to achieve their objective of three  
4 hours and fifty-five minutes, and to do this we had to  
5 make speed increases to allow the trains to run  
6 faster, but more importantly than that, we had to make  
7 improvements to allow the trains to operate without  
8 other train meets.

9           And we went through and in this analysis we  
10 had several trips up and down in a high rail vehicle,  
11 as mentioned earlier, with the local supervisory  
12 people. We had the people from the dispatching,  
13 planning center run the train schedules, the freight,  
14 along with the Amtrak trains that would be proposed to  
15 operate, and totally looked at every aspect of the  
16 railroad outer, the inspection of tracks. Then we  
17 went out and looked at the facilities on the ground.

18           What we then looked at was where we needed  
19 locations to allow the passenger trains to meet. And  
20 one of the things that kind of stands out at Everett  
21 down here (pointing) going into Seattle, there  
22 currently is an Amtrak train and from that point into  
23 Seattle we basically have majority of double track so  
24 the trains could make meets. We go up here in a place  
25 called Spruce, B.C., which is about ten miles from

1 downtown Vancouver, that also is a location where  
2 there's double track into downtown so the trains could  
3 operate there without interference with each other.  
4 Between these two points there's a basic distance of  
5 about 110 miles where there's mostly single track and  
6 with some short sidings on there.

7           And running the traffic analysis and going  
8 through and determining what speeds we could run --  
9 safe speeds we could run, it was found out that we  
10 could basically run a simulation to make this whole  
11 route in three hours and fifty-five minutes by making  
12 a lot of improvements to the track structure, to the  
13 signal system, and then adding these here capacities  
14 to allow the trains to meet.

15           One of the prime considerations when we did  
16 all the studies was we wanted to be sure that the  
17 customers that we now have serviced along this  
18 corridor would still remain good, viable freight  
19 service.

20           The comments that have been here earlier  
21 that the average train is about 7,000 feet and some  
22 sidings are up to 8,500 feet, the majority of our  
23 current sidings will not allow a train more than  
24 6,000 feet in there without blocking a crossing, so we  
25 knew we had to do something to allow these trains to

1 be out of the way.

2 One of the things that we had looked at is  
3 when you leave Everett -- if a passenger train was to  
4 leave Everett and go north, before that freight train  
5 -- if a longer freight train was to leave Canada and  
6 he couldn't make a place to make a meet, he would have  
7 to wait two hours twenty-seven minutes before that  
8 passenger train got up there, and we could not accept  
9 that type of a delay.

10 These numbers that we have here, we got  
11 miles, and at each one of these, these are between  
12 proposed improvement points where the trains could  
13 make meets. The first number on the top is a mile.  
14 That's the railroad miles between the points where  
15 they pull from one siding into the next.

16 The next number underneath that is the  
17 minutes of time based on computer runs that passenger  
18 train would take to actually go from one point to the  
19 other. And that time is with all the improvements in  
20 place, and that includes increase in the track  
21 structure, adding a new rail, signal improvements, and  
22 removing some existing restrictions on the road  
23 crossings -- or on, excuse me -- in the city  
24 restrictions.

25 And below that number there is some

1 locations a freight train would be increasing the  
2 speed and what the actual freight train would operate  
3 under normal conditions.

4 So we're looking at all this here, and in  
5 between these areas we couldn't make a meet. To  
6 minimize the impacts of the freight service, we have  
7 to be able to move the freight trains and not wait two  
8 and a half hours twice a day either one end or the  
9 other, or if a train left Everett, the freight train  
10 would overtake it so he couldn't leave until the  
11 freight train got ahead of it.

12 Q. You mean the passenger train?

13 A. The passenger train would overtake it  
14 because it would be running faster. We looked at all  
15 the things and decided we needed -- in the vicinity of  
16 the current siding at Bow, Ferndale, and Blaine's  
17 customs area we needed to have capacity for the trains  
18 to meet. This would allow a freight train to leave  
19 Everett, get up here, clear this siding, while a  
20 freight train or passenger train came down from  
21 Canada, and this would minimize any delays that would  
22 impact freight service by having the choice of doing  
23 those activities out here that would help be able to  
24 allow our freight operations to coexist and give  
25 service to a customer that would need it.

1 Q. That three hour and fifty-five minute run  
2 for Amtrak, does that consider any interference with  
3 freight trains, any freight train traffic?

4 A. That three hours and fifty-five minutes  
5 included -- considered the fact that there are no  
6 other trains interfering with it, would not have to  
7 make a saw by meet or would not have to slow down  
8 because of another train ahead of it, because it would  
9 not be running at a faster speed than the freight  
10 trains.

11 Q. Earlier we had the question posed by the  
12 judge about how did freight trains get out of the way  
13 of Amtrak when it was operating in the early 1980s and  
14 prior to that. Do you know?

15 A. I'm not exactly sure how they got out of  
16 the way at that point in time. I know we looked at  
17 some of the record of the traffic in 1980, prior to  
18 Amtrak coming back. The traffic in 1981 when Amtrak  
19 ceased operation was less than half the traffic we are  
20 enjoying now in 1993 when we first started the study.

21 Q. Freight traffic you mean?

22 A. Yes. And so there was a lot less out there  
23 to affect Amtrak operations at that time.

24 Q. And Amtrak was operating on a much longer  
25 schedule than three hours and fifty-five minutes?

1           A.       That is my understanding, yes.

2           Q.       And how did you determine the speeds that  
3 Amtrak would have to travel? We know that you arrived  
4 at three hours and fifty-five minutes, but how was  
5 that determined?

6           A.       We went through and we looked at every part  
7 of the track. We looked at every speed restriction  
8 where the trains could not run 79 miles per hour. We  
9 looked at every curve on the route to make sure that  
10 we were running the fastest speed that the curve would  
11 allow by FRA standards.

12                   And as information on the route between  
13 Seattle and Vancouver, B.C., there are 220 curves, 150  
14 miles. The total length of those curves is about 51  
15 miles. And all those curves had various speed  
16 restrictions on them and some of them were as low as  
17 20, 25 miles an hour. So to get a good average speed  
18 with these natural constraints, it was very difficult  
19 to get the desired running time, so we looked at every  
20 curve, we made every curve as fast as we could, we  
21 looked at speed restrictions in communities, gaining  
22 additional time.

23                   And when we talk about 150-some miles of  
24 route and we have 51 miles of curve that restrict the  
25 speed, the distance between these curves too would

1 have to be controlled and maintained, so over 70  
2 percent of your mileage is restricted by curvature.  
3 As we were up here, Chuckanut Drive area, down along  
4 the waterfront from Seattle to Everett, all these  
5 areas are very curvy. So to maintain and get a  
6 four-hour speed with these physical constraints and  
7 stay within FRA standards, we had to look at every  
8 possible area where the trains could run faster to get  
9 down to the three fifty-five.

10 Q. You've had earlier testimony about the  
11 speed limit increases for passenger trains that are  
12 requested here in Ferndale. Is each of those requests  
13 crucial to the completion of this project?

14 A. Yes.

15 Q. Why?

16 A. Every increase that was out there, every  
17 area where they could increase it because of not a  
18 physical constraint was had to be done. If we didn't  
19 do every one of those, we could not have made the  
20 three hours and fifty-five minutes schedule.

21 Q. Now, I see you have the copy of Exhibit 3,  
22 the FRA Track Safety Standards booklet.

23 A. Yes, I do.

24 Q. What does this booklet contain, just very  
25 generally?



1           A.       That's a booklet that contains all the  
2 track maintenance standards for the different classes  
3 of railroad. It includes the procedures that you have  
4 to do to inspect track and it includes everything that  
5 is necessary to maintain the class of track for the  
6 level of service proposed.

7           Q.       According to the FRA standards, what class  
8 of track is the line that passes through Ferndale?

9           A.       The line currently and will be in the  
10 future is FRA Class 4 track.

11          Q.       And is that diagrammed on page 10 of  
12 Exhibit 3?

13          A.       Yes, it is.

14          Q.       According to the FRA standards, Class 4  
15 track is capable of moving trains -- passenger trains  
16 at what speed?

17          A.       Maximum speed of 80 miles an hour.

18          Q.       Now, does this booklet, Exhibit 3, does it  
19 also include the kinds of maintenance and inspection  
20 that's required for Class 4 track?

21          A.       Yes, it does.

22          Q.       Does Burlington Northern follow those  
23 regulations?

24          A.       Burlington Northern follows all FRA  
25 regulations and most of our regulations for inspection

1 and maintenance are more strict and we maintain higher  
2 tolerance than FRA standards. These are minimum  
3 guidelines.

4 Q. What kinds of maintenance and inspection  
5 are performed on this track?

6 A. This track will be currently inspected  
7 twice a week, with additional inspections, a walk-in  
8 inspection, by the local track inspector. There's a  
9 track inspector that has assigned territory on the  
10 entire route.

11 Q. Does Burlington Northern have any detector  
12 cars and -- rail detector cars, anything of that sort?

13 A. Yes. Once a year we have what we call a  
14 geometry car.

15 Q. What is that?

16 A. A geometry car is a car that comes out and  
17 has a lot of electronic sensing equipment. It comes  
18 out and measures the smoothness of the track, it  
19 measures the gage of the track, it measures all key  
20 components of what we have to maintain the track  
21 condition to, the surface, the alignment. And the  
22 nice part about that car is that car is weighted down  
23 to represent the loaded car, so the measurements that  
24 you get are representing what's actually happening in  
25 the train. When this car goes through and does an

1 inspection, the local supervisor has people following  
2 the car, and if there's any defects or conditions  
3 found that need to be adjusted to meet the standards,  
4 they are done immediately.

5 Q. Are there any other special sorts of  
6 inspection cars that are used?

7 A. Yes. We also have a rail detector car.  
8 This is an ultrasonic testing device. This goes  
9 through and checks the rail for any internal defects  
10 and, similarly, this occurs once a year.

11 Q. Are there system planning inspections in  
12 addition to what you've mentioned?

13 A. Yes. In addition to the local inspector  
14 who has assigned territories here, we have a road  
15 master that goes out and checks on the track whenever  
16 he is available. He has a territory that's from the  
17 Kruse junction, which is north of Marysville, up  
18 to Vancouver, B.C. and the branch lines off of that.  
19 So he's out on a daily basis making spot inspections.  
20 The train crews whenever they see a condition or a  
21 soft spot or they feel something in the engine, they  
22 report it and local inspectors go out and make sure  
23 that they take corrective action as soon as possible.  
24 We have system-wide people that look at the  
25 entire railroad for expertise in checking for

1 defective ties. Other people are equally qualified to  
2 go out and make the inspection on the rail so it's  
3 well maintained and well inspected to make sure all  
4 the standards are met.

