



# PROJECT PROSPECTUS

Part 1 — Project Request (Page 1 of 2)

Section: Baker Cr (Westside Rd) Br #11640A (Rehabilitation)						Key Number: 2		Jurisdiction: 3			
State Highway No.: _____ Highway Name: _____						Region: 2		Area: 3		District: 3	
State Highway No.:			Highway Name:			Mile Point			Length: (mi) (km)		
						From: _____ To: _____			0.00		
<input type="checkbox"/> Urban		City: _____		MPO: _____		Widened <input type="checkbox"/> Yes		County: Yamhill		Road/Street Name: Westside Road	
<input checked="" type="checkbox"/> Rural				UGB <input checked="" type="checkbox"/> No							
Route No.:		NHS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HPMS: _____		FC: _____		Applicant (if other than State): Yamhill County			
US Congressional District: _____				State Senate District: _____				State Representative District: _____			
Cost Estimates ( x \$ 1,000)				Project Components				Right Of Way			
Preliminary Engineering		\$63		Grading		X		Files		(#) 4	
Right Of Way		\$20		Paving		X		Hectares		(#) 1	
Utility Reimbursement				Structures		X		Relocations		(#) 0	
				Signing				Acquisitions		(#) 4	
Roadway		\$48		Signals				Easements		(#) _____	
Structures		\$32		Illumination				Work By: State / Consultant / Applicant			
Signals		\$0		'Other' Includes: (Mob, Rail Retrofit)		X		Preliminary Engineering (S,C,A)		C	
Illumination		\$0		(Girder Repairs & Erosion Control)		X		Construction Engineering (S,C,A)		C	
Temp. Protection		\$37						Right of Way Descriptions (S,C,A)		C	
Const. Contingencies		\$58						Right Of Way Acquisitions (S,C,A)		C	
Const. Engineering		\$47		Project Categories				Constructed By			
Remove Exist Bridge		\$0		Environmental Class (1, 2, 3, PCE)		2		<input checked="" type="checkbox"/> Contract		<input type="checkbox"/> County Force	
Other		\$117		Design Category (1-7)		7		<input type="checkbox"/> State Force		<input type="checkbox"/> Other	
Total CE and Construction:		\$339		Work Type Code (1-13)		5		<input type="checkbox"/> City Force			
Total Estimate:		\$ 422		Primary STIP Work Type:							
Recommended Let Date By Federal Fiscal Year (Quarter-Year): _____											
PE Fund:			R/W Fund:			UR Fund:			CE-CN Fund:		
PE EA:			R/W EA:			UR EA:			CE-CN EA:		
Item		Existing		Proposed		Define The Problem:					
Travel Lanes (#)		2		2		The Westside Road Bridge is located in a short tangent, in a sag vertical curve between reversing curves. The bridge is functionally obsolete due to width and is possibly structurally deficient with hairline shear cracks.					
Structures (#)		1		1							
Signals (#)		0		0							
Bike Way (#)		0		0							
Average Daily Traffic		5026									
Year of ADT		2003									
Throughway Y/N		Y		Y		Describe Proposed Solution: - Attach Sketch Map					
						Rehabilitate existing structure with a shear crack repairs, approach rail installation, deck rail retro-fit, and deck overlay.					
Prepared By: X William A. Hill				Date: 10/15/2003		OTC Approval Date:		Program Year:		Funding Amount:	



# PROJECT PROSPECTUS

Part 1 Project Request (Page 2 of 2)

Key Number:

Jurisdiction:

Section: Baker Cr (Westside Rd) Br #11640A (Rehabilitation)

Region: 2

Area: 3

District: 3

## Project Justification

Bridge #11640 is one of three bridges (the other two are Br #11645 and Br #11566) that provide access to the North-Western half of Yamhill County. This bridge is a high volume (5036 ADT 2003 count, see attached report) Major Collector for Yamhill County. This route is used as a detour for Hwy 47 and various other county routes when accidents or bridge problems arise. Lose of this route or bridge would be a major disaster for the Yamhill County Transportation System. This bridge is functionally obsolete due to width, deck rail, and approach rail. The current SR is 69.3 without a load restriction. If funding for replacement is not available consideration should be given to a re-habilitation project to repair or upgrade enough of the deficient features to ensure a usable life for this structure. THIS APPLICATION IS FOR REHABILITATION OF THE THE BRIDGE.

## Additional Information For Project Requested By Local Jurisdictions

Responsible Local Office To Be Contacted For The Following Activities:

- 1. Public Hearing / Citizen Involvement \_\_\_\_\_ (Office) \_\_\_\_\_ (Phone)
- 2. Environmental / Planning \_\_\_\_\_ (Office) \_\_\_\_\_ (Phone)
- 3. Pre-Engineering \_\_\_\_\_ (Office) \_\_\_\_\_ (Phone)

This Official Request is From:

City of: \_\_\_\_\_ and/or YAMHILL \_\_\_\_\_ County

By: \_\_\_\_\_ By: BILL GILLE, PUBLIC WORKS DIRECTOR

By: \_\_\_\_\_ By: \_\_\_\_\_

By: \_\_\_\_\_

Applicable Intergovernmental Agreements:

IGA Number:	Jurisdiction Name:	Agreement Date:
_____	_____	_____
_____	_____	_____
_____	_____	_____

## Administrative Recommendation

## Bridge Prospectus Cost Estimate

Applicant: Project / Section		Yamhill County Baker Cr (Westside Rd) Br #11640A (Rehabilitation)		NBIS Bridge No. 11640A		Region: 2	Area: 3	District: 3
<b>New Bridge / Roadway Configuration:</b>				<b>Existing Bridge:</b>				
Left Side Rail		feet		Bridge Length		feet		
Left Sidewalk		feet		Bridge Width		feet		
Shoulder	1	feet		Area		0	square ft.	
Lane 2		feet		New AC Top Width		26	feet	
Lane 1	12	feet		New AC Depth		4	inches	
—CL—	0	feet		New Base Depth		18	inches	
Lane 1	12	feet		Project Length		301	feet	
Lane 2	0	feet		Net Road Work Length		200	feet	
Shoulder	1	feet		X-Sect Side Slope		3	:1	
Right Sidewalk	0	feet		AC Avg Width		27	feet	
Right Side Rail	0	feet		Base Avg Width		32.5	feet	
Bridge Length	101	feet		Asphalt Density		150	pounds/ cu ft	
Bridge Width	26	feet		Base Density		120	pounds/ cu ft	
New Area	2626	square ft.		New AC Received		135	tons	
				New Base Required		585	tons	
<b>COST ESTIMATE:</b>								
Right-of-Way	1	Acre		Price per unit		\$ 20,000		Cost ( \$x1000s) \$20
==Roadway==								
Clear & Grub	\$ 1,592	lump sum						\$2
General Excavation	350	cubic yards		\$ 12.00				\$4
Embankment in Place		cubic yards		\$ 12.00				\$0
Pavement Removal	-	square feet		\$ 0.45				\$0
Aggregate Base	585	tons		\$ 16.00				\$9
Asphalt Concrete	135	tons		\$ 65.00				\$9
Riprap	166	cubic yards		\$ 50.00				\$8
Guardrail, Type 2A	100	feet		\$ 11.50				\$1
Guardrail, Type 3	50	feet		\$ 38.00				\$2
Guardrail Trans	4	each		\$ 1,600.00				\$6
Flared Terminals	4	each		\$ 1,600.00				\$6
				Subtotal Roadway		\$48		
Structures (MC O'lay)	2,626	square feet		\$ 12.00 (Staged)				\$32
Signals	\$ -	lump sum						\$0
Illumination	\$ -	lump sum						\$0
Temporary Protection	\$ 37,000	lump sum		(Incl. Temp Signal)				\$37
Remove Existing Bridge	-	square feet		\$ 13.00				\$0
Mobilization	\$ 13,100	lump sum						\$13
Erosion Ctrl / Restortation	\$ 1,600	lump sum						\$2
Rail Retrofit & Girder Repai	\$ 102,200	lump sum		1.00				\$102
				Subtotal Structures		\$185		
				Subtotal Construction		\$233		
==Engineering==								
Construction Engineering	20	percent of construction						\$47
Contingency	25	percent of construction						\$58
				Subtotal Const. Eng.		\$105		
Preliminary Engineering Consultant	25	percent of construction						\$58
State		percent of construction						\$0
County	2	percent of construction						\$5
				Subtotal PE		\$63		
				<b>Total Estimate</b>		<b>\$422</b>		

