



PROJECT PROSPECTUS

Part 1 — Project Request (Page 1 of 2)

						Key Number:		Jurisdiction:			
Section: Yamhill River (Moores Valley Rd) Br #11645						Region: 2		Area: 3		District: 3	
State Highway No.:		Highway Name:				Mile Point From: To:		Length: (mi) (km) 0.00			
<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural		City:		MPO:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		County: Yamhill		Road/Street Name: Moores Valley Road	
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		\$256		Grading		X		Files (#)		4	
Right Of Way		\$20		Paving		X		Hectares (#)		1	
Utility Reimbursement				Structures		X		Relocations (#)		0	
				Signing				Acquisitions (#)		4	
Roadway		\$145		Signals				Easements (#)			
Structures		\$711		Illumination				Work By: State / Consultant / Applicant			
Signals		\$0						Preliminary Engineering (S,C,A)		C	
Illumination		\$0						Construction Engineering (S,C,A)		C	
Temp. Protection		\$22						Right of Way Descriptions (S,C,A)		C	
Const. Contingencies		\$305						Right Of Way Acquisitions (S,C,A)		C	
Const. Engineering		\$183		Project Categories				Constructed By			
Remove Exist Bridge		\$74		Environmental Class (1, 2, 3, PCE)				<input checked="" type="checkbox"/> Contract		<input type="checkbox"/> County Force	
Other		\$268		Design Category (1-7)				<input type="checkbox"/> State Force		<input type="checkbox"/> Other	
Total CE and Construction:		\$1,708		Work Type Code (1-13)				<input type="checkbox"/> City Force			
Total Estimate:		\$ 1,984		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 Moores Valley Rd Bridge is structurally deficient with shear cracks measuring 0.025" in outside girders. A recent load rating indicates a 9-ton inventory rating with a 15-ton operating rating. The bridge is also functionally obsolete due to width. During flood events, high water overtops the adjacent field. Bridge hydraulic clearance appears to be ok. Scour present to riverbank under large Cottonwood tree in the SW corner.							
Structures (#)		1	1								
Signals (#)		0	0								
Bike Way (#)		0	0								
Average Daily Traffic											
Year of ADT				Describe Proposed Solution: - Attach Sketch Map Construct a 2-span structure on the same alignment with a temporary detour or work bridge to the upstream side. Recommend picking up south end of the bridge for vertical curve to help with gradeline and drainage off the bridge.							
Throughway Y/N		Y	Y								
Prepared By: X William A. Little				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: Yamhill River (Moores Valley Rd) Br #11645

Region: 2

Area: 3

District: 3

Project Justification

The required restrictive load posting for this structure will result in significant hardships for the community. This bridge is a Major Collector in the county road system. Moores Valley Road is one of three major routes that carry agricultural, timber and residential traffic from the North Western half of Yamhill County. Moores Valley Road is shown as a "Critical Route" in the county's Emergency Management Plan. Moores Valley, Westside, and Meadow Lake Roads form a parallel route frequently used to re-route traffic on the Tualatin Valley Highway (Hwy 47). This route is shown as a potential detour for Hwy 47 construction in Yamhill scheduled for 2004.

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: _____ By: _____

Applicable Intergovernmental Agreements:

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

Administrative Recommendation

Bridge Prospectus Cost Estimate

Applicant:	Yamhill County	NBIS Bridge No.	11645
Project / Section	Yamhill River (Moore's Valley Rd) Br #11645	Region:	2
		Area:	3
		District:	3
<u>New Bridge / Roadway Configuration:</u>		<u>Existing Bridge:</u>	
Left Side Rail	1.5 feet	Bridge Length	185 feet
Left Sidewalk	feet	Bridge Width	30.6 feet
Shoulder	8 feet	Area	5661 square ft.
Lane 2	feet		
Lane 1	12 feet	New AC Top Width	43 feet
—CL—	0 feet	New AC Depth	4 inches
Lane 1	12 feet	New Base Depth	18 inches
Lane 2	0 feet	Project Length	790 feet
Shoulder	8 feet	Net Road Work Length	600 feet
Right Sidewalk	0 feet	X-Sect Side Slope	3 :1
Right Side Rail	1.5 feet	AC Avg Width	44 feet
		Base Avg Width	49.5 feet
Bridge Length	190 feet	Asphalt Density	150 pounds/ cu ft
Bridge Width	43 feet	Base Density	120 pounds/ cu ft
New Area	8170 square ft.	New AC Received	660 tons
		New Base Required	2673 tons
COST ESTIMATE:			
Right-of-Way	Quantity 1 Acre	Price per unit \$ 20,000	Cost (\$x1000s) \$20
==Roadway==			
Clear & Grub	\$ 18,580	lump sum	\$19
General Excavation	610	cubic yards	\$ 12.00 \$7
Embankment in Place	1,060	cubic yards	\$ 12.00 \$13
Pavement Removal	-	square feet	\$ 0.45 \$0
Aggregate Base	2,673	tons	\$ 16.00 \$43
Asphalt Concrete	660	tons	\$ 56.00 \$37
Riprap	216	cubic yards	\$ 50.00 \$11
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			\$145
Structures	8,170	square feet	\$ 87.00 \$711
Signals	\$ -	lump sum	\$0
Illumination	\$ -	lump sum	\$0
Temporary Protection	\$ 21,900	lump sum	\$22
Remove Existing Bridge	5,661	square feet	\$ 13.00 \$74
Mobilization	\$ 107,700	lump sum	\$108
Erosion Ctrl / Restoration	\$ 18,200	lump sum	\$18
Detour Bridge	5700	square feet	\$ 25.00 \$143
Subtotal Structures			\$1,075
Subtotal Construction			\$1,220
==Engineering==			
Construction Engineering	15	percent of construction	\$183
Contingency	25	percent of construction	\$305
Subtotal Const. Eng.			\$488
Preliminary Engineering			
Consultant	18	percent of construction	\$220
State	1	percent of construction	\$12
County	2	percent of construction	\$24
Subtotal PE			\$256
Total Estimate			\$1,984

Bridge Project Prospectus Additional Bridge Information

Applicant: Yamhill County		NBIS Bridge Number: 11645					
Project Name / Section: Yamhill River (Moores Valley Rd) Br #11645		Region: 2	Area: 3				
		District: 3					
Funding 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	Heavy Vehicle Usage <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 style="width: 50px;" type="text" value="122"/></td> <td><input style="width: 50px;" type="text" value="245"/></td> </tr> </table> Fire Truck Usage: <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 style="width: 50px;" type="text" value="122"/>	<input style="width: 50px;" type="text" value="245"/>	Detour Detour Route: Length: <input style="width: 50px;" type="text" value="11.6"/> Map: (Please attach map)	
Existing	Proposed						
Truck AADT: <input style="width: 50px;" type="text" value="122"/>	<input style="width: 50px;" type="text" value="245"/>						

Regional Freight Corridor Analysis:

A map is attached showing the area served by Bridge #11645. An estimated 30,000 acres of mixed agriculture and forestry uses are accessed by this bridge. Alternate routes are available, however they involve significant out of direction travel as well as neighborhood disruption caused by truck traffic. Oak Ridge Road, shown as part of the detour for this project also has a bridge across the North Yamhill River (Br #6610). This bridge is not load restricted at this time.