5 Q. Are there any planned improvements to the  
6 track itself in conjunction with this new Amtrak  
7 service?

8 A. In the Ferndale area, yes, there is, and  
9 I would like to highlight a few of these.

10 Q. You're looking at Exhibit 4.

11 A. Within the city of Ferndale, as was  
12 mentioned earlier, we're extending the current siding  
13 ending right at this location. We're extending --

14 Q. "This location" is -- we need for the  
15 record to say what it is here.

16 JUDGE ANDERL: Refer to the milepost.

17 A. Milepost 107.48 is the end of the current  
18 siding. We're constructing a new track and extending  
19 that 3,621 feet to the north. At the south end of the  
20 current siding there's a number 11 turnout. That  
21 turnout will be replaced with a new turnout for the  
22 higher rail size.

23 Q. What is a turnout?

24 A. A turnout is a switch, is where a rail car  
25 can make a movement from one track to the other.

1 Q. Any other improvements?

2 A. Yes. There are a lot of improvements  
3 within the city limits of Ferndale, and currently the  
4 track over the river here with the curve is welded  
5 rail. After you get out of the end of the welded  
6 rail, this is bolted rail.

7 JUDGE ANDERL: Where's that?

8 A. Bolted rail is 39-foot pieces of rail that  
9 are held together by joints.

10 JUDGE ANDERL: And that starts where?

11 Q. It starts at Washington?

12 A. That starts just north of the curve, right  
13 down at about milepost 106.1. That bolted rail will  
14 be replaced with new welded rail to a point well  
15 beyond the city limits of Ferndale. The purpose of  
16 doing that, of course, is to improve the ride quality  
17 for the passengers.

18 I guess the comparison would be if you go  
19 out on the highway where you have the joints in the  
20 concrete, that's kind of the way the impact you have  
21 if you were riding on a bolted rail. Amtrak and other  
22 -- Amtrak and the State of Washington people felt that  
23 a good ride quality was also important to make the  
24 people want to use the trains, so the welded rail is  
25 continuous rail, there's no joints, so it's like

1 riding on a nice smooth piece of pavement out there.  
2 That's another -- that's an important factor of giving  
3 good quality service.

4 In addition, right down at about across  
5 from the highway -- or the -- excuse me -- the school  
6 stadium here there's a new turnout put in. This  
7 allows the Amtrak train to pull into the siding and  
8 use this siding for their meets with the other train.  
9 The existing rail in the old siding that will be used  
10 for the meeting track will be upgraded and replaced  
11 with secondhand welded rail. There is an elevator  
12 track serving Ferndale Grain Company and a switch  
13 that will be put in new.

14 Q. Where is that located?

15 A. That's at milepost 106.29.

16 JUDGE ANDERL: Just for clarification,  
17 that's on the west side of the track, whereas all the  
18 other sidings are on the east?

19 THE WITNESS: Yes, that is on the west side  
20 of the track.

21 A. So in essence the entire main line track  
22 structure that the Amtrak train would be running on  
23 through Ferndale will be upgraded and renewed with  
24 continuous welded rail, new turnouts, to allow for the  
25 higher speeds to operate safely.

1 Q. When are these improvements going to be  
2 made?

3 A. The materials are sitting at the job site,  
4 parts of them. Currently the gang that is going to be  
5 doing that work is working just south of Mount Vernon  
6 on similar type work. They are moving northward and  
7 they will have all the similar type work done up to  
8 the Canadian border by January 1 of this -- end of  
9 this year.

10 Q. Thank you. You may take your seat again.  
11 In working on this project, have you and the people  
12 you've been working with made any provisions or  
13 proposals about access for the property owners or  
14 tenants who live on the east side of the Thornton Road  
15 crossing in the event of closure of that crossing?

16 A. Yes. When we did our initial site analysis  
17 and looking for locations, one of the many things that  
18 we had to consider was the maximum length of train of  
19 8,500 feet, and some of the conditions are we have a  
20 lot of wetland problems up in this part of the  
21 country, a lot of the ditches are wetland, so it's  
22 very difficult to construct new sidings. We have  
23 many, many areas where there's a highway, a road  
24 crossing where there's a lot of vehicles going over,  
25 most every mile. We got some major rivers scattered

1 up and down this line, some areas that we can't build  
2 because of big bridges, and so it is very difficult to  
3 find areas that we could build the desired length of  
4 siding and not have an impact on local areas.

5           So we had to choose areas that were the  
6 best candidate for that type of activity. And one of  
7 the things to minimize the impact to the environment  
8 -- we work very closely with the Washington Department  
9 of Ecology, the Corps of Engineers, and other people  
10 -- would be to use existing sidings and extend them.  
11 That would reduce the amount of new construction and  
12 reduce the amount of impacts to the environment.  
13 That's one of the prime considerations on that. And  
14 that's one of the reasons we looked at existing  
15 sidings. Also, of course, that reduced the amount of  
16 cost in the project.

17           When we looked at this here location, we  
18 looked at it several times. We come out and walked it  
19 and we felt there was only one at the time of the  
20 -- Thornton Road here -- at the time we looked at it,  
21 there was only one person living there that we could  
22 provide some alternate access to allow that person to  
23 get to their home and residence down off of Peace  
24 Portal Road with a driveway type access road, and that  
25 with the crossing in the middle of the siding would be



1 necessary to close the siding because of the train  
2 would be blocking it.

3 It was mentioned earlier about the average  
4 train length of 7,000 feet. On this crossing, this is  
5 the Thornton Road crossing (pointing) right at  
6 milepost 107.7, here is the (pointing) southerly end  
7 of where a train could park on the crossing.

8 JUDGE ANDERL: Where's that?

9 THE WITNESS: That is located at milepost  
10 106.44.

11 A. From that point north up to Thornton Road  
12 is 3,255 feet. With the new extension and up to  
13 milepost 108.16, the end of the area where I could  
14 park a train and clear the main line safely would  
15 allow for a distance of 5,345 feet, so all the trains  
16 that we're talking about in this area that exceed that  
17 5,345, people would have to be gone, which are  
18 basically all the trains that operate on this line,  
19 but we did choose the site because there was only one  
20 residence and we felt that we could offer that  
21 resident satisfactory access to their property.

22 JUDGE ANDERL: One resident east of the  
23 tracks?

24 THE WITNESS: One resident east of the  
25 track that would be affected by the closing of that

1 crossing.

2 Q. That was at the time that you were out  
3 there?

4 A. That is at the time we were out there a  
5 year ago when we started all these inspections.

6 Q. Did you then formulate an idea for this  
7 alternate access for this resident and propose it to  
8 the city?

9 A. Yes, we did. We looked at providing a  
10 roadway of sufficient size and alignment that would  
11 provide access for -- the driveway type access that  
12 was needed for that.

13 Q. And did you contain your ideas in Exhibit 2  
14 which is a letter to Mr. John Eley, E L E Y, of the  
15 City of Ferndale?

16 A. Yes. I wrote a letter on August 29  
17 proposing to Mr. Eley that we were proposing to  
18 construct this road, the city had property along the  
19 freeway right of way in which this road could be  
20 built, and we gave them a detailed design of what we  
21 proposed to build, and we asked Mr. Eley for their  
22 approval for the City of Ferndale to allow us to  
23 construct a road on their property. It would be done  
24 at no cost to the city. And that we would be using  
25 this as a construction access road, and then that

1 would be paved after the construction activity to  
2 repair any damage and that would provide an adequate  
3 access for the one person impacted by the crossing  
4 closing.

5 Q. Now, did that proposal consider that the  
6 access driveway would have to be constructed  
7 on, partially at least, on city property?

8 A. Yes, it did.

9 Q. And did you have a response from the city?

10 A. Yes. We did get a letter back and the city  
11 did not agree with us and rejected our offer to do  
12 this and turned the road over to it.

13 Q. Have you been working with the officials  
14 from the City of Ferndale throughout this process?

15 A. We've had some various meetings with them  
16 and have talked about various parts of this here, and  
17 we sent this letter on August 29 to make our official  
18 request to them for the approval of the roadway as  
19 well as putting it on the city property.

20 Q. In your discussions with city officials,  
21 have you made any modifications to the project at  
22 their request?

23 A. Yes. Initially the city said that they  
24 looked at this as an industrial site and that they  
25 would have to build a road to meet industrial

1 standards, which would be some 44-foot wide roadway  
2 with curbs and gutters, sewer lines, and we felt that  
3 it was more than needed to service one person, and we  
4 proposed a roadway to them that would be 22-foot wide  
5 with shoulders on either side, would be ten inches of  
6 gravel with three inches of asphalt, which is in  
7 excess of most of the county standards for similar  
8 type roads.

9 Q. Were there discussions about where to store  
10 cars within the city limits, that is, rail cars?

11 A. In the earlier -- one of the earlier  
12 proposals, we were going to build and store four  
13 tracks.

14 Q. Store what?

15 A. Four tracks at Ferndale.

16 Q. Where were you going to do that?

17 A. (Pointing) in the initial proposal, just  
18 north of the Thornton Road there would have been four  
19 tracks built and those tracks would have been built to  
20 store the cars that are now at Ferndale and some other  
21 locations. With long trains needing to be in the  
22 siding, we could not store the cars here. Through the  
23 process of putting out the NEPA, SEPA -- that's the  
24 National Environmental Protection Act and the State  
25 Environmental Protection Act -- would put out the

1 documentation to all of the local people, communities,  
2 to get responses, and a lot of the people from the  
3 Ferndale area were concerned about storage of rail  
4 cars at that location. We then went out and looked to  
5 find out if there was another location we could do  
6 that and we found the location we're now working on  
7 designed at what was known as the Cherry Point line.  
8 So this would allow the storage of the cars that are  
9 currently stored in Ferndale to be stored outside of  
10 the Ferndale city limits.

11 Q. And you are doing that part of the plan?

12 A. Yes. That part of the project is being  
13 progressed now.

14 Q. Even under that original proposal that you  
15 were working under, making the four lanes of storage  
16 tracks there above -- north of Thornton, would that  
17 have required closure of the crossing as well?

18 A. Yes, it would definitely have required  
19 closing of the crossing.

20 Q. How many businesses are serviced by  
21 Burlington Northern in Ferndale?

22 A. There are several businesses serviced by  
23 in Ferndale here, and as I mentioned, down here at  
24 this milepost 106.35, which is approximately 1,000  
25 foot north of the Washington Street, we saved that end

1 of the track to store cars on for local businesses.  
2 We have -- you have several businesses in Ferndale.  
3 We had Ferndale Grain Company here and they received  
4 fifteen to 1600 car loads a year, so we needed to  
5 maintain a portion of the existing tracks to service  
6 our local businesses.