## Bridge Project Prospectus Additional Bridge Information

Applicant: Yamhill County		NBIS Bridge Number: 11640A						
Project Name / Section: Baker Cr (Westside Rd) Br #11640A (Rehabilitation)		Region: 2	Area: 3	District: 3				
<b>Funding</b>  Preferred Source: <input checked="" type="checkbox"/> OTIA III <input type="checkbox"/> Federal HBRR  Acceptable Source: <input checked="" type="checkbox"/> OTIA III <input checked="" type="checkbox"/> Federal HBRR		<b>Heavy Vehicle Usage</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Existing</td> <td style="text-align: center;">Proposed</td> </tr> <tr> <td>Truck AADT: <input type="text" value="665"/></td> <td><input type="text" value="665"/></td> </tr> </table> <b>Fire Truck Usage:</b> <input type="checkbox"/> YES, at least 25% of trips use bridge. <input checked="" type="checkbox"/> NO. Less than 25% of trips	Existing	Proposed	Truck AADT: <input type="text" value="665"/>	<input type="text" value="665"/>	<b>Detour</b>  Detour Route: Length: <input type="text" value="22.1"/> Map: (Please attach map)	
Existing	Proposed							
Truck AADT: <input type="text" value="665"/>	<input type="text" value="665"/>							

**Regional Freight Corridor Analysis:**

A map is attached showing the area served by Bridge #11640. An estimated 62,300 acres of mixed agriculture and forestry uses are accessed by this bridge. A large share of this acreage is served by other bridges (#11645 and #11566) that are restrictive load rated and also current applicants for funding. Although Bridge #11640 is not currently load restricted it does have early signs of hairline width shear cracks in the exterior girders. This bridge is crucial to the entire NW county freight corridor in its own right but also as a potential replacement route for bridges #11645 and #11566 as they are repaired or replaced. The detour length for this structure is excessive (22.1 miles) and must utilize sub-standard local roads as the only viable route available given the load restrictions on bridges #11645 and #11566.

**Special Consideration:**

Bridge #11640 is the key bridge in the three major routes serving NW Yamhill County. This bridge has early evidence of structural problems in the form of hairline width shear cracks – no load restrictions are required as of this application.

Bridge #11640 is one of three bridges that provide alternative routes for the Tualatin Valley Hwy (Hwy 47) in Yamhill County. The reconstruction of a portion of Hwy 47 in the City of Yamhill envisions the use of this route and structure as a proposed detour. As Bridges #11566 and #11645 are repaired or replaced this route and structure will take a large share of their traffic.

Westside Road (including Bridge #11640) are shown as a critical route in the Yamhill County Emergency Management Plan.

## Bridge Project Prospectus

### Requested Changes to National Bridge Inventory System (NBIS) Data

(Form Optional)

<b>Applicant:</b> Yamhill County	<b>Bridge Number:</b> 11640A		
<b>Project Name / Section:</b> Baker Cr (Westside Rd) Br #11640A (Rehabilitation)	<b>Region:</b> 2	<b>Area:</b> 3	<b>District:</b> 3

This form must be completed if an agency is proposing a change to the data in the existing National Bridge Inventory System data. The information must be in conformance with the Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges, Report No. FHWA-PD-96-001, December 1995.

Changes proposed to the Detour Length, Average Daily Traffic and Truck Average Daily Traffic will be acquired from other parts of this application and used to compute updated Federal Sufficiency Ratings and in the calculation of the Technical Ranking Score.

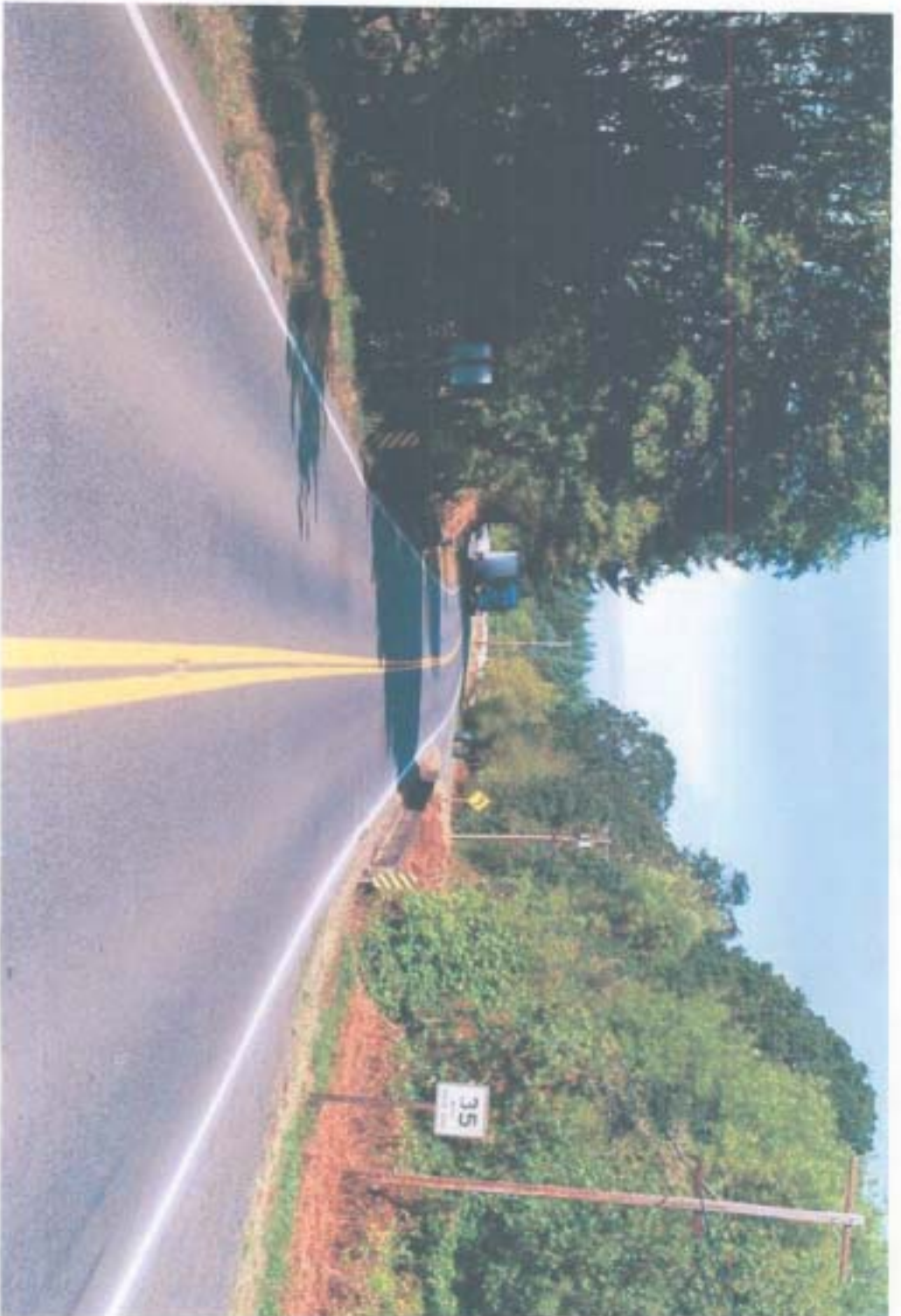
The data listed below are used in the calculations of the Technical Ranking Score and proposed changes will be considered. For any changes proposed, attach backup data as to the reason for the change.