Special Consideration:

Bridge #11645 is one of three bridges that provide access to the North-Western half of Yamhill County. The bridge leading into Carlton (South of Br #11645) is load restricted and may have to be closed unless temporary repairs can be arranged. The third bridge is on Westside Road leading into McMinville. This bridge has hairline wide shear cracks in the exterior girders, however no load restrictions are required at this time.

Bridge #11645 is one of three bridges that provide alternative routes for the Tualatin Valley Highway (Hwy 47) and in fact the planned reconstruction of a portion of Hwy 47 in the City of Yamhill proposes to use bridge #11645 as well as bridge #11566 as potential detour routes during the construction phase.

Moores Valley Road (including bridge #11645) is shown as a critical route in the Yamhill County Emergency Management Plan.



LOOKING SOUTH



LOOKING NORTH

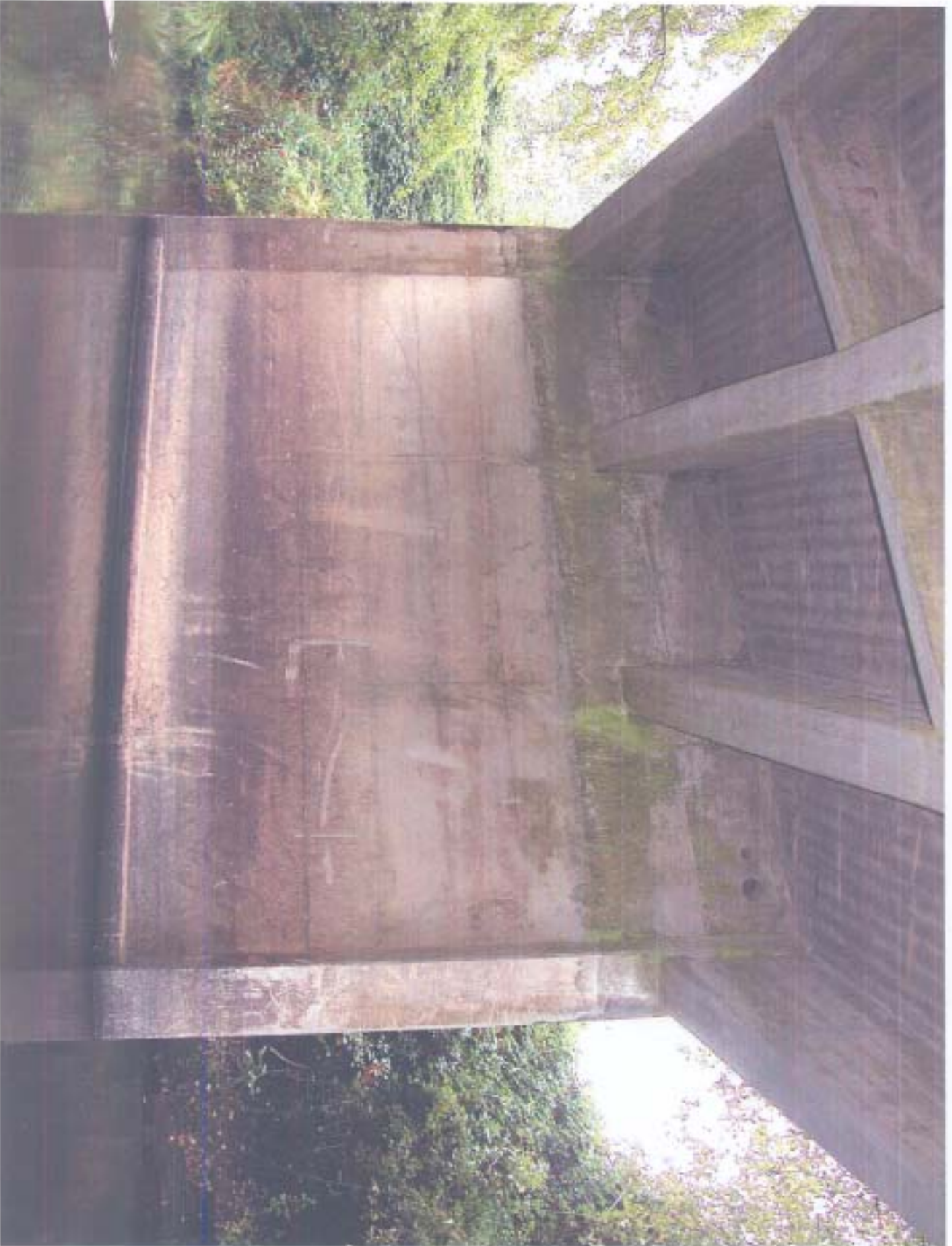
BRIDGE# 11645 MOORES VALLEY, LOOKING DOWNSTREAM. (2560x1920x16M jpeg)



BRIDGE# 11645 MOORES VALLEY. LOOKING UPSTREAM. (2560x1920x16M jpeg)



BRIDGE# 11645 MOORES VALLEY, SOUTH UNDERSIDE. (2560x1920x16M jpeg)