7 In addition, there's another track --  
8 existing track off to the side we call a team track.  
9 A team track is a wider track. It has kind of a flat  
10 form off to the side. That track has about 50 cars a  
11 year that's brought in there for machinery, various  
12 miscellaneous materials, transformers for Bonneville  
13 Power, equipment for the refineries and other stuff,  
14 and that's one way they bring this heavy equipment  
15 into this area, and they unload it in the team track,  
16 and they haul it to the refineries or other  
17 facilities, so that normally records indicate about 50  
18 cars of that activity there a year.

19 Q. Will Burlington Northern's service to these  
20 businesses in the city of Ferndale change as a result  
21 of the reinitiation of Amtrak's service?

22 A. Yes. And that's always been one of our  
23 prime concerns, is to make sure that all businesses  
24 are served, and we wanted to make sure that the  
25 Ferndale Grain which ships fifteen to 1600 cars a year

1 has ability to keep servicing it.

2 Q. I had asked whether the service to them  
3 would change and you said yes. Did you mean no?

4 A. I guess no.

5 Q. Will there be any changes?

6 A. No. We're hoping that the services that we  
7 now provide we can provide in the future, yes.

8 MS. GIBSON: Thank you. No other  
9 questions.

10 JUDGE ANDERL: Okay. Any cross for this  
11 witness, Mr. Cuillier?

12 MR. CUIILLIER: Thank you, your Honor.

13

14 CROSS-EXAMINATION

15 BY MR. CUIILLIER:

16 Q. Mr. Nelson, there is a very large business  
17 called Samson Ocean Systems immediately west of the  
18 Thornton Road crossing.

19 JUDGE ANDERL: Can I get a spelling on  
20 that, please?

21 MR. CUIILLIER: Samson, S A M S O N, Ocean,  
22 O C E A N, Systems.

23 Q. Are you familiar with that business that's  
24 located right next to the crossing on the north side  
25 of Thornton?

1           A.       Yes.  I have driven by there several times  
2           and noticed that business.

3           Q.       And that's a very large building, is it  
4           not?

5           A.       It is a quite large building, yes.

6           Q.       And that business would use the Thornton  
7           connector to the Portal Way area, were that put in  
8           place, to get to the freeway?  Would that be -- or  
9           show us on the map, if you could, where they have to go  
10          now to get to the freeway from that business, if you  
11          don't mind.

12                    JUDGE ANDERL:  Well, actually it would be  
13          better if he described it --

14                    MR. CUILLIER:  Yes.

15                    JUDGE ANDERL:  -- for the record.

16          Q.       Can you describe for the record how they  
17          have to get to the freeway at this point in time from  
18          that location?

19          A.       I'm not exactly sure how they would --  
20          they have to get to the freeway, but the business  
21          you're referring to is located just immediately to the  
22          west of our track and north of the current Thornton  
23          Road and that's right at milepost 107.7.  And you  
24          would -- they would have several choices to come down  
25          to Malloy Drive, down to Washington Street, out onto



1 the freeway to the southbound or the northbound. Or  
2 they could, if they wanted to, extend down to Main  
3 Street, get down to the freeway. If they wanted to go  
4 north, they would go up to Grandview Road where --  
5 this intersection right here. Grandview Road is about  
6 seven-tenths of a mile from the Brown Trail crossing.  
7 So they do have several selections and opportunities  
8 to get out to the freeway with the current traffic and  
9 street patterns.

10 Q. Okay. Thank you. You can be seated if you  
11 wish.

12 Were you aware that they located there  
13 partly on the representations in the city's plans that  
14 there would be access to the freeway immediately from  
15 their place of business in the future?

16 A. I was not aware of that. That must be some  
17 local agreements that we didn't have access to.

18 Q. The property that we're addressing for an  
19 access road on the east side of the railroad tracks  
20 would be zoned manufacturing, is that your  
21 understanding?

22 A. I believe that's correct, yes.

23 Q. Could you estimate would 20 acres sound  
24 about right as far as the amount of property we're  
25 talking about between the freeway and the railroad

1 tracks?

2 A. I'm not exactly sure what the acreage and  
3 what area you're talking about.

4 Q. And you learned, in your work to try to  
5 develop some type of access here, that the city  
6 actually purchased all the property from Portal Way to  
7 the existing dead-end area of Thornton Road in order  
8 to put that connector in in the future, did you not?

9 A. Yes.

10 Q. And when you've offered here in your letter  
11 to install a road which would be satisfactory for one  
12 house, you somewhat overlooked the manufacturing  
13 potential of this 20 acres and perhaps its future  
14 development into many, many uses of an industrial  
15 nature? Would that be an accurate assessment of your  
16 approach on the offer here?

17 MS. GIBSON: I'll object to the form and  
18 it's argumentative also. Hasn't been established that  
19 it's 20 acres.

20 MR. CUILLIER: I'll rephrase it.

21 JUDGE ANDERL: Could you, please?

22 MR. CUILLIER: Yes.

23 Q. You basically overlooked the future likely  
24 use of the acreage between the freeway and the  
25 railroad when you offered to construct this access

1 road, correct?

2 A. We had conversations with the city and said  
3 their policy is when a new industry develops, they  
4 build half of the street on their side of the street,  
5 so our proposal was to them to build the center  
6 portion of the roadway, that way if the city -- or  
7 excuse me -- a developer or somebody else wanted to  
8 develop along that roadway, they could take that  
9 roadway, expand it, put the curb cuts and whatever  
10 service they need. This way the roadway as built  
11 would service the current needs and be very flexible  
12 into expanding into any future needs by the city or by  
13 a local developer.

14 Q. Isn't it most likely that what you proposed  
15 here would have to be torn out for an industrial grade  
16 roadway?

17 A. What you would probably have to do is add  
18 some more -- thicken the concrete, put some more  
19 asphalt on top to make it thicker and more strong.

20 Q. And your offer basically was to put in this  
21 type of roadway and then have the city assume the  
22 maintenance of it and take it over after you finished,  
23 is that correct?

24 A. That is correct.

25 Q. Have you had any discussions with the city

1 since the city's response to your letter here?

2 A. No, we have not had any further  
3 conversations.

4 Q. The sidings that you need in order to allow  
5 trains to pass to avoid two and a half hour waits are  
6 three from Ferndale to Vancouver, one at Custer, one  
7 at Ferndale -- excuse me -- from Bow to Vancouver --  
8 one at Bow, Ferndale, and Custer. Is that  
9 it, you need those? Is it Bow, Ferndale, and Blaine?

10 A. That is correct.

11 Q. And so it's basically between Custer and  
12 Blaine that you would be proposing the third one?

13 JUDGE ANDERL: I'm sorry, where's Custer?

14 Q. It's north of -- can you show the judge  
15 Custer on that map?

16 A. Yes. (Pointing.)

17 MR. CUILLIER: It's north of Ferndale.

18 THE WITNESS: Custer. And for point of  
19 reference, this is the Arco plant, this is Cherry  
20 Point.

21 JUDGE ANDERL: That doesn't tell me  
22 anything for the record really. Is there any sort of  
23 a --

24 THE WITNESS: Custer would be at about  
25 milepost 112.

1 JUDGE ANDERL: On the railroad tracks?

2 THE WITNESS: On the railroad which is  
3 about four miles north of the proposed extension at  
4 Ferndale.

5 JUDGE ANDERL: And you're saying Custer is  
6 due east of what, the refinery?

7 THE WITNESS: Custer is, yes, due east of  
8 the refinery.

9 JUDGE ANDERL: Okay, thanks.

10 Q. I'm sorry. I thought I heard you  
11 originally say that the proposed siding would be at  
12 Custer. But it's not at Custer?

13 A. No. The proposed siding would not be at  
14 Custer. It would be at Blaine.

15 Q. At Blaine. And is that within the city  
16 or --

17 A. This is at a new location outside of the  
18 city. This is a track being constructed to  
19 accommodate customs inspection, which is different  
20 than the train meets. All of the freight trains that  
21 enter the United States have to be inspected by  
22 customs people. Currently that is done on a main line  
23 at Blaine because there's no siding to put the train  
24 into. That operation takes normally an hour, and if  
25 the customs inspectors want to get real detailed, it

1 could take four hours, so that new siding that we show  
2 up there as being for customs inspection at Blaine  
3 most generally would not be available for train meet  
4 when you may need it when an Amtrak or train would be  
5 there at the same time, so we could not rely on that  
6 as part of our meeting, but we had to provide that to  
7 allow customs inspection without blocking the main  
8 line.

9 Q. Are there any sidings existing now between  
10 Bow and Everett?

11 A. Yes, there is.

12 Q. And do you plan to make any more sidings  
13 available there?

14 A. In the future programs, yes. When  
15 additional money is authorized by the Washington state  
16 legislature, there will be additional improvements  
17 made to make that longer section down there more  
18 flexible for train operations.

19 Q. It looks like except for the expense  
20 involved, there would be some flexibility in where  
21 that siding is in Ferndale. In other words, that  
22 siding -- given the distance between Bow and Blaine,  
23 or Bow and Vancouver even, that siding could be moved  
24 down south of Hovander Road between Hovander and  
25 Slater, which is a straight, level piece of track if

1 the expense weren't such that you had to build a new  
2 bed there, whatever, I assume?

3 A. We looked at every possible location, like  
4 I mentioned earlier, road crossings, major bridges  
5 over rivers, environmentalal areas, wetlands. We  
6 don't allow in curves the switchings to be put, and  
7 as I mentioned, about a third of the mileage on this  
8 track is curves, so we can't put switches in the curve  
9 because that would make it very difficult for the  
10 ride. You would have an impact on the ride when you  
11 went through the switch if it was in a curve, so  
12 there's many, many physical restrictions that we  
13 looked at and we took into consideration to find an  
14 area -- to find a track that has 8,500 feet without a  
15 siding.

16 Q. I'm sorry. I guess what I'm asking is,  
17 south of Hovander there is that footage, there are all  
18 the features you would need, to my knowledge. Did you  
19 have a reason for rejecting that other than the fact  
20 that there's no siding track in place there now?

21 A. I don't exactly recall, but it possibly  
22 would not allow us to build a track that was 8,500  
23 foot long. I'm not exactly sure of the measurements,  
24 but we looked at every place that we could.

25 Q. Maybe some of the other witnesses know.

1 Maybe it's the wetlands there or something. I'm not  
2 -- I was just curious why that was rejected.

3 The specific alternatives available other  
4 than Ferndale are not something that you would be able  
5 to address as to why they were rejected except in  
6 general terms, right?

7 A. They just -- you just couldn't make the  
8 track long enough without affecting a major highway or  
9 some other obstacle, as I mentioned earlier.

10 MR. CUILLIER: Thank you. No other  
11 questions.

12 JUDGE ANDERL: Ms. Rendahl, any questions?

13 MS. RENDAHL: Again, yes, I have some  
14 clarifying questions, Mr. Nelson.

15

16 CROSS-EXAMINATION

17 BY MS. RENDAHL:

18 Q. When you were referring to the project with  
19 the State of Washington, are you referring to the  
20 state Department of Transportation?