Item 26	Functional Classification	
Item 28	A Lanes on Structure	
Item 32	Approach Roadway Width	
Item 43	Structure Type, Main	
Item 51	Bridge Roadway Width	
Item 53	Vertical Clearance over Deck	
Item 54	Underclearance	
Item 55	Minimum Left	
Item 56	Minimum Right	
Item 100	Defense Highway Designation	

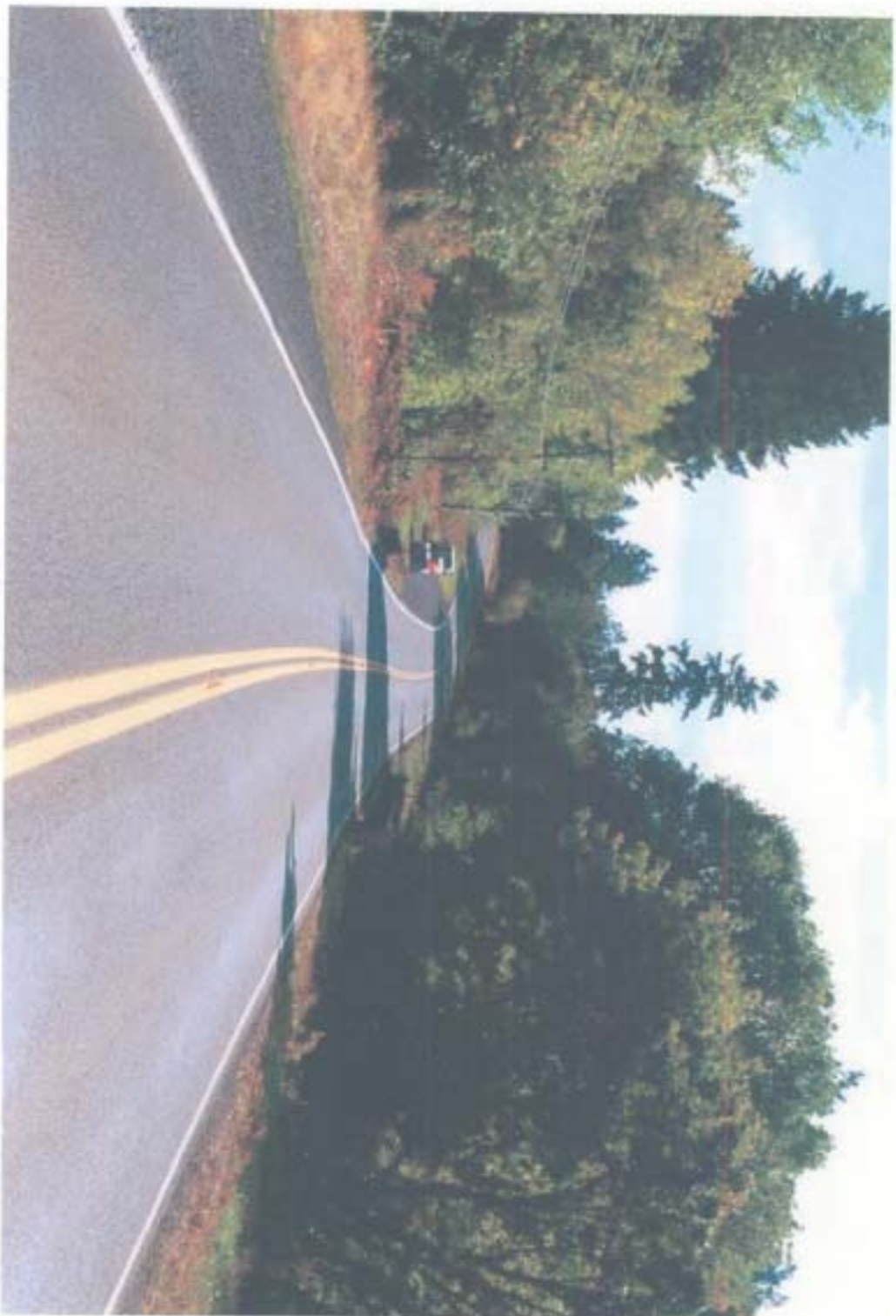
Items 58, 59, 60, 62, 67, 68, 69, 71 and 72 are used in the calculation of the Federal Sufficiency Rating. These data elements are supplied by ODOT and are not subject to corrections at this time.

The Inventory Rating (Item 66) must be provided by a Licensed Professional Engineer, based on calculations following ODOT's Load Rating Guidelines. The engineer's calculations must be included.

Item 66	Inventory Rating	
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Looking North



Looking South

BRIDGE# 11640 WESTSIDE RD. LOOKING UPSTREAM. (2560x1920x16M jpeg)



BRIDGE# 11640 WESTSIDE RD. LOOKING DOWNSTREAM. (2560x1920x16M jpeg)





Looking Downstream



Looking Upstream

BRIDGE# 11640 WESTSIDE RD., WEST UNDERSIDE. (2560x1920x16M jpeg)



BRIDGE# 11640 WESTSIDE RD. EAST UNDERSIDE. (2560x1920x16M jpeg)





**Yamhill County**  
**Public Works Department**  
2060 Lafayette Avenue, McMinnville, OR 97128  
Ph. 503.434.7515 Fax 503.472.4068 E-mail pubwork@co.yamhill.or.us

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William A. Gille, P.E.  
Director

Dan E. Linscheid, P.L.S.  
Assistant Director

Susan Mundy  
Road Master

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**TRAFFIC COUNT INFORMATION**  
**REPORT FOR BRIDGE # 11640**

**WESTSIDE ROAD**  
**COUNTY ROAD # 21**  
**(48-HR TRAFFIC COUNT)**

**DATA RECORDER LOCATION :** AS SPECIFIED

**PREPARED FOR :** SUSAN MUNDY  
ROAD MASTER

**PREPARED BY :** EDGAR B. PETEROS  
Road Master Technical Assistant

# **NORTH BOUND SUMMARY REPORT**

**Counter No. 1**

**Location: North of Rd No. 217  
(South End of Bridge)**

**ROAD DEPARTMENT  
TRAFFIC STUDY REPORT**

Road name : WESTSIDE RD  
 Location : NORTH OF 217  
 Lanes : # 1

Site: 2

Direction: N BD

Data for Wednesday 8/20/2003

**Vehicle Count Statistics**

<b>Daily Total</b>  1,694	<b>AM</b>	<b>Peak Hour</b>	11:00	<b>PM</b>	<b>Peak Hour</b>	05:15
		<b>Volume</b>	115		<b>Volume</b>	207
		<b>Factor</b>	0.90		<b>Factor</b>	0.98

**Speed Statistics**

MPH	1-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-999
Bin Totals	0	0	16	65	349	894	329	28	8	4	2	3	6
% of Totals	0.0	0.0	0.9	3.8	20.5	52.5	19.3	1.6	0.5	0.2	0.1	0.2	0.4

Avg. Speed 36.90 MPH

%ile Speeds	10%	15%	50%	85%	90%
	31.3 MPH	32.5 MPH	37.4 MPH	41.9 MPH	43.2 MPH

**Pace**

Speed	30-40 MPH
Number in pace	1,243
% in pace	72.9

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	3.0	0.9	0.5
Totals	51	15	9

**Class Statistics**

	Cars & Bikes	2 Axle	3 Axle	4 Axle	5 Axle	6 Axle	7 Axle	8 Axle	9 Axle	10 Axle	11 Axle	12 Axle	
	1 Tire	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	
Bin Totals	32	1,069	395	11	134	24	1	11	19	6	0	0	2
% of Totals	1.9	62.7	23.2	0.6	7.9	1.4	0.1	0.6	1.1	0.4	0.0	0.0	0.1

**Gap Statistics**

[Secs]	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-999
Bin Totals	237	156	105	101	89	77	61	56	58	38	24	19	128
% of Totals	20.6	13.6	9.1	8.8	7.7	6.7	5.3	4.9	5.0	3.3	2.1	1.7	11.1

**Error Statistics**

Sensor	A	B
Total Hits	7,932	7,910
Percent Used	95.0	95.0
Avg Axles Per Vehicle	2.11	
Avg Two Axle Wheelbase	9.7 ft.	