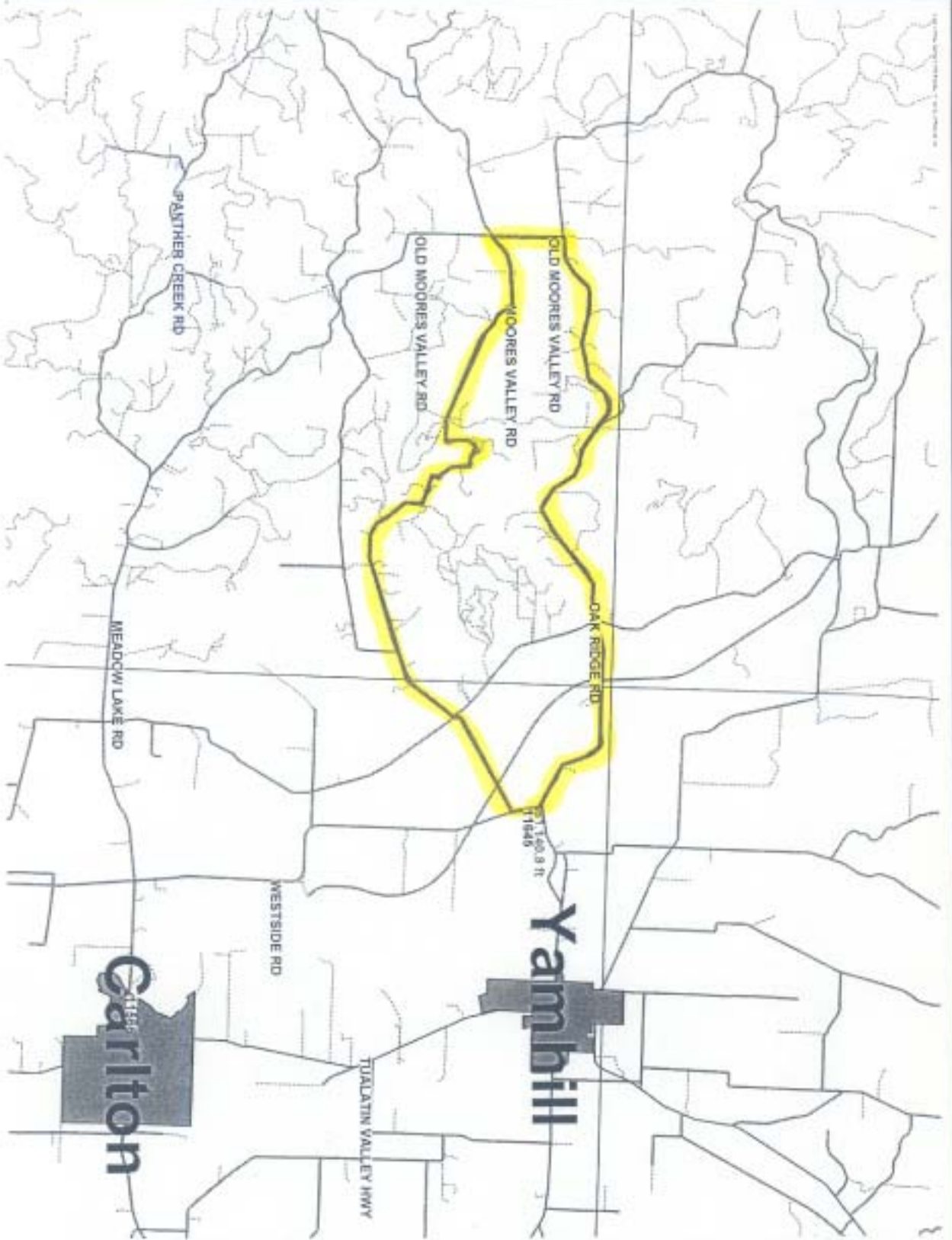


BRIDGE# 11645 MOORES VALLEY, NORTH UNDERSIDE 1. (2560x1920x16M jpeg)



**Detour Route For
Bridge # 11645**

Yamhill County Scale Map



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, omissions, omissions or misinterpretation.

Legend

- City/UGB
- Amy
- Carlton
- Dorsten
- Dunbar
- Ladygrove
- McMinnville
- Newberg
- Stedden
- Williamson
- Yamhill
- County Roads
- County Roads
- State Highways
- BLM Roads
- Private Roads
- Public Roads
- Townships

Moores Valley Rd
Oak Ridge Rd
Old Moores Valley Rd
Moores Valley Rd
Total Detour 116.45



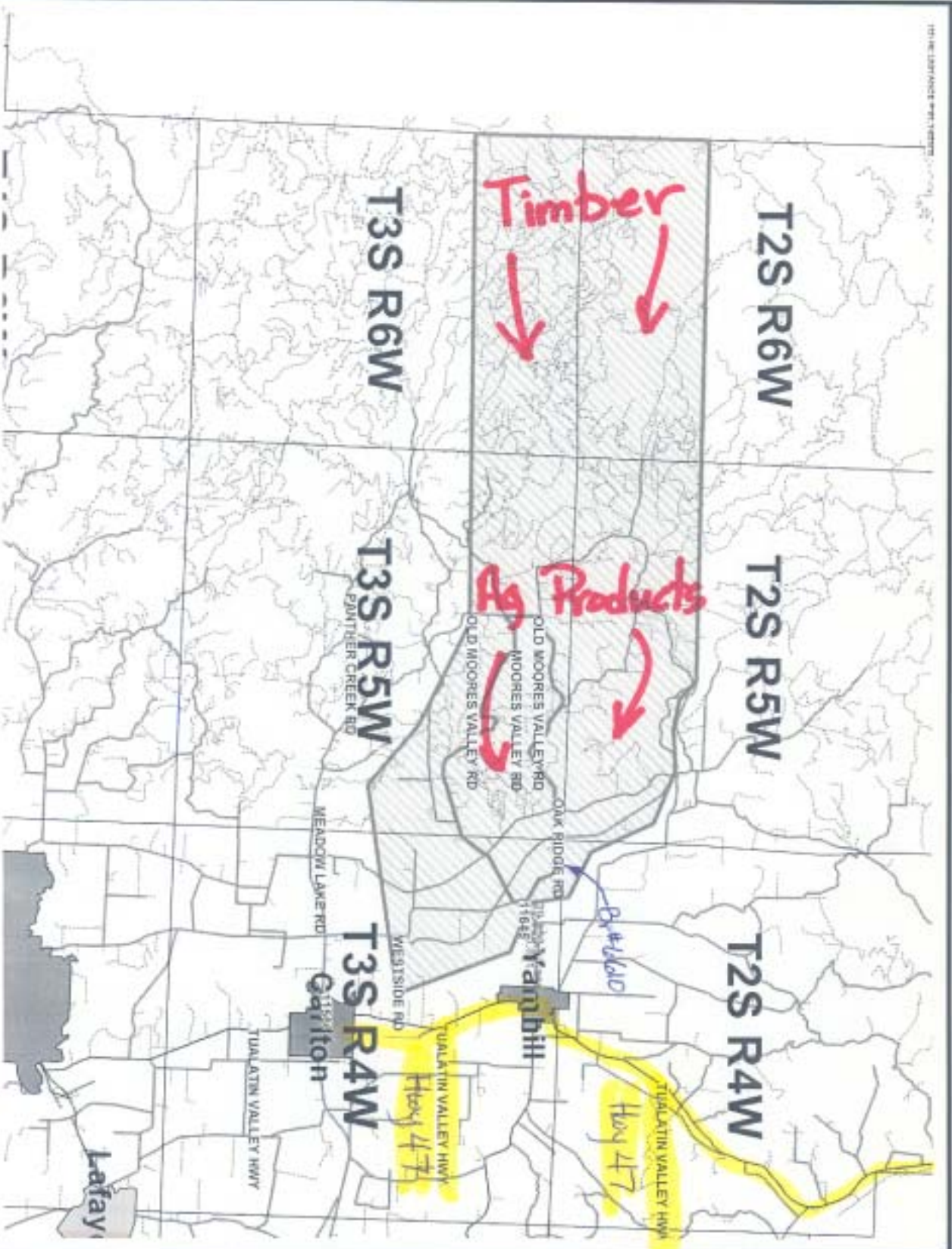
1 in. = 5926ft.