21 A. Yes, I am.

22 Q. And you referred in your testimony to there  
23 being several short sidings. What do you mean by  
24 short?

25 A. That would be a siding that currently would



1 not be long enough for the train to normally operate  
2 in a line at which some of the southbound trains get  
3 up to 8,500 feet and average 7,000 feet.

4 Q. Concerning some of the improvements to the  
5 track structure you discussed, you mentioned that,  
6 referring to Exhibit 4, that you would be replacing  
7 the switch at 107 -- milepost 107.48 and moving that  
8 switch up to the end of the new siding at 108.16 and  
9 putting in a new type of turnout?

10 A. Yes. That current turnout there would be  
11 replaced with a new high speed turnout to allow the  
12 passenger trains or the freight trains to enter into  
13 the siding faster. And it is important to do that.  
14 That's where you clear the main line quicker so other  
15 trains can pass.

16 Q. Just for clarification, is a turnout a  
17 switch? Are they the same term?

18 A. Yes. I guess I used both of those words,  
19 and they are the same.

20 Q. You also mentioned that north of milepost  
21 106.1 there's currently continuous welded rail and you  
22 will be replacing that rail with new rail, is that  
23 correct?

24 A. Starting at milepost 106.1 the bolted rail  
25 currently exists going north and we will be replacing

1 that with welded rail.

2 Q. What type of rail will you be replacing it  
3 with?

4 A. We will be using what is known as 136-pound  
5 rail. 136-pound rail is a rail three foot long that  
6 weigh 136 pounds. The rail will be welded in quarter-  
7 mile sections brought out to the site and then once  
8 it's installed in the track, welded together so  
9 there's no joints in the track section.

10 Q. Is that heavier than the rail that's  
11 currently in place?

12 A. Yes. The current rail is 112-pound rail.

13 Q. What is the benefit of the heavier rail?

14 A. The benefit of the heavier rail is it gives  
15 you a smoother ride, elimination of the joint. It's  
16 also better stability for the track, and it'll reduce  
17 the maintenance so you don't have to surface the track  
18 as much.

19 Q. You also mentioned that the existing  
20 siding, the rail will be upgraded to secondhand welded  
21 rail. What type of rail will you be replacing that  
22 siding with?

23 A. We will be putting in a siding secondhand  
24 welded rail that will be 132-pound rail that had been  
25 removed from our main lines in other locations.

1 Q. You also mentioned that there's a switch at  
2 milepost 106.29 that you will be replacing. What type  
3 of switch will you be replacing there? That's the  
4 siding on the west side of the main line?

5 A. The switch to the elevator is currently a  
6 number 11 turnout and we'll be replacing that with  
7 another number 11 turnout but will have 136-pound  
8 rail so the rail sections and the switches in the  
9 track will all be consistent and match.

10 Q. Going back to the siding, the secondhand  
11 welded rail that will be replaced, what type of rail  
12 is currently on the siding?

13 A. It's a lightweight rail. I'm not exactly  
14 sure. It's either 90- or 100-pound rail, and it's  
15 probably 50-plus years old and has jointed rail.

16 MS. RENDAHL: May I approach the witness?

17 JUDGE ANDERL: Yes.

18 Q. (Handing.) Mr. Nelson, I'm not sure if  
19 you're the witness to discuss this, but to clarify  
20 testimony earlier concerning the distance from the  
21 main line to the area along the softball fields, are  
22 you familiar with this document?

23 A. Yes, I am.

24 Q. Could you describe what this document is?

25 A. This is -- in the railroad industry this

1 is a track chart and we have on that the various  
2 information regards curvature, grades, the type of  
3 rail, and other information pertinent to what's out on  
4 the track.

5 JUDGE ANDERL: Okay. Ms. Rendahl, let me  
6 just mark that single-page document as Exhibit Number  
7 13 for identification since this witness does seem  
8 to know what it is. Go ahead.

9 (Marked Exhibit No. 13.)

10 Q. Is this something that you use in the  
11 ordinary course of business?

12 A. Yes, it is.

13 MS. RENDAHL: I would ask that the document  
14 be admitted.

15 JUDGE ANDERL: Okay. Is there any  
16 objection to the admission of this Exhibit 13?

17 MS. GIBSON: No objection.

18 MR. CUILLIER: No.

19 JUDGE ANDERL: Okay. It's admitted as  
20 identified.

21 (Admitted Exhibit No. 13.)

22 Q. On this document there's a diamond shape  
23 on the left-hand side that reads ten five. The  
24 vertical line that runs through that, does that  
25 represent milepost 105.

1           A.       That is correct.

2           Q.       And then the vertical lines to the right  
3 each indicate a mile?

4           A.       That is correct.

5           Q.       So if you would look over to the next line  
6 over, what would be milepost 106 --

7           A.       Yes.

8           Q.       -- that corresponds to just roughly below  
9 the Washington Street crossing, is that correct?

10          A.       The 106 would be at the Second Street and  
11 the Washington Street would be just slightly north of  
12 that.

13          Q.       I'm looking here, there are -- at the top  
14 of Exhibit 13 there is a line that seems to vary  
15 in terms of grade. That line represents the increase  
16 and decrease in grade?

17          A.       That is correct. That's the elevation of  
18 the track, the ground line that the track operates on.

19          Q.       And the drawings below that indicate a view  
20 from above the track, is that correct?

21          A.       That is correct. A schematic of what's out  
22 on the ground.

23          Q.       And where it would indicate 50 feet or --  
24 is that feet or inches?

25          A.       50 feet.

1 Q. 50 feet and 150 feet, that's the right of  
2 way on either side of the track, is that correct?

3 A. That is the width of the right of way from  
4 the center line of the track to the -- at that point.

5 Q. So this document would describe the right  
6 of way around the track in the city of Ferndale, is  
7 that correct?

8 A. That is correct.

9 MS. RENDAHL: I have no further questions,  
10 your Honor.

11 JUDGE ANDERL: I guess if you don't have  
12 any questions about this exhibit, I guess I need to  
13 know what it's supposed to be telling me because --

14 MS. RENDAHL: I'm introducing the exhibit  
15 because --

16 JUDGE ANDERL: -- I'm not getting it.

17 MS. RENDAHL: There were questions earlier  
18 about the distance between the playing fields and the  
19 track, and this may help clarify with later testimony  
20 by the city in terms of distance from those fields.  
21 This at least gives a distance -- the right of way --  
22 the right of way distance from the track. I'll ask a  
23 few more questions, if that's helpful.

24 JUDGE ANDERL: Well, not if other witnesses  
25 are going to testify from it and explain it more

1 fully. It's just that right now there's a lot of  
2 information on this exhibit and I don't know how much  
3 of it is pertinent or how much of it I need to be  
4 concerned about, so -- aside from the right of way  
5 distances designated.

6 MS. RENDAHL: I believe there was a  
7 question earlier in terms of what the distance was  
8 from the track to the playing field.

9 JUDGE ANDERL: Mm-hmm.

10 MS. RENDAHL: And the playing field being  
11 at approximately 106.5. On this map it would show  
12 that there would be a distance of 150 feet from the  
13 main line as the right of way, and moving up to  
14 milepost 107 it would decrease so there would be a  
15 change in the right of way. That's merely why I'm  
16 introducing this, and maybe it won't be relevant, but  
17 if it is, I thought I would introduce it through this  
18 witness who seems to be --

19 JUDGE ANDERL: You might as well get it in  
20 with a witness who can tell us what it is.

21 MR. CUILLIER: I think it would be helpful  
22 for the school district's witness.

23 JUDGE ANDERL: That sounds great then.  
24 Fine. Thank you. Any further questions, Ms. Rendahl?

25 MS. RENDAHL: No further questions,

1 your Honor.

2

3

EXAMINATION

4 BY JUDGE ANDERL:

5 Q. I have a couple of clarifying questions.  
6 Just indulge me while I satisfy my curiosity. Can you  
7 continue operations over the main line while you're  
8 replacing the bolted rail with welded rail?

9 A. We normally get a window of time and the  
10 people who do this work work very closely with the  
11 people who operate the cranes and they normally give  
12 them a four- or five-hour period every day and then  
13 replace a section of it and then at the end of that  
14 work period they can operate trains again.

15 Q. Okay. You indicated that the new switch  
16 you would be installing would be one that was a high  
17 speed switch so the passenger train could use it  
18 if need be, is what I understood you to say. And I  
19 guess I'm curious as to if the passenger train would  
20 ever need to go on to the siding track or why.

21 A. The current switches at the end of the  
22 sidings are number 11s which would restrict any train  
23 going into the siding at 50 miles an hour. And a  
24 longer freight train or a passenger train going into  
25 the siding would take a great deal of time, and the



1 new switch at the north end of the crossover would be  
2 a number 20 crossover which is a -- which would allow  
3 the trains to go into the siding at 35 miles an hour  
4 and clear the main line much quicker.

5 JUDGE ANDERL: Okay. Ms. Gibson, is there  
6 going to be further testimony from other witnesses  
7 about the property owner or owners who are affected on  
8 the --

9 MS. GIBSON: At Thornton Road?

10 JUDGE ANDERL: Yes.

11 MS. GIBSON: We are attempting to locate  
12 one of the people who live there at the crossing who  
13 indicated an interest in testifying, but we haven't  
14 been able to contact her today. We frankly expected  
15 her to be here.

16 JUDGE ANDERL: Let me ask Mr. Nelson a  
17 couple of questions.

18 Q. To your knowledge, is there more than one  
19 residence now west of the freeway and east of the  
20 tracks at Thornton Road?

21 A. Yes. I have been in this area quite a few  
22 times and there appears to be a car recently in front  
23 of the residence, the buildings north of Thornton Road  
24 in that area. A year ago when we were looking at  
25 this, there were no cars there and it appeared to be

1 vacant.

2 Q. Now, what if the city doesn't let you  
3 construct this access or egress road on it's right of  
4 way to access the Portal Way road for those people who  
5 would otherwise be landlocked if the crossing were  
6 closed? I mean, how is this all going to play out?

7 A. Would probably have to do at that point in  
8 time, allow that one person that now lives there to  
9 break the train link described by Mr. Kime in earlier  
10 testimony and we would have to allow that one person  
11 to cross the tracks there.

12 Q. So it would be a private crossing?

13 A. In essence, yes.

14 JUDGE ANDERL: Anything on redirect for  
15 this witness?

16 MS. GIBSON: No, nothing else.

17 JUDGE ANDERL: Anything further for Mr.  
18 Nelson?

19 MS. RENDAHL: I just have one question that  
20 I meant to ask on cross.

21 JUDGE ANDERL: Go ahead.

22

23 CROSS-EXAMINATION

24 BY MS. RENDAHL:

25 Q. Will the improvements on the track

1 structure and the installation of the new switches  
2 allow the passenger trains to move faster and more  
3 safely through Ferndale in your opinion?