ROAD DEPARTMENT  
TRAFFIC STUDY REPORT

Road name : WESTSIDE RD  
Location : NORTH OF 217  
Counter # : # 1

Site: 2

Direction: N BD

Data for Thursday 8/21/2003

Vehicle Count Statistics

<b>Daily Total</b>	<b>AM</b>	<b>Peak Hour</b>	<b>06:15</b>	<b>PM</b>	<b>Peak Hour</b>	<b>04:30</b>
2,570		Volume	164		Volume	210
		Factor	0.98		Factor	0.91

Speed Statistics

MPH	1-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-999
Bin Totals	0	5	43	92	571	1,283	482	62	13	6	7	3	16
% of Totals	0.0	0.2	1.7	3.6	22.1	49.7	18.7	2.4	0.5	0.2	0.3	0.1	0.6

Avg. Speed 36.85 MPH

%ile Speeds	10%	15%	50%	85%	90%
	31.0 MPH	32.2 MPH	37.3 MPH	42.1 MPH	43.4 MPH

Pace

Speed	30-40 MPH
Number in pace	1,854
% in pace	71.8

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	4.1	1.2	0.7
Totals	107	32	19

Class Statistics

	Cars & 2 Axle Bikes	2 Axle 1 Tire	2 Axle 1.5 Base	3 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	
Bin Totals	40	1,589	603	18	198	77	0	19	19	5	0	2	13
% of Totals	1.5	61.5	23.3	0.7	7.7	3.0	0.0	0.7	0.7	0.2	0.0	0.1	0.5

Gap Statistics

[Secs]	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-999
Bin Totals	329	227	185	172	129	84	75	81	73	58	44	33	203
% of Totals	19.4	13.4	10.9	10.2	7.6	5.0	4.4	4.8	4.3	3.4	2.6	1.9	12.0

Error Statistics

Sensor	A	B
Total Hits	12,126	11,922
Percent Used	92.0	94.0
Avg Axles Per Vehicle	2.14	
Avg Two Axle Wheelbase	9.7 ft.	

ROAD DEPARTMENT  
TRAFFIC STUDY REPORT

Road name : WESTSIDE RD  
Location : NORTH OF 217  
Counter # : # 1

Site: 2

Direction: N BD

Data for Friday 8/22/2003

Vehicle Count Statistics

Daily Total	AM	Peak Hour	05:45	PM	Peak Hour	*
745		Volume	139		Volume	*
		Factor	0.94		Factor	*

Speed Statistics

MPH	1	4	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	69	70	999		
Bin Totals	0	3	20	47	172	381	101	8	6	1	2	2	2															
% of Totals	0.0	0.4	2.7	6.3	23.1	51.1	13.6	1.1	0.8	0.1	0.3	0.3	0.3															
Avg. Speed	35.90 MPH																											
%ile Speeds	10% 15% 50% 85% 90%																											
	30.1 MPH 31.2 MPH 36.7 MPH 40.5 MPH 42.4 MPH																											

Pace

Speed	30-40 MPH
Number in pace	553
% in pace	74.2

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	2.8	0.9	0.5
Totals	21	7	4

Class Statistics

	Cars & 2 Axle Trucks	2 Axle	3 Axle	4 Axle	<5 Axle	5 Axle	>6 Axle	<6 Axle	6 Axle	>6 Axle			
Bin Totals	15	415	177	7	63	49	0	6	6	4	0	0	3
% of Totals	2.0	55.7	23.8	0.9	8.5	6.6	0.0	0.8	0.8	0.5	0.0	0.0	0.4

Gap Statistics

[Secs]	5	9	10	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	999
Bin Totals	82	52	48	41	40	25	25	19	11	20	10	8	56													
% of Totals	18.8	11.9	11.0	9.4	9.2	5.7	5.7	4.3	2.5	4.6	2.3	1.8	12.8													

Error Statistics

Sensor	A	B
Total Hits	3,535	3,307
Percent Used	84.0	90.0
Avg Axles Per Vehicle	2.18	
Avg Two Axle Wheelbase	9.7 ft.	

# **SOUTH BOUND SUMMARY REPORT**

**Counter No. 1**

**Location: North of Rd No. 217  
(South End of Bridge)**

ROAD DEPARTMENT  
TRAFFIC STUDY REPORT

Road name : WESTSIDE RD  
Location : NORTH OF 217  
ter # : # 1

Site: 2

Direction: S BD

Data for Wednesday 8/20/2003

Vehicle Count Statistics

<b>Daily Total</b>	<b>AM</b>	<b>Peak Hour</b>	<b>11:00</b>	<b>PM</b>	<b>Peak Hour</b>	<b>05:00</b>
1,857		Volume	144		Volume	262
		Factor	0.77		Factor	0.90

Speed Statistics

MPH	1-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-999	
Bin Totals	0	8	12	170	814	673	147	21	6	1	1	1	8	
% of Totals	0.0	0.4	0.6	9.1	43.7	36.1	7.9	1.1	0.3	0.1	0.1	0.1	0.4	
Avg. Speed	34.46 MPH													
%ile Speeds	10%			15%			50%			85%			90%	
	29.9 MPH			30.6 MPH			34.6 MPH			39.3 MPH			40.0 MPH	

Pace

Speed	30-40 MPH
Number in pace	1,487
% in pace	79.9

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	2.0	0.6	0.5
Totals	38	11	9

Class Statistics

	Class	2 Axle	3 Axle	4 Axle	5 Axle	6 Axle	7 Axle	8 Axle	9 Axle	10 Axle	11 Axle	12 Axle	13 Axle
	Truck	Truck	Truck	Truck	Truck	Truck	Truck	Truck	Truck	Truck	Truck	Truck	Truck
Bin Totals	23	1,160	445	15	140	24	0	9	32	10	0	0	4
% of Totals	1.2	62.3	23.9	0.8	7.5	1.3	0.0	0.5	1.7	0.5	0.0	0.0	0.2

Gap Statistics

[Secs]	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-999
Bin Totals	193	127	113	86	86	88	53	41	32	23	22	18	149
% of Totals	18.7	12.3	11.0	8.3	8.3	8.5	5.1	4.0	3.1	2.2	2.1	1.7	14.5

Error Statistics

Sensor	A	B
Total Hits	7,932	7,910
Percent Used	95.0	95.0
Avg Axles Per Vehicle	2.11	
Avg Two Axle Wheelbase	9.7 ft.	

ROAD DEPARTMENT  
TRAFFIC STUDY REPORT

Site: 21

Road name : WESTSIDE RD  
Location : NORTH OF 217  
Tr # : # 1

Direction: S BD

Date for Thursday 8/21/2003

Vehicle Count Statistics

<b>Daily Total</b>	<b>AM</b>	<b>Peak Hour</b>	<b>08:15</b>	<b>PM</b>	<b>Peak Hour</b>	<b>04:15</b>
2,596		<b>Volume</b>	186		<b>Volume</b>	245
		<b>Factor</b>	0.79		<b>Factor</b>	0.68

Speed Statistics

MPH	1-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-999	
Bin Totals	0	1	20	302	1,207	844	179	22	9	2	1	1	13	
% of Totals	0.0	0.0	0.8	11.6	46.4	32.4	6.9	0.8	0.3	0.1	0.0	0.0	0.5	
Avg. Speed	34.08 MPH													
%ile Speeds	10%			15%			50%			85%			90%	
	29.0 MPH			30.3 MPH			34.1 MPH			39.0 MPH			39.8 MPH	

Pace

Speed	30-40 MPH
Number in pace	2,051
% in pace	78.9

Speed Exceeded

	45(MPH)	55(MPH)	65(MPH)
Percentage	1.8	0.7	0.5
Totals	48	17	14

Class Statistics

	Cars & 2 Axle		2 Axle		3 Axle		4 Axle		<5 Axle		>6 Axle		<6 Axle		6 Axle		>6 Axle	
	Dikes	Tire	Long	Busel	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Multi	Multi	Multi	Multi	Multi
Bin Totals	32	1,590	612	14	207	37	2	22	59	11	0	2	13					
% of Totals	1.2	61.1	23.5	0.5	8.0	1.4	0.1	0.8	2.3	0.4	0.0	0.1	0.5					

Gap Statistics

[Secs]	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-999
Bin Totals	242	184	128	119	107	94	75	66	63	48	32	31	202
% of Totals	17.4	13.2	9.2	8.6	7.7	6.8	5.4	4.7	4.5	3.5	2.3	2.2	14.5

Error Statistics

Sensor	A	B
Total Hits	12,126	11,922
Percent Used	92.0	94.0
Avg Axles Per Vehicle	2.14	
Avg Two Axle Wheelbase	9.7 ft.	