Vicinity



10/11/2003

Freight Corridor Map



This map was produced using the Yarrhill 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/UGB
- County
- Carbon
- Dryden
- Dunbar
- Ladysmith
- McKinnonville
- Norberg
- Shenandoah
- Williamson
- Yarrhill
- County Roads
- State Highways
- BLM Roads
- Private Roads
- Public Roads
- Townships



1in. = 11852ft

Vicinity



10/11/2003



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

William A. Gille, P.E.
Director

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

Susan Mundy
Road Master

TRAFFIC COUNT INFORMATION
REPORT FOR BRIDGE # 11645

MOORES VALLEY ROAD
COUNTY ROAD # 224
(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. 3

Location: North End of Bridge

YAMHILL COUNTY PUBLIC WORKS

ROAD DEPARTMENT TRAFFIC STUDY REPORT

Road name : MOORES VALLEY RD
 Location : NORTH END OF BRIDGE
 Counter # : #3

Site: BRIDGE 11645

Direction: N BD

Data for Monday 9/15/2003

Vehicle Count Statistics

Daily Total	AM	Peak Hour	10:45	PM	Peak Hour	04:30
719		Volume	46		Volume	107
		Factor	0.82		Factor	0.79

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	2	1	3	6	29	103	217	204	119	29	8	1	1
% of Totals	0.3	0.1	0.4	0.8	4.0	14.2	30.0	28.2	16.5	4.0	1.1	0.1	0.1

Avg. Speed 44.50 MPH

%ile Speeds	10%	15%	50%	83%	90%
	36.6 MPH	38.3 MPH	45.0 MPH	52.1 MPH	53.6 MPH

Pace

Speed	40-50 MPH
Number in pace	421
% in pace	58.2

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	50.1	5.4	0.3
Totals	362	39	2

Class Statistics

	Curv & Bikes	2 Axle	Long	2 Axle	6 Tire	3 Axle	Single	4 Axle	Single	5 Axle	Double	6 Axle	Double	6 Axle	Multi	6 Axle	Multi	6 Axle	Multi
Bin Totals	2	444	183	2	74	2	0	10	2	3	0	0	0	1					
% of Totals	0.3	61.4	25.3	0.3	10.2	0.3	0.0	1.4	0.3	0.4	0.0	0.0	0.1						

Gap Statistics

[Secs]	3-9	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	46	45	27	35	33	31	35	27	15	25	12	14	238
% of Totals	7.9	7.7	4.6	6.0	5.7	5.3	6.0	4.6	2.6	4.3	2.1	2.4	40.8

Error Statistics

Sensor	A	B
Total Hits	3,019	3,020
Percent Used	99.0	99.0
Avg Axles Per Vehicle	2.07	
Avg Two Axle Wheelbase	9.9 ft.	

YAMHILL COUNTY PUBLIC WORKS

ROAD DEPARTMENT TRAFFIC STUDY REPORT

Site: BRIDGE 11645

Road name : MOORES VALLEY RD
 Location : NORTH END OF BRIDGE
 Cor # : #3

Direction: N BD

Data for Tuesday 9/16/2003

Vehicle Count Statistics

Daily Total	AM	Peak Hour	07:45	PM	Peak Hour	05:45
1,042		Volume	113		Volume	85
		Factor	0.71		Factor	0.76

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	1	0	2	2	34	130	313	296	194	57	12	1	3
% of Totals	0.1	0.0	0.2	0.2	3.3	12.4	30.0	28.3	18.6	5.5	1.1	0.1	0.3

Avg. Speed 45.38 MPH

%ile Speeds	10%	15%	50%	85%	90%
	37.5 MPH	39.5 MPH	45.7 MPH	52.9 MPH	54.2 MPH

Pace

Speed 40-50 MPH
 Number in pace 609
 % in pace 58.3

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	53.9	7.0	0.4
Totals	563	73	4

Class Statistics

Bin Totals	Cars & 2 Axle Bikes		2 Axle Bases		3 Axle Single		4 Axle Single		5 Axle Double		6 Axle Double		6 Axle Multi		7 Axle Multi	
	Trls	Long	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Multi	Multi	Multi	Multi	
	5	680	241	5	93	6	0	7	3	5	0	0	0	0	0	
% of Totals	0.5	65.1	23.1	0.5	8.9	0.6	0.0	0.7	0.3	0.5	0.0	0.0	0.0	0.0	0.0	

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	84	77	48	51	41	43	35	21	34	25	27	31	349
% of Totals	9.7	8.9	5.5	5.9	4.7	5.0	4.0	2.4	3.9	2.9	3.1	3.6	40.3

Error Statistics

Sensor	A	B
Total Hits	4,061	4,055
Percent Used	98.0	98.0
Avg Axles Per Vehicle	2.05	
Avg Two Axle Wheelbase	9.7 ft.	