4 A. The current track would support 79 mile an  
5 hour to 80 mile an hour speed as FRA Class 4. The new  
6 track would be more than adequate for that and would  
7 be very good track for that and would be, of course,  
8 much smoother, as I mentioned earlier, so it is an  
9 improvement to that extent, yes.

10 MS. RENDAHL: I have no further questions.

11 JUDGE ANDERL: Okay. Thank you, Mr.  
12 Nelson, for your testimony. I believe we have two  
13 other witnesses we're going to take today. Let's go  
14 ahead and take another ten-minute break and then be  
15 back for those other witnesses.

16 (Recess.)

17 JUDGE ANDERL: Let's be back on the record  
18 after our afternoon recess. The next witness has  
19 taken the stand. Sir, if you would raise your right  
20 hand, please.

21 Whereupon,

22 ROBERT JOSEPHSON,  
23 having been first duly sworn, was called as a witness  
24 herein and was examined and testified as follows:

25 JUDGE ANDERL: Go ahead, Ms. Cushman.

1

2

DIRECT EXAMINATION

3

BY MS. CUSHMAN:

4

Q. Mr. Josephson, would you please state your name and spell your last name for the record.

5

6

A. My name is Robert Josephson,

7

J O S E P H S O N.

8

Q. Please give us your business address.

9

A. I work for the Washington State Department of Transportation in the northwest region in Seattle.

10

Q. And the address for that office?

11

A. I've got to give an address? Okay. 15700 Dayton Avenue North, Seattle. And you want a zip code too?

12

Q. No.

13

A. 98133, just in case.

14

Q. Okay. Mr. Josephson, you stated that you work for the Washington State Department of Transportation. What is your job?

15

A. My job is manager of planning and local coordination.

16

Q. And what part of the state do you serve?

17

A. Okay. Northwest region is King, Snohomish, Kitsap -- no. King, Snohomish, Whatcom, Island, and Skagit counties.

18

19

1 Q. Okay. What are your responsibilities for  
2 this area?

3 A. Okay. My responsibilities -- basically I  
4 manage the planning section which handles all the  
5 growth management duties and the long-range planning  
6 for all the state highways and interstates in this  
7 region. I also manage what used to be called local  
8 programs and is now called trans aid section of the  
9 department.

10 JUDGE ANDERL: What's that?

11 A. Trans aid. It's not contagious. It's the  
12 group -- I shouldn't have said that -- but it's the  
13 group that basically work with all the city and county  
14 agencies and actually handles -- works as an advocate  
15 for those agencies and passes both state and federal  
16 money through the state to those other groups for  
17 basically highway and city street and road  
18 improvements. I also have responsibility over the  
19 group that handles all of the developer permits and in  
20 the counties all of the driveway permitting and so  
21 work with all of the developers in the region in terms  
22 of any major development activity.

23 Q. Are you a licensed engineer?

24 A. Yes. I'm a licensed engineer in the state  
25 of Washington, graduate civil engineer with bachelor's

1 and master's degrees from the University of  
2 Washington.

3 Q. Do you have experience in the area of road  
4 design?

5 A. Yes. I've been with the Department of  
6 Transportation for 25 years. I've got extensive  
7 experience both in design and construction and the  
8 last year in planning.

9 Q. Are you familiar with the I-5 corridor and  
10 the area surrounding Ferndale including the city and  
11 county roads?

12 A. Yes, I am.

13 Q. How is it that you're familiar with this  
14 area?

15 A. Well, basically through the rail proposal,  
16 the high speed rail proposal coming through here. I  
17 started to become involved in what's going on up here  
18 and how it interfaced with rail about a year ago and  
19 have made numerous trips up here, talked to city  
20 officials. I work routinely with Whatcom County  
21 Council of Governments in RTP0, the Regional  
22 Transportation and Planning Organization.

23 Q. How often do you meet with the RTP0?

24 A. I meet with the RTP0 monthly up here.

25 Q. Is Ferndale represented in that group?

1 A. Yes, they are.

2 Q. Mr. Josephson, Burlington Northern and  
3 Washington State Department of Transportation have a  
4 plan for providing access to the residents on the east  
5 side of Thornton Road if the crossing is closed. Have  
6 you studied this plan?

7 A. Yes, I have.

8 Q. This plan assumes that the crossing would  
9 be closed, correct?

10 A. Correct.

11 Q. And what does this plan involve?

12 A. The plan that Burlington Northern has  
13 designed, and easier if I point --

14 Q. The witness is indicating a point on  
15 Exhibit 10. And you need to please describe it for  
16 the record.

17 A. Right. The plan improves the current road,  
18 if you will, driveway, that extends from Thornton Road  
19 part way down the freeway right of way.

20 JUDGE ANDERL: South?

21 A. Which is just west of the freeway and east  
22 of the railroad, but it runs immediately west of the  
23 freeway property and it extends from there on south  
24 following the freeway right of way to Portal Way.

25 JUDGE ANDERL: Following the off-ramp then?

1 THE WITNESS: Yeah.

2 A. Just is a road that sneaks on down here,  
3 comes out where there's an existing driveway into this  
4 field right off Portal Way.

5 Q. In considering how to build this access,  
6 what factors should be taken into account?

7 A. Okay. This access has given me a great  
8 deal of problem the whole time we've been looking at  
9 it. First off, normally when we come through to build  
10 an interstate highway, we reserve 300 feet of limited  
11 access from the freeway off-ramps on both sides of the  
12 cross street. We would reserve -- we would take  
13 limited access rights -- we would buy the access  
14 rights for a minimum of 300 feet.

15 JUDGE ANDERL: In which direction?

16 THE WITNESS: Well, in this way it would be  
17 to the south towards downtown Ferndale along Portal  
18 Way, and we would also go to the east and north up  
19 Portal Way for 300 feet if we were to do this today.

20 A. Now, the right of way for I-5 -- the right  
21 of way plan was developed in 1959 and the right of way  
22 purchased, I assume, shortly after that. The right of  
23 way currently has 80 feet of limited access. To the  
24 south of the freeway ramps is what was purchased.

25 JUDGE ANDERL: I'm sorry. You really have



1 to more specifically describe it for the record.

2 Where you're pointing to is where?

3 A. From the southbound off-ramp to Portal Way,  
4 from that point south on Portal Way there is only 80  
5 feet of limited access, where our desire would be to  
6 have 300 feet in that direction. In other words, we  
7 would not want to allow any access driveway or street  
8 intersection for a minimum of 300 feet from that  
9 freeway ramp intersection and that's whether you go  
10 south or whether you go north. That would be our  
11 desire. So proper design would dictate 300 feet.

12 Now, for building this driveway (pointing)  
13 to provide access for the two homes up here off  
14 Thornton, to provide a driveway access down, utilizing  
15 this current driveway into the field, light traffic  
16 volumes, driveway type use, intermittent use, I view  
17 it as perfectly safe. To have arterial intersection  
18 that close I don't believe would even work. The  
19 problem is when you come out onto Portal Way, you're  
20 only 80 feet from the southbound to Portal Way  
21 off-ramp and the Portal Way to southbound on-ramp,  
22 you're only 80 feet away. There's inadequate storage  
23 for all of the turning movements that would go on.

24 And for example, if this was developed --  
25 well, the commercial use that supposedly would utilize

1 this arterial, if there's a couple of trucks in that  
2 traffic, they would block themselves.

3 JUDGE ANDERL: Okay. When you say "this  
4 arterial," you're referring to the proposed access  
5 road?

6 THE WITNESS: Excuse me. The proposed  
7 access road.

8 A. If that was an arterial instead of a  
9 driveway, and if there were truck traffic on it, and  
10 the first truck comes out waiting to make -- onto  
11 Portal Way and then waits to make a left turn to go  
12 southbound on Interstate 5, that would use up a  
13 majority of the storage. If another truck then tried  
14 to cross into that same path, it would then block  
15 southbound traffic on Portal way, creating a gridlock  
16 situation.

17 Q. So let me clarify. Your testimony is that  
18 if the access road through Thornton was built for  
19 public use and trucks used it, a truck coming out off  
20 of the Thornton Road onto Portal Way would block  
21 Portal Way in both directions if it was making a turn  
22 around onto the freeway ramp?

23 A. Well, if there was, say, two truck trailers  
24 there, it would block traffic. There's just not  
25 enough space.

1 Q. That's because the turn radius is too  
2 short?

3 A. Because the storage for the left turn onto  
4 the southbound on-ramp is too short. There's not  
5 enough separation. So there's too many conflicting  
6 movements that go on in order for the thing to safely  
7 operate or to carry an adequate capacity and that's  
8 why our standards require a 300-foot separation for  
9 those kind of intersections.

10 Q. Could you explain for us what storage is?

11 A. Well, storage is the left-turn lane, left-  
12 turn pocket where you sit waiting to make a left turn.

13 Q. And how long should that be?

14 A. Well, that's dictated depending on the  
15 traffic volumes and the types of vehicles. But in a  
16 situation like this where you're talking commercial  
17 use, major city arterial which diverts traffic from  
18 the downtown area, a 60-foot storage would be woefully  
19 inadequate for any kind of reasonable capacity.

20 Q. Have you discussed your concerns about this  
21 proposal with the city?

22 A. I've discussed it with the city, city  
23 councilmen. I sat about six months ago with Sid  
24 Morrison and several councilmen and went over this as  
25 well.

1           Q.       So your opinion is that it is not viable  
2 from a traffic safety point of view to build a  
3 thoroughfare from Thornton through to Portal Way?

4           A.       Well, to build and coming out immediately  
5 adjacent to these ramps is unsafe intersection design  
6 and it is inadequate in terms of being able to handle  
7 enough capacity to function as an arterial.

8                   Other options, such as moving this  
9 intersection around this curve on Portal Way farther  
10 to the south to get an approximate 300-foot separation  
11 would be technically possible, but would -- basically  
12 would tend to use up most of this property for any  
13 commercial development. Plus any intersection on  
14 this curve there's a -- there's a curve immediately  
15 south of the ramp intersection on Portal Way. Makes  
16 it very difficult to bring an intersection in there  
17 that really operates safely because if there's any  
18 heavy traffic volumes, seeing around the curve is  
19 going to be blocked by traffic and it's going to make  
20 it difficult for an intersection to operate safely  
21 and, again, at reasonable capacity. Some total  
22 reconstruction through there might -- would probably  
23 be necessary in order to make it function at all well.