ROAD DEPARTMENT  
TRAFFIC STUDY REPORT

Road name : WESTSIDE RD  
Location : NORTH OF 217  
Counter # : # 1

Site: 21

Direction: S BD

Data for Friday 8/22/2003

Vehicle Count Statistics

Daily Total  610	AM	Peak Hour	10:00	PM	Peak Hour	*
		Volume:	144		Volume	*
		Factor	0.75		Factor	*

Speed Statistics

MPH	1	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	53	55	59	60	64	65	69	70	999		
Bin Totals	1	2	4	79	303	175	35	7	2	0	0	1	1															
% of Totals	0.2	0.3	0.7	13.0	49.7	28.7	5.7	1.1	0.3	0.0	0.0	0.2	0.2															
Avg. Speed	33.56 MPH																											
%ile Speeds	10% 15% 50% 85% 90%																											
	28.4 MPH 30.1 MPH 33.6 MPH 38.7 MPH 39.6 MPH																											

Pace

Speed	30-40 MPH
Number in pace	478
% in pace	78.4

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	1.8	0.3	0.3
Totals	11	2	2

Class Statistics

	Class 8   2 Axle	2 Axle	3 Axle	4 Axle	<5 Axle	5 Axle	>6 Axle	<6 Axle	6 Axle	>6 Axle			
	Bikes	Trnk	Long	Bus	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi
Bin Totals	7	345	156	5	54	11	0	6	19	4	0	0	3
% of Totals	1.1	56.6	25.6	0.8	8.9	1.8	0.0	1.0	3.1	0.7	0.0	0.0	0.5

Gap Statistics

[Secs]	5	9	10	14	15	19	20	24	25	29	30	34	35	39	40	44	45	49	50	54	55	59	60	64	65	999
Bin Totals	47	27	25	25	22	24	20	12	13	11	10	10	10	46												
% of Totals	16.1	9.2	8.6	8.6	7.5	8.2	6.8	4.1	4.5	3.8	3.4	3.4	3.4	15.8												

Error Statistics

Sensor	A	B
Total Hits	3,535	3,307
Percent Used	84.0	90.0
Avg Axles Per Vehicle	2.18	
Avg Two Axle Wheelbase	9.7 ft.	

Date:	Daily		# of Trucks	
	N. Bd.	S. Bd.	N. Bd.	S. Bd.
8/20/03	1,694	1,857	197	219
8/21/03	2,570	2,596	333	353
8/22/03	745	610	131	97
TOTALS	5,009	5,063	661	669

ADT Calcs:

$$\frac{48 \text{ hr. N. Bd.} + 48 \text{ hr. S. Bd.}}{2} = \frac{5,009 + 5,063}{2} = 5036 \text{ veh/day}$$

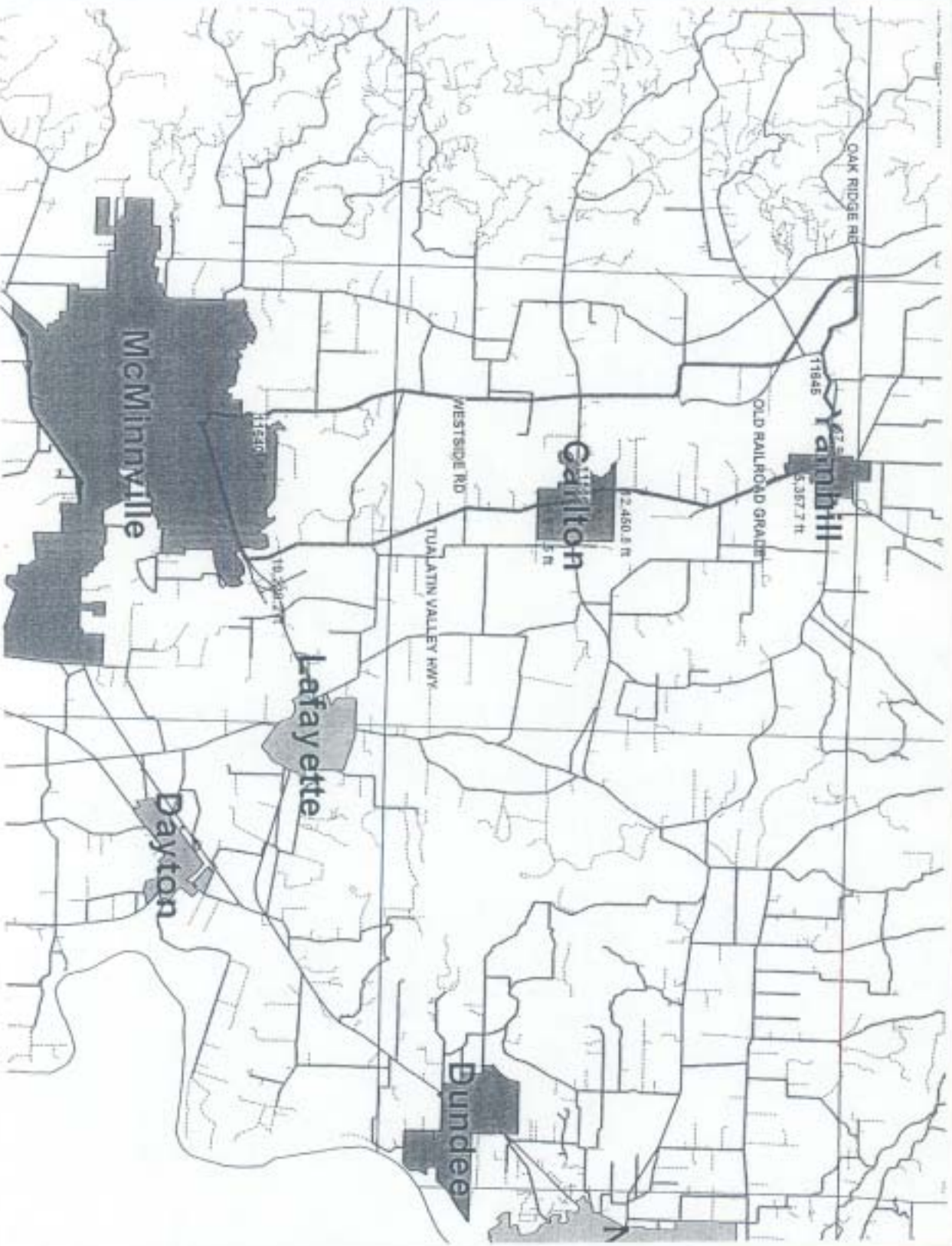
#Trucks Calc:

$$\frac{48 \text{ hr. N. Bd. Trucks} + 48 \text{ hr. S. Bd. Trucks}}{2} = \frac{661 + 669}{2} = 665 \text{ Trucks/day}$$

$$\frac{665}{5,036} = 13.2\% \text{ Trucks}$$

Detour for Bridge # 116410

# Yamhill County Scale Map



This map was produced using the Yamhill County GIS data. The GIS data is maintained by the Yamhill County GIS Department. The GIS data is not responsible for any errors or omissions on this map. The GIS Department is not responsible for any errors or omissions on this map.

## Legend

- City UCR
- Ashtly
- Carlton
- Dayton
- Dundee
- Lafayette
- McMinnville
- Novberg
- Sheridan
- Willamette
- Yamhill
- County Road
- County Roads
- State Highways
- BLM Roads
- Private Roads
- Public Roads
- Trenches

Westside Rd.  
 Baker Cr Rd  
 Evans St  
 Hwy 99W  
 TV Hwy 47  
 Moores Valley Rd  
 Oak Ridge Rd.  
 Old RR Grade  
 Westside Rd

Total Detour 22.1 mi.