YAMHILL COUNTY PUBLIC WORKS

ROAD DEPARTMENT TRAFFIC STUDY REPORT

Road name : MOORES VALLEY RD
 Location : NORTH END OF BRIDGE
 Icr # : #3

Site: BRIDGE 11645

Direction: N BD

Data for Wednesday 9/17/2003

Vehicle Count Statistics

Daily Total	AM	Peak Hour	07:30	PM	Peak Hour	*
		Volume	115		Volume	*
		Factor	0.82		Factor	*

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	2	2	0	5	16	29	95	118	95	35	15	0	0
% of Totals	0.5	0.5	0.0	1.2	3.9	7.0	23.1	28.6	23.1	8.5	3.6	0.0	0.0

Avg. Speed 46.53 MPH

%ile Speeds	10%	15%	50%	85%	90%
	37.9 MPH	40.4 MPH	47.4 MPH	54.4 MPH	56.3 MPH

Pace

Speed	40-50 MPH
Number in pace	213
% in pace	51.7

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	63.8	12.1	0.0
Totals	263	50	0

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	13 Axle
Bin Totals	4	264	94	2	39	4	0	2	0	1	0	0	2
% of Totals	1.0	64.1	22.8	0.5	9.5	1.0	0.0	0.5	0.0	0.2	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	54	25	22	15	15	19	11	18	10	10	7	8	130
% of Totals	15.7	7.3	6.4	4.4	4.4	5.5	3.2	5.2	2.9	2.9	2.0	2.3	37.8

Error Statistics

Sensor	A	B
Total Hits	1,374	1,360
Percent Used	96.0	97.0
Avg Axles Per Vehicle	2.06	
Avg Two Axle Wheelbase	9.7 ft.	

SOUTH BOUND SUMMARY REPORT

Counter No. 3

Location: North End of Bridge

YAMHILL COUNTY PUBLIC WORKS

ROAD DEPARTMENT TRAFFIC STUDY REPORT

Road name : MOORES VALLEY RD
 Location : NORTH END OF BRIDGE
 Cor # : #3

Site: BRIDGE 11645

Direction: S BD

Data for Monday 9/15/2003

Vehicle Count Statistics

Daily Total	AM	Peak Hour	10:30	PM	Peak Hour	04:15
		Volume	44		Volume	121
		Factor	0.61		Factor	0.84

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	3	7	41	133	310	159	57	9	3	0	0
% of Totals	0.0	0.0	0.4	1.0	5.7	18.4	42.9	22.0	7.9	1.2	0.4	0.0	0.0

Avg. Speed 42.44 MPH

%ile Speeds	10%	15%	50%	85%	90%
	35.8 MPH	37.2 MPH	42.9 MPH	48.8 MPH	49.9 MPH

Pace

Speed	40-50 MPH
Number in pace	469
% in pace	65.0

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	31.6	1.7	0.0
Totals	228	12	0

Class Statistics

	Cars & 2 Axle Bikes	2 Axle 1 Tire	2 Axle 2 Tire	3 Axle 1 Tire	3 Axle 2 Tire	4 Axle 1 Tire	4 Axle 2 Tire	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
Bin Totals	2	424	204	1	69	5	0	10	5	2	0	0	0
% of Totals	0.3	58.7	28.3	0.1	9.6	0.7	0.0	1.4	0.7	0.3	0.0	0.0	0.0

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	68	40	46	26	30	29	25	30	30	20	22	18	234
% of Totals	11.0	6.5	7.4	4.2	4.9	4.7	4.0	4.9	4.9	3.2	3.6	2.9	37.9

Error Statistics

Sensor	A	B
Total Hits	3,019	3,020
Percent Used	99.0	99.0
Avg Axles Per Vehicle	2.07	
Avg Two Axle Wheelbase	9.9 ft.	

YAMHILL COUNTY PUBLIC WORKS

ROAD DEPARTMENT TRAFFIC STUDY REPORT

Road name : MOORES VALLEY RD
 Location : NORTH END OF BRIDGE
 Cor # : #3

Site: BRIDGE 11645

Direction: S BD

Data for Tuesday 9/16/2003

Vehicle Count Statistics

Daily Total	AM	Peak Hour	07:30	PM	Peak Hour	05:45
		Volume	57		Volume	109
		Factor	0.71		Factor	0.80
891						

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	1	15	55	172	363	223	61	4	1	0	1
% of Totals	0.0	0.0	0.1	1.7	6.1	19.2	40.5	24.9	6.8	0.4	0.1	0.0	0.1

Avg. Speed 42.20 MPH

%ile Speeds	10%	15%	50%	85%	90%
	35.6 MPH	36.9 MPH	42.8 MPH	48.5 MPH	49.5 MPH

Pace

Speed	40-50 MPH
Number in pace	586
% in pace	65.4

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	32.4	0.7	0.1
Totals	290	6	1

Class Statistics

	Class & 2 Axle			2 Axle		3 Axle	4 Axle	<5 Axle		>6 Axle		>6 Axle		>6 Axle
	Bikes	Tire	Low	Base	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	
Bin Totals	4	579	206	2	90	3	1	4	3	3	0	0	1	
% of Totals	0.4	64.6	23.0	0.2	10.0	0.3	0.1	0.4	0.3	0.3	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	60	52	47	38	33	33	36	32	31	30	23	17	332
% of Totals	7.9	6.8	6.2	5.0	4.3	4.3	4.7	4.2	4.1	3.9	3.0	2.2	43.5

Error Statistics

Sensor	A	B
Total Hits	4,061	4,055
Percent Used	98.0	98.0
Avg Axles Per Vehicle	2.05	
Avg Two Axle Wheelbase	9.7 ft.	

YAMHILL COUNTY PUBLIC WORKS

ROAD DEPARTMENT TRAFFIC STUDY REPORT

Road name : MOORES VALLEY RD
 Location : NORTH END OF BRIDGE
 Ter # : #3

Site: BRIDGE 11645

Direction: S BD

Data for Wednesday 9/17/2003

Vehicle Count Statistics

Daily Total	AM	Peak Hour	07:45	PM	Peak Hour	*
		Volume	64		Volume	*
		Factor	0.80		Factor	*
231						

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	0	5	10	48	85	58	21	2	1	0	0
% of Totals	0.0	0.4	0.0	2.2	4.3	20.8	36.8	25.1	9.1	0.9	0.4	0.0	0.0