24           Q.       So to review, could you please just state  
25 again what you think would be the best option.

1           A.       Okay.  And this I related to the city a  
2 couple of times.  In looking at the functioning of any  
3 access on Portal Way from Thornton, there's a lot of  
4 difficulties, a lot of safety questions, and at the  
5 time when I talked about them, the terrain on Thornton  
6 is such that it's higher to the west, drops off down  
7 to the tracks and is pretty level across the tracks  
8 and Interstate 5 going east over to Portal Way, and so  
9 terrain fits quite well to raise Thornton or any other  
10 cross street in this area over the tracks, over I-5,  
11 coming back down on Portal Way.  An intersection on  
12 Portal Way anywhere along this straight stretch to the  
13 east of I-5 could operate quite well, would be an easy  
14 design, would operate very well, and provides then  
15 ready access south to the Portal Way interchange,  
16 north to the interchange at Cedarview -- Grandview.  
17 It also provides then good access from the residential  
18 area that's building north and west of Ferndale.

19                   To my understanding, much of this land  
20 along Portal Way is or is going to be zoned  
21 commercial, and a crossover somewhere in this zone  
22 would provide very good access to the commercial area  
23 and both freeway interchanges which allows a very  
24 rapid dispersion of traffic and would handle much  
25 higher future traffic volumes without consequence and

1 without any safety problems.

2 Q. So your opinion is that a driveway for  
3 those two residents opening up onto Portal Way would  
4 be a safe condition because there would be low traffic  
5 volume and small vehicles?

6 A. Yes. I feel that any access onto Portal  
7 Way in the area immediately south of the freeway ramps  
8 is only suitable for driveway type access.

9 Q. Mr. Joseph, what is a, quote, level of  
10 service, unquote?

11 A. Level of service is basically a measurement  
12 of the traffic congestion on a street.

13 Q. And how are they designated?

14 A. They are designated A through F, level of  
15 service A being free flowing, you can stand in the  
16 middle of the street blindfolded and you could  
17 probably walk across the street without getting hit.  
18 Level of service F, you could probably walk across the  
19 street, but that's because all the cars are sitting  
20 there parked. And then we see a lot of that in  
21 Seattle; you don't see quite as much up here.

22 Q. Where does the term "level of service" come  
23 from? What is it used for?

24 A. The level of service is used in terms of  
25 how we measure congestion on different streets.

1 Currently level of service has become a big issue with  
2 regard to growth management. Under growth management,  
3 all of the cities and counties in the state are  
4 required to set level of service on all of their major  
5 roads and then relate that into their transportation  
6 plans, future transportation and growth plans. Those  
7 plans then have to be financially constrained in terms  
8 of -- they have to be things that reasonably can be  
9 done to meet those level of service, to meet the level  
10 of service that's been decided, and that has to be  
11 consistent with the growth plans for the cities and  
12 counties in terms of where they are proposing to  
13 center their growth.

14 Presumably if the plans for transportation  
15 improvements and other necessary improvements, if  
16 those improvements can't be funded, presumably growth  
17 management ultimately will force the cities and  
18 counties to stop issuing building permits. That is my  
19 understanding of how growth management is supposed to  
20 work. We're a ways from getting to that point, but  
21 that's how level of service is being used and the  
22 effort is to try and get the state, cities, and  
23 counties to all work together to make sure that the  
24 transportation system all is consistent and works  
25 properly and the improvements needed can be funded.

1 Q. Okay. Does a city have discretion as to  
2 where the level of service is set for their area?

3 A. Absolutely. The city sets the level of  
4 service standards on their routes and are supposed to  
5 work with the state in terms of setting level of  
6 service standards for state routes that run through a  
7 city.

8 It's a difficult situation for all of us  
9 because if the standards are set too low, meaning,  
10 say, an E or F standard, very highly congested  
11 standard, then the city can go ahead with its growth  
12 plans, but when money is available to improve the  
13 transportation system, they won't be standing in line  
14 for the money because they are meeting their level of  
15 service standard. If they set the standard too high,  
16 say an A or a B standard, free flowing, and they can't  
17 fund those kinds of improvements, or the state can't  
18 fund those kinds of improvements, then, like I said,  
19 presumably they will have to curtail development. So  
20 it's a difficult juggling act that we're all having to  
21 deal with under growth management.

22 Q. So the level of service that's set by a  
23 city drives the city's plan for road improvements?

24 A. Absolutely.

25 Q. How do communities like Ferndale get state



1 or federal assistance for road improvement projects?

2 A. For road improvement projects, there's a  
3 certain amount of money that comes from the gas tax  
4 that's funneled state to the cities and counties, and  
5 Ferndale that's a relatively small amount. There's  
6 also additional funds that they can compete for on a  
7 statewide basis under the current Federal  
8 Transportation Act known as ISTEA.

9 Q. Could you spell --

10 A. Intermodal Surface Transportation  
11 Efficiency Act. And under the ISTEA act, it opened up  
12 a lot more federal money to be passed through to the  
13 cities and counties. Prior to ISTEA, we used to --  
14 the biggest year that the Department of Transportation  
15 had we passed through \$47 million to the cities and  
16 counties. This current fiscal year, which ended the  
17 end of September, we have passed through \$150 million  
18 to the cities and counties for local street  
19 improvement work. So there's a lot more money out  
20 there that the cities and counties can compete for for  
21 street and road improvements.

22 Q. Does the level of service set by the city  
23 determine whether or not a project is selected for  
24 state or federal assistance and funding?

25 A. Not necessarily. That's one aspect of it.

1 But in order -- they have to compete for these funds  
2 on a statewide basis and competition is largely based  
3 on the level of how bad it really is and what -- how  
4 good the improvement is and cost-benefit analysis and  
5 those types of things are what is used primarily to  
6 judge these.

7 Q. Okay. Does Ferndale have a comprehensive  
8 plan?

9 A. I have not seen it. They are supposed to  
10 -- I understand they are working on one and will be  
11 reviewing it. My office will be reviewing it when  
12 it's submitted to us.

13 Q. And why do you review it?

14 A. We review it for consistency with the state  
15 plans and make -- to make sure that their needs for  
16 transportation improvements match our needs and what  
17 we can or can't do.

18 MS. CUSHMAN: Okay. No further questions.

19 JUDGE ANDERL: Mr. Cuillier, any cross for  
20 this witness?

21 MR. CUIILLIER: Thank you.

22

23

CROSS-EXAMINATION

24 BY MR. CUIILLIER:

25 Q. Mr. Josephson, when you say you haven't

1 seen the comp plan for Ferndale yet, you're speaking  
2 of the growth management comp plan that has to be  
3 prepared?

4 A. Right.

5 Q. As a member of RTPD, you have seen the 1991  
6 Whatcom County urban transportation plan that you were  
7 involved with, is that correct?

8 A. Mm-hmm.

9 JUDGE ANDERL: Is that a yes?

10 A. Yes. Excuse me.

11 Q. And you recall in those plans that each of  
12 the agencies submit their roadway plans and basically  
13 these are consolidated with the help of COG, Council  
14 of Governments, into this document I'm not really  
15 introducing into evidence at this point, but just to  
16 ask you a few questions if you're familiar with it?

17 A. Yes, I am.

18 Q. And when they designate in these plans in  
19 1991, the various municipalities designated committed  
20 roadway plan, what were they designating? Do you  
21 remember what a committed roadway plan is?

22 A. Under that document, no, I'm not familiar  
23 with what the word "committed" means. That was prior to  
24 my being involved in any of the planning up here. I'm  
25 familiar with what Ferndale has in their plans or has

1 had.

2 Q. All right. And are you aware, then, that  
3 Ferndale has shown in its plans in the past extending  
4 the Thornton Road in the manner that you basically  
5 described --

6 A. Absolutely.

7 Q. -- to the south to match up with Portal?  
8 And I believe I understood from your  
9 testimony that Ferndale could carry through with its  
10 plan as far as DOT is concerned because the limited  
11 access there is only 80 feet, but if the state had it  
12 to do over again, they would reserve 300 feet, right?

13 A. Yes. The city has the legal right to go in  
14 and put an intersection in immediately adjacent to  
15 that 80-foot limited access line, however, the  
16 Department of Transportation would do everything we  
17 could possibly do to discourage it.

18 Q. So your policy has changed a little bit  
19 since 1987 apparently when DOT basically would have  
20 given it's blessing to that type of approach?

21 A. I don't believe that DOT gave it's blessing  
22 to that earlier document other than to accept it as,  
23 yes, that's their plan. There's been no detailed  
24 review of any intersection design. One of the things  
25 we do is we review detailed road and intersection

1 designs once the designs are prepared. I don't  
2 believe we have seen any such design for that  
3 intersection. That would be a very interesting design  
4 to see too, you know, four roads coming in immediately  
5 adjacent to each other.

6 Q. You would have to design that with  
7 signalization and actually, though, could not the city  
8 stay further away from the off-ramp than 80 feet?

9 A. Oh, as I stated, yeah. You eat up more of  
10 the adjacent property. The property the city owns  
11 basically puts any intersection in right adjacent to  
12 that 80 feet, however.

13 Q. You would have to shift the useable  
14 property to the other side of the street presumably.

15 Do you know of a John Klasell?

16 A. Yes.

17 Q. Engineer?

18 JUDGE ANDERL: Spelling?

19 MR. CUILLIER: Klasell.

20 THE WITNESS: K L A S E L L.

21 Q. And if he stated to the city in a letter  
22 from DOT in 1987, As long as limited access line is  
23 not violated, the city may permit access in  
24 development as it deems proper, you would agree with  
25 that, except now you would add the caveat that, however,

1 we would do what we could to discourage it, right?

2 A. Yes. Because it's -- I don't view it as  
3 being a safe, proper design for an intersection.

4 Q. Okay.

5 A. It effectively reduces the capacity of the  
6 whole interchange to carry traffic.

7 Q. Okay. But as you indicated, there have  
8 been no specific engineering plans to figure out how  
9 to do this, to your knowledge, right?

10 A. No.

11 Q. And this is not just a matter of going out  
12 and blading out a road and using it, right?

13 A. (Nods head.)

14 Q. Do you recall which cities Ferndale  
15 competes with for funding for road improvements,  
16 street improvements?

17 A. Well, they compete statewide with -- I  
18 mean, it's a statewide competition and there's urban  
19 and rural pots of money, the way the money is  
20 currently being broken up. So, yeah, the pots of  
21 money tend to get small.

22 Q. It gets small because Ferndale is competing  
23 with cities 5,000 and over, right?

24 A. (Nods head.)

25 JUDGE ANDERL: Is that a yes?

1           A.       Yes.

2           Q.       And someone earlier mentioned that there  
3           are all these monies available and you mentioned ISTE  
4           money, but as a matter of actual fact, can you give us  
5           an idea how much that overpass you are proposing here  
6           would run?

7           A.       I made a very rough estimate with no design  
8           in mind, just looking at rough square footage of the  
9           structure, and I came up with a very rough estimate of  
10          around \$6 million for a two-lane facility. Yes,  
11          that's a significant amount of money to build an  
12          overpass.