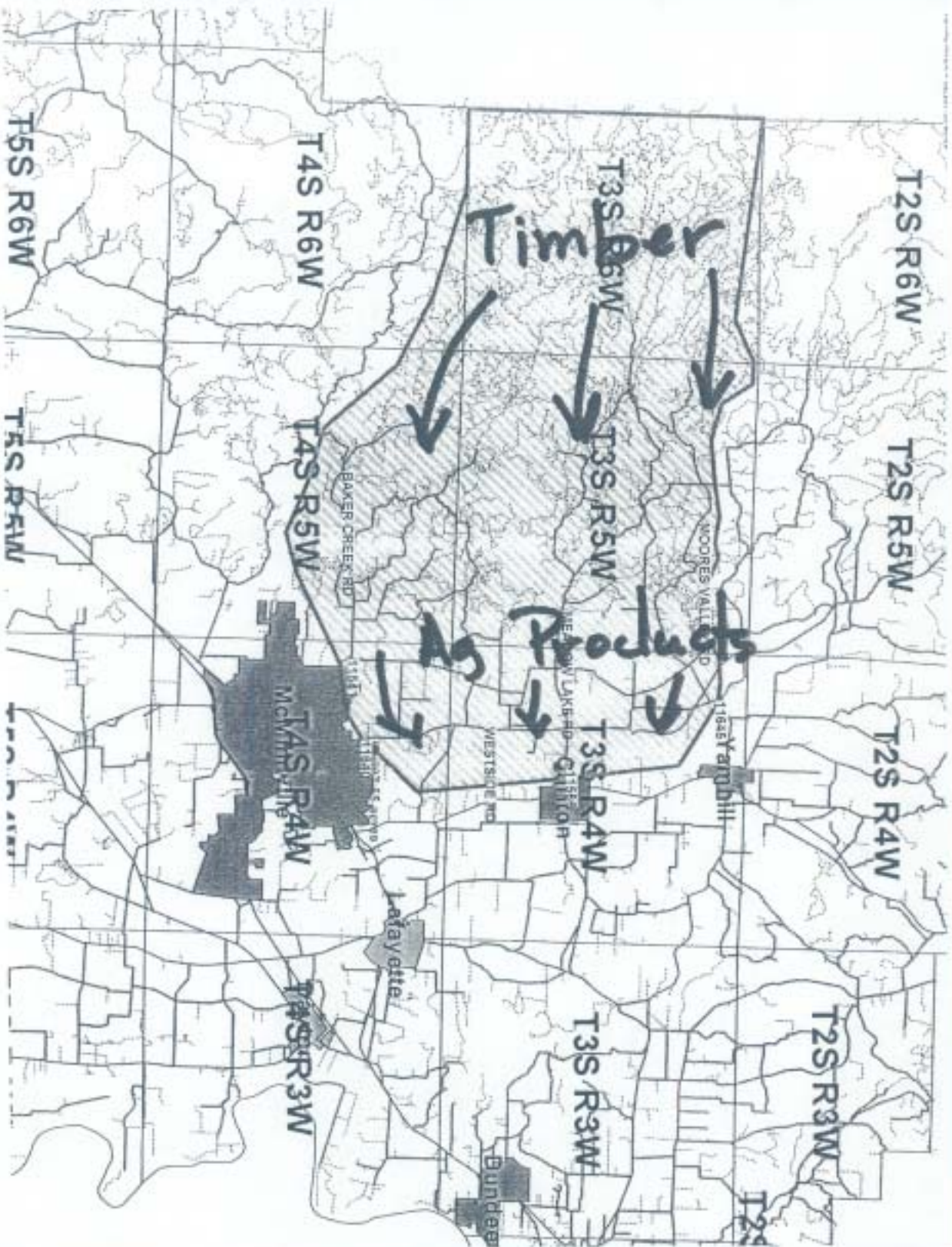
1 in. = 10077ft.

## Vicinity



9/21/2003

# Freight Corridor Analysis for Br #11640



This map was produced using the Yamhill County GIS data. The GIS data is maintained by the county to support its governmental activities. The county is not responsible for map errors, omissions, misuse or misinterpretation.

## Legend

- City UCR
- Astley
- Carlton
- Dayton
- Dunbar
- Lafayette
- Middletonville
- Newberg
- Sheridan
- Williamina
- Yamhill
- County Roads
- State Highways
- Road Roads
- Private Roads
- Public Roads
- Townships

Area served by  
Br #11640  
≈ 62,300 ac



1 in. = 15744 ft.

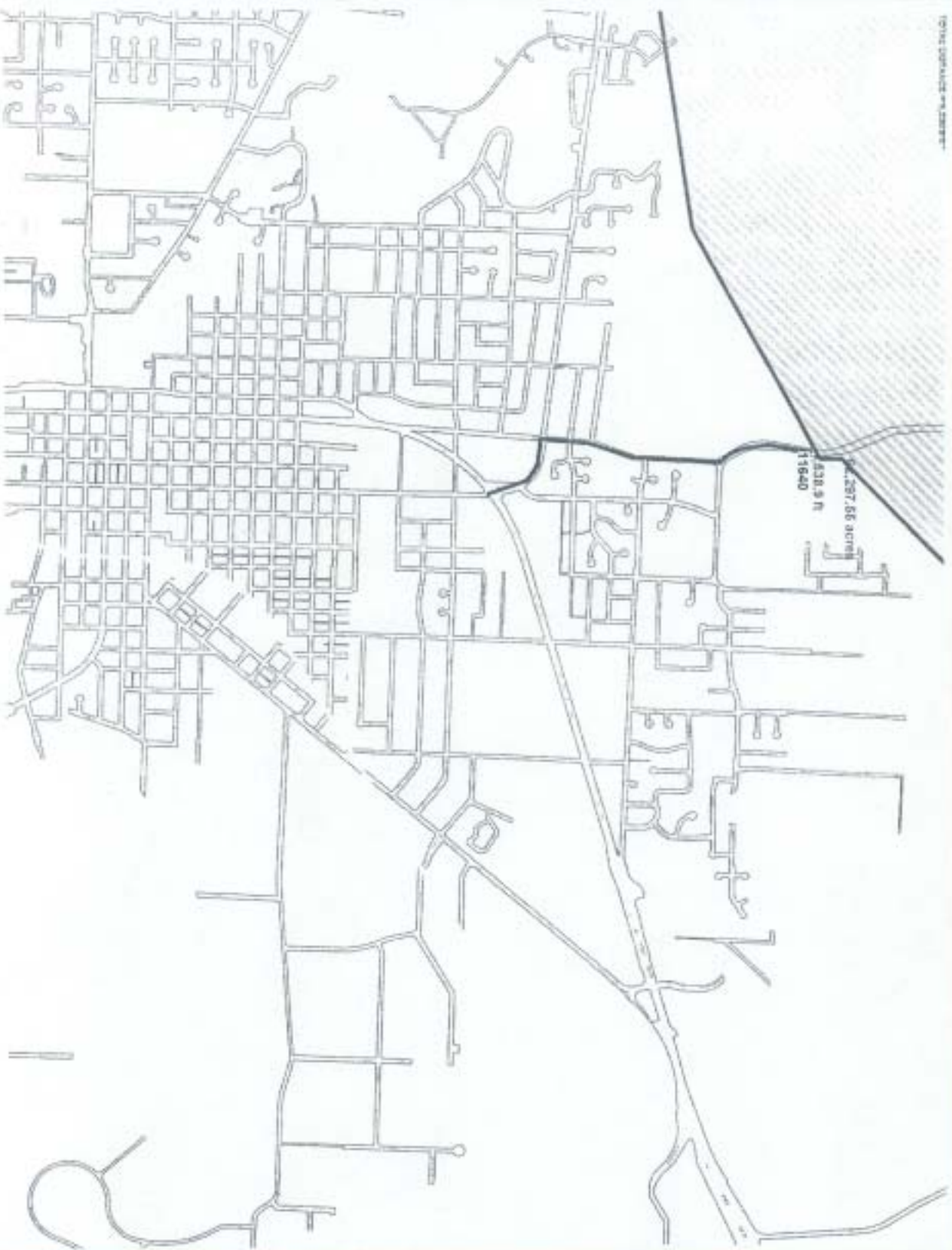
## Vicinity



10/12/2003

# Connection to Hwy 99W for Br #11640

10/12/2003 11:28:11 AM



**Legend**  
Township

*Dist to Hwy 99W  
= 0.86 miles*



11m. = 1837ft.  
**Vicinity**



This map was produced using the Yardsville Census GIS data. The GIS data is maintained by the county to support its governmental activities. The county is not responsible for map errors, omissions, misuse or misinterpretation.