Avg. Speed 42.48 MPH

%ile Speeds	10%	15%	50%	85%	90%
	35.8 MPH	37.0 MPH	43.1 MPH	49.1 MPH	50.2 MPH

Pace

Speed	40-50 MPH
Number in pace	143
% in pace	61.9

Speed Exceeded	45(MPH)	55(MPH)	65(MPH)
Percentage	35.5	1.3	0.0
Totals	82	3	0

Class Statistics

	Cus & 2 Axle		2 Axle		3 Axle	4 Axle	<5 Axle	5 Axle	>6 Axle	<6 Axle	6 Axle	>6 Axle	
	Bikes	Truck	Truck	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi
Bin Totals	1	143	50	1	27	4	1	3	1	0	0	0	0
% of Totals	0.4	61.9	21.6	0.4	11.7	1.7	0.4	1.3	0.4	0.0	0.0	0.0	0.0

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	55-999
Bin Totals	9	13	18	6	7	16	4	6	8	4	6	8	99
% of Totals	4.4	6.4	8.8	2.9	3.4	7.8	2.0	2.9	3.9	2.0	2.9	3.9	48.5

Error Statistics

Sensor	A	B
Total Hits	1,374	1,360
Percent Used	96.0	97.0
Avg Axles Per Vehicle	2.06	
Avg Two Axle Wheelbase	9.7 ft.	

Date:	Daily TOTALS		# of Trucks	
	N. Bd.	S. Bd.	N. Bd.	S. Bd.
9/15/03	719	716	92	91
9/16/03	1,042	891	114	105
9/17/03	412	231	48	36
	2,173	1838	254	232

ADT Calc:

$$\frac{48 \text{ hr. N. Bd.} + 48 \text{ hr. S. Bd.}}{2} = \frac{2,173 + 1,838}{2} = 2,005 \text{ veh/day}$$

of Trucks Calc:

$$\frac{48 \text{ hr. N. Bd. Trucks} + 48 \text{ hr. S. Bd. Trucks}}{2} = \frac{254 + 232}{2} = 243 \text{ Truck/day}$$

$$\frac{243}{2,005} = 12.1\% \text{ Trucks}$$

Bridge Project Prospectus

Requested Changes to National Bridge Inventory System (NBIS) Data

(Form Optional)

Applicant: Yamhill County	Bridge Number: 11645		
Project Name / Section: Yamhill River (Moores Valley Rd) Br #11645	Region: 2	Area: 3	District: 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	209
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Oregon Department of Transportation Technical Services Branch

Bridge Engineering Section
Local Agency Bridge Load Rating
Posting Summary Sheet

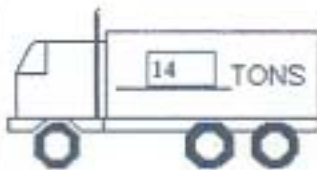
Local Agency: Yamhill County

NBIS Bridge Number: 11645

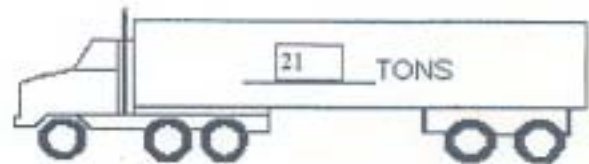
Date: 6/20/03

Truck	Inventory	Operating	Posting Required
HS Equivalent	HS 5	HS 8	N/A
HS 20 (36 Ton)	9.0 Tons	15.0 Tons	N/A
Type 3 (25 Ton)	Tons	14.3 Tons	YES
Type 3S2 (40 Ton)	Tons	20.8 Tons	YES
Type 3-3 (40 Ton)	Tons	20.4 Tons	YES
Permit 5 (60.25 Ton)	Tons	23.5 Tons	N/A
Permit 6 (75.25 Ton)	Tons	24.1 Tons	N/A
Permit 7 (92.5 Ton)	Tons	28.7 Tons	N/A

OREGON LEGAL LOADS RECOMMENDED POSTING



TYPE 3



TYPE 3S2



TYPE 3-3

COMMENTS:

Posting is required due to the presence of shear cracks and the reduction in shear capacity of the section due to the shear cracks.

Expires: _____



OREGON D.O.T. BRIDGE SECTION
LOAD RATING SUMMARY REPORT (PAGE 1)

For local agency bridges, Lane Section: 82390

BRIDGE DATA

BRIDGE #: 11045 NBI FEATURE: Vanalst River
 BRIDGE NAME: Vanalst River
 HIGHWAY NAME: Moore Valley Road
 REGION: 2 DIST: 03 COUNTY: Yamhill HIGHWAY #: 321
 YEAR BUILT: 1955 DESIGN LOADING: HS20 OWNER: Yamhill County MILEPOST: 1.50
 SPAN DESIGN: 3-span continuous reinforced concrete girders. 56', 70' and 67'-4" reinforced concrete girders
 OTHER DESIGN: No ACNTS, concrete safety curb with concrete posts and rail (Standard Drawing No. 11917)



LOAD RATING ENGINEER DATA

RATING DATE: 6/29/93 FIRM: Gatch Consulting ENGINEER: JES CALCULATION BOOK: 1

LATEST INSPECTION DATA

INSP. DATE: 3/24/93 ADT: 446 ADTT: 67 A.C. DEPTH (INCHES): 0.0
 DECK: 0 SUPERSTR.: 6 SUBSTR.: 7 APPROACH ROADWAY: 0 WEARING SURFACE: 0
 CONDITION RATINGS: 9

RATING DATA

LOAD FACTORS: LFD FACTOR LOAD RATINGS FOR N.B.I.: INVENTORY: HS 1.30 7.2 OPERATING: HS 1.65 7.4
 INVENTORY CODE: (2+veve) 299 OVER CODE: (2+veve) 215
 SECTIONS EVALUATED: 23 COMMENTS: DISTRI. FACTORS: Single Lane: 1.278
 Multiple Lanes: 1.175
 Operational Status (Item 41): 0
 Bridge Posting Status (Item 70): 0
 Temporary Status (Item 103): 0