13          Q.       Do you have any idea how a basically  
14          residential community with 6,500 residents could ever  
15          finance that type of a road improvement?

16          A.       With the different fundings available and  
17          assumably with some increase in the transportation  
18          funding statewide through an increased gas tax or some  
19          other way in the future, if there is a need for it and  
20          if Ferndale can demonstrate that need and start going  
21          after funding to do the necessary planning studies and  
22          those kinds of things, I don't see any reason why it  
23          eventually could not be funded.

24          Q.       Would you argue with the concept that  
25          Ferndale only probably gets probably about 150,000 a

1 year in the gas tax?

2 A. The old way of apportioning funds was based  
3 on population and the gas tax money was pretty much  
4 divvied up around the state by population. Under  
5 ISTEA, that is slowly changing to a purely competitive  
6 effort. At least the goal is to turn that to  
7 competitive. I can't tell you whether that will get  
8 there or not because that involves politics and  
9 there's this idea of equity around the state, but it  
10 -- under a competitive way of doing business, if  
11 there's a need, there should be a way to get it  
12 funded.

13 Q. But would it surprise you to know that  
14 Ferndale has had this project, this Thornton Road  
15 extension, on it's wish list say, it's six-year plan,  
16 for years and years, year after year sometimes?

17 A. Yes. I'm aware that it's been on  
18 Ferndale's wish list. And personally I'm glad it  
19 didn't get built because with the combination of the  
20 interruptions at the rail crossing and then the  
21 difficulty at the intersection of Portal Drive, I  
22 don't see that it will provide the kind of level of  
23 service that the city is looking at. Now, I've seen  
24 the traffic projections showing roughly a demand  
25 through that corridor of 2,100 vehicles during the



1 peak hour, and you look at the ever increasing train  
2 traffic and the difficulty with the siding and the  
3 number of blockages at the railroad and then the  
4 traffic congestion that would happen at Portal Way  
5 because of a very difficult intersection design, I  
6 don't see it as being adequate to handle the kind of  
7 demand that's being projected for it. Basically at  
8 2,100 vehicles per hour, and the projections showed  
9 21,000 vehicles per day, you almost need four lanes to  
10 handle that and there's just too many difficulties  
11 with that frontage road concept, whereas if you  
12 punched it over the top to Portal Way, east of I-5,  
13 then you can easily absorb that kind of traffic  
14 volume.

15 Q. If you accept the fact you're never going  
16 to be able to punch it over the top, you're really  
17 funneling it down into either another crossing or a  
18 two-lane bridge is the problem?

19 A. I haven't studied -- I assume the city's  
20 traffic engineer studied the origin and destination of  
21 the traffic volumes, but there's two interchanges that  
22 -- well, three interchanges that are readily  
23 accessible by going through town and they are fairly  
24 close and traffic will distribute itself such that the  
25 time to get to and from where it's going will -- they

1 will equalize their time, and so I think with some  
2 improvements on the city streets in the interim, it  
3 would appear to me that most of that traffic can be  
4 absorbed. I'm not saying that's the ideal way to do  
5 it or the way that the city would like to, but I don't  
6 see the frontage road concept as absorbing enough  
7 traffic with the difficulties involved to be -- the  
8 cost estimate I've seen from the city was over \$2  
9 million, I believe, just to build that frontage road,  
10 and that seems an awful price for a poorly functioning  
11 piece of road.

12 Q. Would it be an option to redesign the  
13 intersection or the cloverleaf at Portal Way so that  
14 the traffic came over the freeway at that point?

15 A. So the traffic --

16 Q. Have it come off the east side and then up  
17 over the freeway perhaps?

18 JUDGE ANDERL: Wait before you answer that.  
19 Let's get a clarification of what Mr. Cuillier is  
20 describing because I didn't understand it.

21 A. Which traffic?

22 Q. Northbound traffic on the freeway coming  
23 north. Follow me? Approaching the intersection, come  
24 off to the right and over the freeway and link up with  
25 Thornton Road. No, it would have to angle up to the

1 north and link up with Thornton Road.

2 JUDGE ANDERL: Mr. Cuillier, you're losing  
3 me again, I'm sorry. Maybe --

4 Q. Is redesigning --

5 MS. GIBSON: I'm going to object. Without  
6 any design or picture image of this, it's very  
7 difficult for us to even speculate.

8 JUDGE ANDERL: I think I'm going to sustain  
9 the objection. Mr. Cuillier, take a second, think of  
10 the question in as few words as possible, and then  
11 let's give it one more try, otherwise I'm not going to  
12 allow this line of questioning because it's not  
13 clarifying the record.

14 Q. Could you redesign the interchange so that  
15 the northbound traffic on I-5 would come off at the  
16 interchange and loop over the freeway to join up with  
17 Thornton Road on the west?

18 A. Absolutely. Given unlimited money, I'm  
19 sure it could be done, but that would result in more  
20 structure.

21 Q. That would be what?

22 A. That would even be more structure to build  
23 than just going straight across between Portal Way  
24 and --

25 Q. But -- okay.

1 MS. CUSHMAN: Excuse me. Would you please  
2 finish your statement before -- "between Portal Way  
3 and" --

4 A. That would be a lot more construction and  
5 more structure to build than taking Thornton Road  
6 directly over the railroad and the freeway and coming  
7 down at Portal Way to the east.

8 Q. Okay. You can be seated. At least there's  
9 a process in place for redesigning that type of  
10 interchange, is there not, at the state level that can  
11 be done? Interchange redesigns are fairly common?

12 A. We do look at upgrading interchanges when  
13 the traffic congestion gets to the point where it can  
14 no longer handle the traffic volumes. We make  
15 improvements that are necessary.

16 Q. And if a person could fit this into an  
17 interchange redesign, there could be some practical  
18 benefits in timing and funding to accomplish the  
19 desired result, is that not a true statement?

20 A. Possibly.

21 MR. CUILIER: That's all.

22 JUDGE ANDERL: Mr. Cuillier, just out of  
23 fairness to you, through one of your own witnesses you  
24 may have to clarify what you were describing because  
25 it didn't, to me, address the problems that Mr.

1 Josephson had brought up earlier about Thornton Road  
2 meeting Portal Way, okay?

3 MR. CUILLIER: All right.

4 JUDGE ANDERL: Ms. Rendahl?

5

6 CROSS-EXAMINATION

7 BY MS. RENDAHL:

8 Q. Mr. Josephson, in your testimony you talked  
9 about -- in talking about the access road, is it your  
10 testimony that if the crossing remains open and the  
11 road is constructed for industrial use as the city has  
12 proposed, that that would be an arterial? That is the  
13 arterial you were discussing?

14 A. Yes.

15 Q. Okay. And that if the crossing is closed  
16 and the access road serves just the two residences on  
17 that portion of Thornton Road, that that access road  
18 -- you described that as a driveway?

19 A. Yes.

20 Q. That's just to clarify your distinction  
21 between an arterial and a driveway?

22 A. Yes.

23 Q. Am I correct in understanding that the city  
24 of Ferndale has turned down the department's proposal  
25 to purchase the land to construct that access road?

1 Is that correct?

2 A. I'm not personally aware of that. The city  
3 does own the right of way such that a driveway could  
4 be built inside that right of way and I believe there  
5 was earlier testimony that that had been turned down.  
6 I'm not personally familiar with that.

7 MS. RENDAHL: Okay. I may have to hold  
8 these questions until the city's witnesses. Thank  
9 you. I have no further questions.

10

11

EXAMINATION

12 BY JUDGE ANDERL:

13 Q. Mr. Josephson, an overpass on Thornton Road  
14 going over the railroad tracks and I-5, would that do  
15 anything to address the potentially landlocked  
16 residents in between the tracks and the freeway?

17 A. No. That structure would be so far up in  
18 the air they would need wings to get there.

19 Q. So they would still be landlocked?

20 A. Without a driveway in there, they would  
21 still be landlocked, yes.

22 JUDGE ANDERL: Anything on redirect?

23 MS. CUSHMAN: No.

24 JUDGE ANDERL: Anything else for this  
25 witness? Thank you, Mr. Josephson, for your

1 testimony. You may step down. Is there one more  
2 witness we're going to call today.

3 MS. GIBSON: I don't think so. Mr. Flem,  
4 Lloyd Flem? We could call Gil Mallery. He may be  
5 more than half an hour, however.

6 JUDGE ANDERL: Ms. Rendahl, did you check  
7 and see how long we have the room for?

8 MS. RENDAHL: I can take a few minutes and  
9 check now. I understood last week that the room is  
10 booked for a 6:30 meeting and that they would prefer  
11 to have some time in between when we vacate the room  
12 and the next group comes in, but I can clarify with  
13 the library staff.

14 JUDGE ANDERL: Okay. Let's see if we can  
15 have the room for 45 or 50 more minutes, and then I'll  
16 ask among the other parties as to whether that will be  
17 enough time. Let's go off the record.

18 (Discussion off the record.)

19 JUDGE ANDERL: Let's be back on the record.  
20 While we were off the record, the next witness was  
21 called. Sir, if you would raise your right hand.  
22 Whereupon,

23 GILBERT O. MALLERY,  
24 having been first duly sworn, was called as a witness  
25 herein and was examined and testified as follows:

1 JUDGE ANDERL: Go ahead, Ms. Cushman.

2

3 DIRECT EXAMINATION

4 BY MS. CUSHMAN:

5 Q. Please state your name and spell it for the  
6 record.

7 A. Gilbert Otto Mallery. The last name is  
8 M A L L E R Y.

9 Q. Mr. Mallery, where do you work?

10 A. I work for the Washington State Department  
11 of Transportation. I'm a rail branch manager and I  
12 reside in Olympia.

13 Q. Could you speak up just a little bit. I  
14 think the court reporter is having trouble hearing  
15 you.

16 A. I work for the Washington State Department  
17 of Transportation and I'm a rail branch manager and my  
18 office is in Olympia.

19 Q. What is your business address, please?

20 A. It's the Transportation Building, Olympia,  
21 Washington.

22 Q. Could you please describe your duties for  
23 WSDOT.

24 A. As a rail branch manager for the  
25 department, I'm responsible for overseeing the freight



1 reestablish passenger rail service in the Seattle to  
2 Vancouver, B.C. corridor. It also -- number 1 refers  
3 to the incremental upgrading of the existing rail  
4 service. And it also make references to, under number  
5 3 of that resolution, talks about the increase in  
6 frequency of passenger rail service and the reduction  
7 of travel time, and those speak to some of the general  
8 policies that have been articulated.