10/12/2003

APPLICATION FOR BRIDGE # 11640  
REHAB OPTION

YAMHILL COUNTY BRIDGE PROJECTS IN PRIORITY ORDER

BR #	FACILITY CARRIED	FEATURE CROSSED
11566	Meadow Lake Road	North Yamhill River
11645	Moore's Valley Road	North Yamhill River
11540A	Baker Creek Road	Baker Creek
11526	Old Railroad Grade Road	North Yamhill River
01751A	Willamina Creek Road	Willamina Creek
11640	Westside Road	Baker Creek
11493	Lafayette Hwy.	Yamhill River

**SENATOR GARY GEORGE**  
DISTRICT 12  
PORTIONS OF BENTON,  
LINN, MARION, POLK &  
YAMHILL COUNTIES



**OREGON STATE SENATE**  
900 COURT ST NE  
SALEM, OREGON 97301

**Committees:**  
Member:  
Ways and Means  
Public Safety  
Subcommittee  
  
Transportation and  
Economic  
Development  
Subcommittee, Chair

REPLY TO ADDRESS INDICATED:

- 900 Court St NE S-214  
Salem, OR 97301
- 15195 NE Ribbon Ridge Rd.  
Newberg, OR 97132

To Whom It May Concern:

I am writing in regard to the current condition of Yamhill Counties Bridge system and the importance of securing funds for it's maintenance and repair.

I have grave concerns about the current condition of several bridges within Yamhill County and the possible effect these conditions may have on the local economy. Yamhill County strongly relies on both the tourism and logging industry both of which are dependent on access to the counties roads. Without immediate attention several bridges within Yamhill County will be shut down due to load bearing restrictions thus causing a negative impact on the local economy. One way or the other these bridges will have to be maintained or repaired so that business opportunities within the county can evolve.

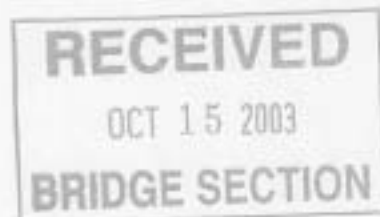
However, adequate funding is needed to begin work and there must be a recognition and willingness to do the maintenance and preservation work with the first available dollars.

I am therefore encouraging you to move forward with funding for Yamhill Counties much needed bridge repair. I have included a list of several bridges within the county that are in need of the most immediate attention and would ask that you consider taking the necessary steps to ensure funding for these projects. I understand that time is short and many factors must be considered, however your help in this matter would be looked upon with extreme favor.

Sincerely,

Gary George  
State Senator  
District 12

GG:jkd



Please consider funding for the repair of the following bridges:

Bridge #

- 11566 Meadow Lake Rd. / North Yamhill River (Scheduled for closure)
- 11645 Moores Valley Rd / North Yamhill River
- 11540A Baker Creek Rd. / Baker Creek
- 11526 Old RR Grade Rd. / North Yamhill River (Currently load rated at 10 tons)
- 01751A Willamina Creek Rd / Willamina Creek
- 11640 West Side Rd. / Baker Creek
- 11493 Lafayette Hwy. / Yamhill River



FAX TRANSMISSION COVER SHEET

**Yamhill County Public Works**  
**Engineering and Administration Division**  
2060 Lafayette Avenue  
McMinnville, OR 97128  
503-434-7515  
Fax : 503-472-4068

---

Date: Oct. 27, 2003

To : Mike Reynolds, DEA

Fax : (503) 361-8655

Re : Bridge # 11640 Rehab Data - SR & Life

Sender : Bill Gille

---

You should receive 6 page(s), including this cover sheet. If you do not receive all the pages, please call 503-434-7515 as soon as possible.

Mike,  
I have sent you the current inspection report (insp. date 3/13/03) and a projected SR calculated assuming rehab. completed.

CONFIDENTIAL STATEMENT

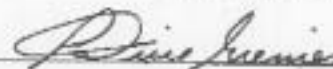
Bill Gille

The information contained in this facsimile message is legal and confidential information intended only for the use of the addressee listed on this cover sheet. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this telecopy is strictly prohibited. If you have received this facsimile in error, please notify us by telephone at the number listed on this cover sheet. Thank you.

## OREGON DEPT OF TRANSPORTATION BRIDGE INSPECTION REPORT

District	District 3	Owner	County Highway Agency	Bridge ID	11640A
Bridge Name	BAKER CREEK	County	Yamhill	Fac Carried	WESTSIDE ROAD
Local Name		Record Type	1	Mile Post	9.22
Local ID		Insp Freq	24 Months	Inspector 1	Grenier, Patrice (C0033)
Suff Rating	69.30	Insp Date	03/13/03	Inspector 2	
AC Depth	2.5 in	Bridge Length	102.0 ft	Bridge Width	30.7 ft

Signature: \_\_\_\_\_



### ELEMENT CONDITION STATES

Elem	Description	Env	Qty	Units	Element Condition States					Temp
					1	2	3	4	5	
13	Conc Deck Unprt w/AC Overlay	Moderate	2800	sqft	100%	0%	0%	0%	0%	N
110	Conc Open Girder	Moderate	404	ft	100%	0%	0%	0%	0%	N
155	Conc Floor Beam	Moderate	56	ft	100%	0%	0%	0%	0%	N
205	Conc Column/Pile Extn	Moderate	4	ea	100%	0%	0%	0%	0%	N
206	Timber Column/Pile Extn	Moderate	10	ea	100%	0%	0%	0%	0%	N
234	Conc Cap	Moderate	2	ea	100%	0%	0%	0%	0%	N
331	Conc Bridge Railing	Moderate	202	ft	95%	5%	0%	0%	0%	N
359	SF - Deck Soffit	Moderate	1	ea	100%	0%	0%	0%	0%	N

### APPRAISAL

Appraisal	NBI #	Rating
Scour	113	U Unknown foundation / No eval
Bridge Rail	36A	1 Meets acceptable standards
Transitions	36B	0 Does not meet standards
Approach Rail	36C	0 Does not meet standards
Rail Ends	36D	0 Does not meet standards
Structural	67	8 Equal to present minimum criteria
Deck Geometry	68	2 Basically intolerable requiring high priority of replacement
Clearance	69	N Not Applicable
Waterway	71	8 Equal to present desirable criteria
Approach Alignment	72	8 Equal to present desirable criteria

### NBI CATEGORY

Category	NBI #	Rating
Approach Condition		7 Good
Deck Wearing Surface		7 Good
Deck	58	7 Good
Superstructure	59	7 Good
Substructure	60	7 Good
Channel	61	8 Bank beginning to slump
Culvert/Retaining Walls	62	N Not Applicable

### REMARKS

Element #	Bent/Span	Member ID	Deficiency Description
13	All	Deck	> Hairline cracks in deck.
110	All	Girders	> Hairline cracks at midspan of exterior girders.
234	All	Caps	> Erosion has exposed piling.
990	Approach	Bent 4	> Pavement is beginning to settle.