LOAD	1st rating control				2nd rating control							
	R.F.	Lane Shape or V	+1M MEMBER	SPAN	R.F.	Lane Shape or V	+1M MEMBER	SPAN	LOCATION			
DESIGN & LEGAL VEHICLES HS20 (72K) TYPE 3 (65K) TYPE 3S3 MAX (80K) TYPE 2-3 (89K) ASPH/TO LANE LOAD	0.47	SR	V	0.85 int. girder	3 of 3	0.225L	0.71	SR	V	0.85 int. girder	3 of 3	0.280L
	0.45	SR	V	0.85 int. girder	3 of 3	0.225L	0.67	SR	V	0.85 int. girder	3 of 3	0.280L
	0.50	SR	V	0.85 int. girder	3 of 3	0.225L	0.54	SR	V	0.85 int. girder	3 of 3	0.286L
	0.58	SR	V	0.85 int. girder	3 of 3	0.225L	0.53	SR	V	0.85 int. girder	3 of 3	0.286L
PERMIT VEHICLES, MULTIPLE LANES, FULL IMPACT PERMIT-5 (120.5K) PERMIT-6 (150.5K) PERMIT-7 (180.0K) SPECIAL-1 SPECIAL-2	0.45	SR	V	0.85 int. girder	3 of 3	0.225L	0.67	SR	V	0.85 int. girder	3 of 3	0.286L
	0.46	SR	V	0.85 int. girder	3 of 3	0.225L	0.54	SR	V	0.85 int. girder	3 of 3	0.286L
	0.35	SR	V	0.85 int. girder	3 of 3	0.225L	0.53	SR	V	0.85 int. girder	3 of 3	0.286L
	0.42	SR	V	0.85 int. girder	3 of 3	0.225L	0.62	SR	V	0.85 int. girder	3 of 3	0.286L
PERMIT VEHICLES, SINGLE LANE, FULL IMPACT PERMIT-5 (120.5K) PERMIT-6 (150.5K) PERMIT-7 (180.0K) SPECIAL-1 SPECIAL-2	0.33	SR	V	0.85 int. girder	3 of 3	0.225L	0.50	SR	V	0.85 int. girder	3 of 3	0.286L
	0.32	SR	V	0.85 int. girder	3 of 3	0.225L	0.49	SR	V	0.85 int. girder	3 of 3	0.286L
	0.42	SR	V	0.85 int. girder	3 of 3	0.225L	0.62	SR	V	0.85 int. girder	3 of 3	0.286L
	0.33	SR	V	0.85 int. girder	3 of 3	0.225L	0.50	SR	V	0.85 int. girder	3 of 3	0.286L
PERMIT VEHICLES, SINGLE LANE, 10% IMPACT PERMIT-5 (120.5K) PERMIT-6 (150.5K) PERMIT-7 (180.0K) SPECIAL-1 SPECIAL-2	0.32	SR	V	0.85 int. girder	3 of 3	0.225L	0.49	SR	V	0.85 int. girder	3 of 3	0.286L
	0.42	SR	V	0.85 int. girder	3 of 3	0.225L	0.62	SR	V	0.85 int. girder	3 of 3	0.286L
	0.33	SR	V	0.85 int. girder	3 of 3	0.225L	0.50	SR	V	0.85 int. girder	3 of 3	0.286L
	0.32	SR	V	0.85 int. girder	3 of 3	0.225L	0.49	SR	V	0.85 int. girder	3 of 3	0.286L

OREGON D.O.T. BRIDGE SECTION

LOAD RATING WORKSHEET (PAGE 2)

BRIDGE NO: 11945
BRIDGE NAME: Yamhill River

RATING DATE: 6/20/03

SECTION EVALUATED	1st	2nd	3rd	4th	5th	6th	7th	8th
LRFD Brass Out File Name: FORCE TYPE (+M or V): PHI (Resistance Factor): MEMBER (eg. Int. girder): SPAN (eg. 1 of 4): LOCATION (eg. 0.1L): AASHTO Impact (1+1) Pts Only:	exlgr_n,out +M 0.85 Int. girder 1 of 3 0.4L	exlgr_n,out +M 0.85 Int. girder 1 of 3 0.5L	exlgr_n,out -M 0.85 Int. girder 2 of 3 0.0L	exlgr_n,out +M 0.85 Int. girder 2 of 3 0.5L	exlgr_n,out V 0.85 Int. girder 1 of 3 0.042L	exlgr_n,out V 0.85 Int. girder 1 of 3 0.102L	exlgr_n,out V 0.85 Int. girder 1 of 3 0.139L	exlgr_n,out V 0.85 Int. girder 1 of 3 0.189L
MIN RATINGS (HS20 VEHICLE) INVENTORY (HS20) OPERATING (HS20)	0.97 1.62	1.09 1.82	1.62 2.70	1.01 1.68	0.76 1.27	0.63 1.05	0.97 1.45	0.95 1.56
DESIGN & LEGAL VEHICLES HS20 (72K) TYPE 3 (50K) TYPE 3S2 MAX (80K) TYPE 3-J (80K) AASHTO LANE LOAD	1.42 Sr 1.88 Sr 1.87 Sr 1.74 Sr	1.58 Sr 2.10 Sr 2.09 Sr 1.92 Sr	2.35 Sr 3.30 Sr 2.12 Sr 2.53 Sr	1.45 Sr 1.93 Sr 1.99 Sr 1.66 Sr	1.22 Sr 1.66 Sr 1.69 Sr 1.53 Sr	1.01 Sr 1.48 Sr 1.43 Sr 1.31 Sr	1.39 Sr 1.88 Sr 1.80 Sr 1.79 Sr	1.50 Sr 2.03 Sr 2.04 Sr 1.95 Sr
PERMIT VEHICLES, MULTIPLE LANES, FULL IMPACT	PERMIT-5 (120.5K) PERMIT-6 (150.5K) PERMIT-7 (185.0K) SPECIAL-1 SPECIAL-2	1.49 Sr 1.17 Sr 1.27 Sr	1.59 Sr 1.33 Sr 1.38 Sr	1.49 Sr 1.15 Sr 1.01 Sr	1.60 Sr 1.34 Sr 1.57 Sr	1.31 Sr 1.08 Sr 1.07 Sr	1.01 Sr 0.85 Sr 0.89 Sr	1.49 Sr 1.22 Sr 1.23 Sr
PERMIT VEHICLES, SINGLE LANE, FULL IMPACT	PERMIT-5 (120.5K) PERMIT-6 (150.5K) PERMIT-7 (185.0K) SPECIAL-1 SPECIAL-2	1.37 Sr 1.08 Sr 1.17 Sr	1.56 Sr 1.23 Sr 1.27 Sr	1.37 Sr 1.06 Sr 0.93 Sr	1.48 Sr 1.24 Sr 1.45 Sr	1.21 Sr 1.00 Sr 0.99 Sr	0.93 Sr 0.76 Sr 0.82 Sr	1.37 Sr 1.13 Sr 1.13 Sr
PERMIT VEHICLES, SINGLE LANE, 10% IMPACT	PERMIT-6 (120.5K) PERMIT-6 (150.5K) PERMIT-7 (185.0K) SPECIAL-1 SPECIAL-2	1.37 Sr 1.08 Sr 1.17 Sr	1.56 Sr 1.23 Sr 1.27 Sr	1.37 Sr 1.06 Sr 0.93 Sr	1.48 Sr 1.24 Sr 1.45 Sr	1.21 Sr 1.00 Sr 0.99 Sr	0.93 Sr 0.76 Sr 0.82 Sr	1.37 Sr 1.13 Sr 1.13 Sr