9 Q. Could you please explain the concept of  
10 incremental upgrading.

11 A. Okay. The basic program is that there is  
12 an existing rail corridor running from Eugene all the  
13 way up to Vancouver, B.C. We feel that given that  
14 there is an existing corridor, it is more economical  
15 to take that corridor and through a series of  
16 incremental investments upgrade the track and signal  
17 system to allow increased frequency of service and  
18 faster service to accommodate what we intend to have  
19 ultimately to be a high speed rail system. And it is  
20 a system that has formally been embraced by the  
21 department as well as the legislature.

22 Q. High speed rail system is a term of art,  
23 isn't it?

24 A. Yes, it is. It's a state of -- term of art  
25 that has been provided to us through ISTEA, the

1 Intermodal Surface Transportation Efficiency Act of  
2 1991. The state of Washington along with Oregon and  
3 British Columbia, that corridor running some 460 miles  
4 from Eugene to Vancouver, B.C., was designated as one  
5 of five national high speed rail corridors under  
6 Section 1010 of ISTEA.

7 Q. And how fast does a train have to go to be  
8 considered high speed?

9 A. You need to be making progress towards  
10 sustained speeds of 90 miles an hour and ultimately  
11 you need to achieve prolonged speeds of 125 miles an  
12 hour in at least some segments of your corridor. And  
13 I think the incremental strategy picks that up in that  
14 we currently have Class 4 track, as you heard earlier  
15 today, that reaches a top speed of 80 miles an hour.  
16 So the incremental strategy is, one, as the  
17 legislature provides funding over a series of  
18 bienniums, we will make incremental investments in the  
19 track and system and signal systems and intermodal  
20 depots to, over time, move from basically a railroad  
21 with the capacity of currently a top speed of 80 miles  
22 an hour ultimately to assist in what would accommodate  
23 stretches of speeds as high as 125.

24 Q. I am referring you now to what's been  
25 admitted as Exhibit Number 9. This is a copy of

1 Section 47.79.020 Revised Code of Washington. What  
2 is the significance of this chapter of our state code  
3 and to the rail program?

4 A. It represents official action by the  
5 Washington state legislature that declares the  
6 legislative intent that provides a foundation for our  
7 intercity passenger rail program in the state of  
8 Washington. It recognizes in the legislation that the  
9 corridor from Eugene all the way to Vancouver, B.C.  
10 over the next 20 years is going to experience rapid  
11 development in the legislation.

12 In the first paragraph it actually recites  
13 the projection that population will increase 40  
14 percent over the next 20 years, that employment will  
15 increase by nearly 50 percent, and that the projection  
16 for increased intercity travel will be approximately  
17 75 percent. It recognizes that the department and the  
18 legislature cannot accommodate that kind of growth  
19 without a balanced transportation system, and it makes  
20 the policy determination that rail is an important  
21 part of any balanced system because of safety,  
22 environmental issues, efficiency, cost advantages,  
23 environmental consideration, consistent with growth  
24 management policies, land-use policies.

25 Q. Mr. Mallery, this petition is brought by

1 Amtrak, Burlington Northern, and Washington State  
2 Department of Transportation, so we know that at least  
3 these three groups are involved in this project. Is  
4 there other work going on with other groups to  
5 facilitate this goal?

6 A. Yes. I think as I indicated, the project  
7 is really more global and more involved than just  
8 those entities. Clearly it's been recognized in  
9 national transportation legislation as one of the five  
10 nationally designated high speed corridors. We have a  
11 close working relationship not only with Amtrak and  
12 Burlington Northern as the owner of the right of way  
13 and Amtrak as the operator of the system, but we also  
14 have a partnership with the state of Oregon who has  
15 some 125 miles of corridor in their state as well  
16 as British Columbia which has about 35 miles of  
17 corridor in Canada.

18 And I think that that begins to express I  
19 think the importance that's being placed on the  
20 development of high speed rail within the corridor not  
21 only is it a national priority, not only is it a state  
22 priority, is it a regional priority in terms of  
23 Washington, Oregon, and British Columbia, but it also  
24 -- this corridor is really the only both bi-state as  
25 well as international designated high speed rail

1 corridor in the country.

2 Q. Has there been an agreement between the  
3 United States and Canada regarding customs and  
4 immigration for reinitiation of this service?

5 A. Yes, there has. As many of you recognize,  
6 there used to be rail service running between Seattle  
7 and Vancouver, B.C. That service was terminated in  
8 1981 primarily because of delays at the border that  
9 made the service not viable. When the service ran,  
10 the train towards the end of that service was actually  
11 required to stop at Blaine and the passengers were  
12 actually required to leave the train and clear  
13 customs, which could take anywhere from a half hour to  
14 45 minutes. That along with high access charges into  
15 Canada basically contributed to make the service not  
16 viable.

17 And as you've heard from other witnesses,  
18 to produce a viable service, one that will attract  
19 ridership and not require an inordinately high level  
20 of subsidy, we have established three hours and  
21 fifty-five minutes as the required time before we  
22 could have a viable service. In order to achieve  
23 that, we had to negotiate an international treaty.  
24 It's basically a bilateral trade agreement between the  
25 U.S. and Canada to allow for preclearance of customs

1 in the Vancouver station. That would mean that when  
2 this service goes into being in the spring of '95,  
3 passengers on the train will no longer have to be  
4 stopped at Blaine, but they will be able to continue  
5 into the station in Vancouver and will go through  
6 customs and immigration procedures after arriving in  
7 the station. If they are not able to clear customs,  
8 they will be held and returned to the U.S. Likewise,  
9 in a southbound direction, customs and immigrations  
10 will be handled prior to boarding the train for the  
11 U.S. This represents probably 18 months of  
12 negotiations with Canadian immigrations and customs,  
13 U.S. customs and immigrations, and numerous people at  
14 the state department and foreign ministry in Canada to  
15 achieve this.

16 Q. How important is it for reinitiation of  
17 this service for the plan to proceed as it has  
18 currently developed? I mean by that, for crossing  
19 closings to occur as proposed, for speed increases to  
20 occur as proposed, for the customs agreement to be  
21 actually initiated as proposed, what is the importance  
22 of all these factors combined?

23 A. I think you've heard there is -- this is  
24 an extremely complex project. Not only do you have  
25 two states and two countries, but you have issues as

1 speed limit increases, crossing closures, developing  
2 contracts with a railroad for investment program,  
3 working out service agreements with Amtrak. All of  
4 these things have to come together in a manner that  
5 would allow service to be initiated in a timely  
6 fashion.

7 I think one of the keys with our  
8 incremental program is that each biennium as we  
9 receive funding from the legislature, we commit to the  
10 legislature that we're going to perform and that what  
11 we had committed to for the '93-'95 biennium for the  
12 \$40 million that was provided was basically three  
13 things. One was to add a fourth round trip to  
14 Portland, the second was to begin the renovation of 14  
15 intermodal facilities, and the third was to  
16 reestablish service between Seattle and Vancouver,  
17 B.C.

18 For us to have any hope of receiving  
19 further funds to expand the program, it is critical  
20 that all of these different factors come together and  
21 that service is initiated in the spring of '95, so  
22 that has to go back to the legislature for discussion  
23 of future funding. We will have the ability to  
24 indicate that we have accomplished the goals set by  
25 the legislature and that the public has responded in

1 terms of ridership in such a manner that further  
2 investment on the part of the legislature is  
3 appropriate.

4 We have extremely good momentum based on  
5 the additional service we've added to Portland. We  
6 added a fourth round trip in April of this year with  
7 a Talgo, T A L G O, Spanish high speed train, and that  
8 train has been leased by the state of Washington for  
9 six months from April 1 through September 30. The  
10 initial projection from Amtrak was that train would  
11 carry between thirty and 35,000 passengers. That  
12 service ended the end of September and we carried over  
13 58,000 passengers with an 80 percent occupancy level.  
14 We think that is going to speak very well for the  
15 demand for passenger rail service in the corridor.

16 We are obviously extremely anxious to start  
17 service between Seattle and B.C. We have a forecast  
18 of ridership for first year service of 100,000 people  
19 and we feel that at that level of ridership, the  
20 service will be very successful.

21 I think I should point out that when the  
22 service was terminated in 1981, ridership was actually  
23 growing. Ridership I believe in 1981 was about  
24 80,000. It wasn't terminated due to lack of  
25 ridership. It was terminated due to slow run time



1 which was over four hours which in part was due to  
2 slow speeds and also to the delays at customs. We  
3 feel that with the pending speed increases that we're  
4 seeking throughout the corridor and with the  
5 resolution of customs through the bilateral trade  
6 agreement, that we are going to be able to offer very  
7 viable service, but, again, all of these things have to  
8 come together, and I've described it almost as a  
9 window of opportunity.

10 We've been given the opportunity to  
11 demonstrate that intercity rail can be effective, that  
12 the public will respond, and that it has a place as a  
13 part of a balanced transportation system, but that if  
14 we are not able to receive the speed increases or some  
15 critical permits or get some of the grade crossings  
16 closed, then we are going to have a problem initiating  
17 that service and it certainly could cause the program  
18 to unravel.

19 MS. CUSHMAN: I have no further questions  
20 of this witness at this time.

21 JUDGE ANDERL: Thank you. Mr. Cuillier,  
22 any questions for this witness?

23 MR. CUILLIER: No, I don't.

24 JUDGE ANDERL: Okay. Ms. Rendahl?

25 MS RENDAHL: No questions, your Honor.

C E R T I F I C A T E

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As Court Reporter, I hereby certify that  
the foregoing transcript is true and  
accurate and contains all the facts,  
matters, and proceedings of the hearing  
held on:

*October 12, 1994*

*Lisa K. Nishikawa*\_\_\_\_\_

CONTINENTAL REPORTING SERVICE, INC.

1 THE WITNESS: Thank you.

2 JUDGE ANDERL: Hang on a second. Okay.

3 No, you are off the hook. I don't have any questions  
4 for you. Thank you for your testimony.

5 Is there anything further to come before us  
6 today? Okay. Thank you all for attending.

7 Before we go off the record, let me just  
8 say that I did talk to the attorneys about whether or  
9 not I would take a view of the Thornton Street  
10 crossing. I think it's fair to say that the  
11 petitioners were in favor of my doing that, Commission  
12 staff was neutral, and the City felt that if I were to  
13 do that, they kind of wanted me to look at the play  
14 fields also. Is that a fair characterization?

15 MR. CUILLIER: Yes, I would say so.

16 JUDGE ANDERL: And I think under the  
17 circumstances, since I do have pictures in the file  
18 and some pretty good word descriptions of the Thornton  
19 Street crossing, that I probably wouldn't gain  
20 anything from doing that and I am concerned at how  
21 involved it could get if I would take a view of the  
22 whole track, so I think I will rely on what I hear and  
23 see in the record rather than going out to the site.  
24 Let's stand in recess until 9:00 tomorrow morning.

25 (Adjourned at 5:26 p.m.)