### MAINTENANCE RECOMMENDATIONS

Work	Bent/	Est Comp
------	-------	----------

Crew #	Order	Priority	Elem #	Span	Member	Work	Cost	Date
		Monitor	13	All	Deck	Monitor hairline cracks.	200	
		Monitor	110	All	Girders	Monitor hairline cracks.	200	
		Routine/Schedule	234	All	Embank,	Install slope protection.	750	

### LOAD RATING

Rating Date	02/22/95	Posting Req	(5) = or > legal
Design Load	HS20	OR Method	Load Factor (LF)
Operating Rating	45.0 ton	IR Method	Load Factor (LF)
Inventory Rating	27.0 ton		

Truck	Operating Rating	Inventory Rating	% Below	Posting Required	Controlling Member	Actual Posting	Posting Date
Type 3	41.0		(5) = or > legal	No	XB_BENT2, SPAN 1 OF 1 V AT 0.13L		
Type 3S-2	64.400000000000006		(5) = or > legal	No		ton	
Type 3-3	50.399999999999999		(5) = or > legal	No		ton	

### LOAD RATING CONDITION COMPARISON CHART

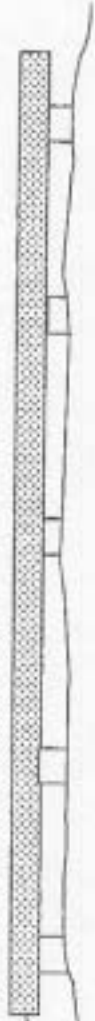
Category	NBI #	Rating Condition	Current Condition
Approach Condition		8 Very good	7 Good
Deck Wearing Surface		8 Very good	7 Good
Deck	58	7 Good	7 Good
Superstructure	59	7 Good	7 Good
Substructure	60	7 Good	7 Good
Temporary Repairs	103	No	No
Wearing Surface		2 in	2.5 in

### INSPECTION SCHEDULE

Activity	Conducted On	Frequency	Next Inspection
Routine Inspection	03/13/03	Every 2 yr	03/01/05

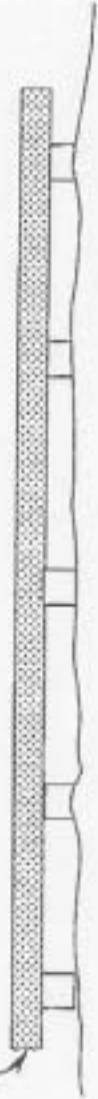
85.3 SUPP RATING	Functionally Obsolete	STRUCTURE AND INVENTORY APPRAISAL				BRIDGE NO 11640A
(1) HIGHWAY/CO RD.	000001	(43) STRUCT MAIN	2 Concrete continuous	(32) CRITICAL FEAT INSP	DATE	(93) DATE
(2) HIGHWAY DISTRICT	3	(44) STRUCT APPR	04 Tee Beam	(A) FRACTURE CRIT	n 00	1999
(3) COUNTY	71	(45) NUMBER MAIN SPANS	0 Other 00 Not Applicable	(B) UNDERWATER INSP	n 00	1999
(4) JNTORY ROUTE	00000	(46) NUMBER APPR SPANS	3	(34) COST OF IMPROVEMENT		252000.0
(5) FEATURES INT	141A07D50	(47) HORIZONTAL CLEARANCE	0	(35) ROADWAY IMPROVEMENT		25200.0
(6) FEATURES INT	BAKER CREEK	(48) MAXIMUM SPAN LENGTH	28.1	(36) PROJECT COST		403200.0
(7) FACILITY CARRIED	WESTSIDE ROAD	(49) STRUCTURE LENGTH	40.0	(37) YR OF IMPROVEMENT	2001-01-01	00:00:00
(8) STRUCTURE NUMBER	11640A021 00622	(50) SIDEWALK WIDTH	102.0	(38) BORDER BR ST-CODE		%
(9) LOCATION	007 MI N MCMINNVILLE	(51) DECK WIDTH	LT 1.5 RT 1.5	(39) BORDER STRUCTURE NO		0
(10) VERT CLEARANCE	100.0 ft	(52) VERT CLEAR OVER DECK	30.7	(100) DEFENSE HIGHWAY		0
(11) MILEPOINT	0.22	(53) VERT CLEAR UNDER DECK CD	100.0 ft	(101) PARALLEL STRUCTURE		N
(12) LATITUDE	45.2350 N	(54) MIN LAT UNDERCLEAR CD	0.00 ft	(102) DIRECTION OF TRAFFIC		2
(13) LONGITUDE	123.1983 W	(55) MIN LAT UNDERCLEAR	N RT 0.0	(103) TEMPORARY STRUCTURE		0
(14) BYPASS DETOUR	4.0	(56) MIN LAT UNDERCLEAR	LT 0.0	(104) HIGHWAY SYSTEM		0
(15) TOLL	3 On free road	*** CONDITION ***				
(16) CUSTODIAN	02 County Highway Agency	(58) DECK	7	(106) YEAR RECONSTRUCTED		
(17) OWNER	02 County Highway Agency	(59) SUPERSTRUCTURE	7	(107) DECK STRUCTURE		1
(18) FUNC CLASS	07 Rural Major Collector	(60) SUBSTRUCTURE	7	(108) WEARING SURFACE		800
(19) YEAR BUILT	1958	(61) CHANNEL	6	(109) TRUCK ADT		15.0%
(20) LANES ON	2 LANES UNDER 0	(62) CULVERT	N	(110) DESIGNATED NATIONAL NETWORK		0
(21) AVERAGE DAILY TRAFFIC	5460	(64) OPERATING RATING	45.0	(111) PIER PROTECTION		
(22) YEAR OF ADT	2000	(65) INVENTORY RATING	27.0	(112) NBIS BRIDGE LENGTH		Y
(23) DESIGN LOAD	5 HS20	*** APPRAISAL ***				
(24) APPROACH ROADWAY	28.0 ft	(67) STRUCTURE CONDITION	0	(113) SCOUR CRITICAL BRIDGE		U
(25) BRIDGE MEDIAN	0 None	(68) DECK GEOMETRY	2	(114) FUTURE ADT		7300.0
(26) FLARE	0	(69) UNDERCLEARANCE	N	(115) YEAR OF FUTURE ADT		2020
(27) TRAFFIC SAFETY FEATURE	1000	(70) POSTING	5	(116) VERT-LIFT CLEARANCE		
(28) HISTORICAL SIGNIFICANCE	4	(71) WATERWAY ADEQUACY	6	*** STATE INFORMATION ***		
(29) NAVIGATION CONTROL	0	(72) APPR RDWY ALIGNMENT	0	(117) EST MAINT COST		200.0
(30) NAVIGATION VERT CLEAR	0.0	(75) TYPE OF WORK	1 Done by contract	(118) CULVERT LENGTH		ft
(31) NAVIGATION HORZ CLEAR	0.0	(76) IMPROVEMENT LENGTH	102.0	(119) CULVERT INSIDE HEIGHT		ft
(32) OPEN STATUS	A	(80) INSPECTION DATE	0303	(120) INSPECTOR NUMBER	Grenier, Patrice	(C0033)
(33) TYPE SERVICE	1 Highway 5 Waterway	(81) INSPECTION FREQUENCY	24 MO	(121) MAINTENANCE NOTES		
(34) BASE HIGHWAY NETWORK	0	(83) OPER RATING METHOD	1			
(35) LRS INVENTORY CUTE		(85) INV RATING METHOD	1			
(36) FEDERAL LANDS						
(37) HWY						

**TIMBER BOKING REPORT**



Concrete Cap

BENT 1



Concrete Cap

BENT 4



COUNTY YAMHILL  
 BRIDGE NO. 11640A  
 NAME BAKER CREEK  
 OWNER COUNTY  
 DATE 03-13-03

Item #	Desc	Value	Comments	Tab	SubTab	units		
Item 19	Bypass	5450		5	3	km		
Item 28A	Lanes	2	first 2 digits	5	3			
Item 29	ADT	5450		5	3			
Item 32	Appr Width	8.53		5	3	meters		
Item 36	Traf Safety	1000	all 4 digits	4	1			
Item 43B	Struc Type	04	last 2 digits	5	2			
Item 51	Width	7.95	**see note below	5	3	meters		
Item 53	Vert Clear	100		4	1	meters		
Item 58	Deck Cond	7		1				
Item 59	Super Cond	7		1				
Item 60	Sub Cond	7		1				
Item 62	Culverts	N		1				
Item 66	Inv Rating	40		4	2	ton		
Item 67	Struc Eval	6		4	1			
Item 68	Deck Geom	2		4	1			
Item 69	Underclear	N		4	1			
Item 71	Waterway	8		1				
Item 72	Approach	8		4	1			
Item 100	Defense	0		5	3			
Sufficiency Rating		7.77	not input	4	1			
Bridge:	11640A							

\*\*This SR is not valid if Item 51 has no number. Then 10.9 should be used in C8.

PROJECTED SUFFICIENCY RATING - EVERYTHING BEING  
EQUATE. CHANGED INVENTORY RATING TO 40 TONS.

KRS 27 OCT 03

Estimated extended life after Rehab = 10 yrs.  
W. Gille