OREGON D.O.T. BRIDGE SECTION

LOAD RATING SUMMARY REPORT (PAGE 1)

For local agency bridges. Latest Revision: 8/2000

BRIDGE DATA

BRIDGE #: 11645 NBI FEATURE: Yamhill River
 BRIDGE NAME: Yamhill River
 HIGHWAY NAME: Moores Valley Road
 REGION: 2 DIST: 03 COUNTY: Yamhill HIGHWAY #: 021
 YEAR BUILT: 1955 DESIGN LOADING: HS20 OWNER: Yamhill County MILEPOST: 1.59
 SPAN DESCR: No ACWS; concrete safety curb with concrete posts and rail (Standard Drawing No. 11917)
 OTHER DESCR:

LOAD RATING ENGINEER DATA

RATING DATE: 6/2003

FIRM: Evoxtech Consulting

ENGINEER: KL

CALCULATION BOOK: 1

LATEST INSPECTION DATA

INSP. DATE: 3/14/03
 DECK: 6
 CONDITION RATINGS --> 6

ADT: 446
 SUPERSTR: 6

ADTT: 67
 SUBSTR: 7

YEAR of ADT (2 digits): 00
 APPROACH ROWWY: 6
 WEARING SURFACE: 6

A.C. DEPTH, INCHES: 0.0

RATING DATA

LRFD FACTORS: IMPACT I+I: 1.10 γ_a
 LOAD FACTOR LOAD RATINGS FOR N.B.I.: INVENTORY HS: 5.0
 INVENTORY CODE (2+tons): 209
 SECTIONS EVALUATED: 23 COMMENTS: Arch-butt drawings for structure; shear crack report provided; shear capacity reduction will be taken into account.

OPERATING HS: 1.20
 OPER. CODE (2+tons): 215

OPERATING HS: γ_a 1.85
 Multiple Lanes: 1.179

DISTRIB. FACTORS: Single Lane: 1.278
 Temporary Status (Item 103): 0

Operational Status (Item 41): A
 Bridge Posting Status (Item 70): 0
 Temporary Status (Item 103): 0

NBI STATUS ITEMS



**OREGON D.O.T. BRIDGE SECTION
LOAD RATING WORKSHEET (PAGE 3)**

BRIDGE NO: 11645
BRIDGE NAME: Yamhill River

RATING DATE: 6/20/03

SECTION EVALUATED	9th		10th		11th		12th		13th		14th		15th		16th		
	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V	exlg _r , n _o ut V		
LRFD Brass C/JT Fla Name: FORCE TYPE (1-1M or V): FRI (Resistance Factor): MEMBER (eg. str girder): SPAN (eg. 1 of 4): LOCATION (eg. 0.1L): AASHTO Impact (1+1) P/S Only	0.85 Int. girder 1 of 3 0.795L	0.85 Int. girder 1 of 3 0.932L	0.85 Int. girder 2 of 3 0.164L	0.85 Int. girder 2 of 3 0.213L	0.85 Int. girder 2 of 3 0.239L	0.85 Int. girder 2 of 3 0.273L	0.85 Int. girder 2 of 3 0.716L	0.85 Int. girder 2 of 3 0.809L									
NBI RATINGS (HS20 VEHICLE) INVENTORY (HS20) OPERATING (HS20)	0.52 0.87	0.56 0.97	0.55 0.92	0.56 0.93	0.53 0.88	0.71 1.18	0.74 1.23	0.61 1.02									
DESIGN & LEGAL VEHICLES HS20 (72K) TYPE 3 (50K) TYPE 3S2 MAX (80K) TYPE 3-3 (80K) AASHTO LANE LOAD	0.88 Str 1.21 Str 1.12 Str 1.06 Str	0.88 Str 1.36 Str 1.29 Str 1.12 Str	0.91 Str 1.26 Str 1.16 Str 1.08 Str	0.93 Str 1.28 Str 1.17 Str 1.12 Str	0.87 Str 1.25 Str 1.11 Str 1.13 Str	1.15 Str 1.57 Str 1.42 Str 1.44 Str	1.20 Str 1.63 Str 1.48 Str 1.50 Str	1.01 Str 1.39 Str 1.26 Str 1.21 Str									
PERMIT VEHICLES, MULTIPLE LANES, FULL IMPACT	0.84 Str 0.88 Str 0.65 Str	0.95 Str 0.77 Str 0.71 Str	0.87 Str 0.70 Str 0.68 Str	0.88 Str 0.70 Str 0.67 Str	0.87 Str 0.68 Str 0.68 Str	1.08 Str 0.86 Str 0.63 Str	1.13 Str 0.90 Str 0.87 Str	0.95 Str 0.76 Str 0.73 Str									
PERMIT VEHICLES, SINGLE LANE, FULL IMPACT	0.77 Str 0.63 Str 0.60 Str	0.88 Str 0.71 Str 0.66 Str	0.80 Str 0.65 Str 0.61 Str	0.81 Str 0.65 Str 0.62 Str	0.80 Str 0.63 Str 0.63 Str	1.00 Str 0.79 Str 0.77 Str	1.04 Str 0.83 Str 0.80 Str	0.88 Str 0.70 Str 0.67 Str									
PERMIT VEHICLES, SINGLE LANE, 10% IMPACT	0.77 Str 0.63 Str 0.60 Str	0.88 Str 0.71 Str 0.66 Str	0.80 Str 0.65 Str 0.61 Str	0.81 Str 0.65 Str 0.62 Str	0.80 Str 0.63 Str 0.63 Str	1.00 Str 0.79 Str 0.77 Str	1.04 Str 0.83 Str 0.80 Str	0.88 Str 0.70 Str 0.67 Str									

Application For BRIDGE # 11645

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

RECEIVED
OCT 15 2003
BRIDGE SECTION

Please consider funding for the repair of the following bridges:

Bridge #

11566	Meadow Lake Rd. / North Yamhill River (Scheduled for closure)
11645	Moore's 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