



# PROJECT PROSPECTUS

Part 1 — Project Request (Page 1 of 2)

Section: Johnson Creek (Portland) Bridge 11086		Key Number:		Jurisdiction:	
State Highway No.: NA		Highway Name: SE Foster Rd		Mile Point	
Region: 1		Area:		District: 2B	
City: Portland		MPO: Y		Length: (mi) (km) 0.019 mi	
<input checked="" type="checkbox"/> Urban		<input checked="" type="checkbox"/> Yes		Road/Street Name: SE Foster Rd	
<input type="checkbox"/> Rural		<input type="checkbox"/> No		County: Multnomah	
Route No.: NA		NHS: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FC: Applicant (If other than State): City of Portland, Office of Transportation	
US Congressional District: 3		State Senate District: 22		State Representative District: 44	
Cost Estimates ( x \$ 1,000)		Project Components		Right Of Way	
Preliminary Engineering	\$222	Grading	X	Files	(#) 2
Right Of Way	\$0	Paving	X	Hectares	(#)
Utility Reimbursement		Structures	X	Relocations	(#) 0
		Signing	X	Acquisitions	(#)
Roadway	\$32	Signals		Easements	(#)
Structures	\$551	Illumination	X	Work By: State / Consultant / Applicant	
Signals	\$0			Preliminary Engineering	(S.C.A.) A
Illumination	\$200			Construction Engineering	(S.C.A.) A
Temp. Protection	\$50			Right of Way Descriptions	(S.C.A.) A
Const. Contingencies	\$171			Right Of Way Acquisitions	(S.C.A.) A
Const. Engineering	\$171	Project Categories		Constructed By	
Remove Exlat Bridge	\$22	Environmental Class	(1, 2, 3, FCE) 2	<input checked="" type="checkbox"/> Contract	<input type="checkbox"/> County Force
Other	\$0	Design Category	(1-7) 7	<input type="checkbox"/> State Force	<input type="checkbox"/> Other
Total CE and Construction:	\$1,198	Work Type Code	(1-13) 5	<input type="checkbox"/> City Force	
Total Estimate:	\$ 1,421	Primary STIP Work Type:			
Recommended Let Date By Federal Fiscal Year (Quarter-Year):					
PE Fund:		R/W Fund:		UR Fund:	
PE EA:		R/W EA:		UR EA:	
CE-CN Fund:		CE-CN EA:			
Item	Existing	Proposed	Define The Problem:		
Travel Lanes (#)	1	1	This is a reinforced concrete rigid frame structure over Johnson Creek that was built in 1915 and is nearing the end of its useful life. Current load reating requires posting of the structure which is a problem for a rapidly growing area of Portland because frquent detours for legal loads are necessary. The width of the current structure is narrower than what is required for a travel lane, bike land and shoulders. The channel for Johnson Creek must narrow and bend in order to pass under this structure and the headroom is not sufficient for large flow events.		
Structures (#)	1	1			
Signals (#)	0	0			
Bike Way (#)	Y	Y			
Average Daily Traffic	8300	15200			
Year of ADT	2000	2020			
Throughway	Y/N	N	Describe Proposed Solution: - Attach Sketch Map		
			City proposes to remove the existing structure and replace it with a new bridge that will be wider and have a higher load carrying capacity. The new structure will have a longer span on a skew that will allow widening and realigning the channel of the creek.		
Prepared By:	Date:	OTC Approval Date:	Program Year:	Funding Amount:	
X Calvin H. Lee, P.E.	10/12/03				



# PROJECT PROSPECTUS

Part 1 Project Request (Page 2 of 2)

Key Number:

Jurisdiction:

Section: Johnson Creek (Portland) Bridge 11086

Region:

1

Area:

0

District:

2B

## Project Justification

This is a reinforced concrete rigid frame structure over Johnson Creek that was built in 1915 and is nearing the end of its useful life. Current load rating requires posting of the structure which is a problem for a rapidly growing area of Portland because frequent detours for legal loads are necessary. The width of the current structure is narrower than what is required for a travel lane, bike lane and shoulders. The channel for Johnson Creek must narrow and bend in order to pass under this structure and the headroom is not sufficient for large flow events. City proposes to remove the existing structure and replace it with a new bridge that will be wider and have a higher load carrying capacity. The new structure will have a longer span on a skew that will allow widening and realigning the channel of the creek.

## Additional Information For Project Requested By Local Jurisdictions

Responsible Local Office To Be Contacted For The Following Activities:

- |  |                |               |
|--|----------------|---------------|
| 1. Public Hearing /<br>Citizen Involvement | _____ (Office) | _____ (Phone) |
| 2. Environmental / Planning                | _____ (Office) | _____ (Phone) |
| 3. Pre-Engineering                         | _____ (Office) | _____ (Phone) |

This Official Request is From:

City of:

Portland

and/or

County

By: Calvin H. Lee, P.E.

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

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

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

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

Applicable Intergovernmental Agreements:

IGA Number:

Jurisdiction Name:

Agreement Date:

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## Administrative Recommendation



0-2004

## Bridge Prospectus Cost Estimate

		NBIS	
		Bridge No.	
Applicant:	City of Portland, Office of Trans	11086	
Project /	Johnson Creek (Portland) Bridge	Region:	Area:
Section	11086	1	0
			District: 2B
<b>New Bridge / Roadway Configuration:</b>			
Left Side Rail	1.25 feet	Existing Bridge:	
Left Sidewalk	feet	Bridge Length	40 feet
Shoulder	4 feet	Bridge Width	22 feet
Lane 2	feet	Area	880 square ft.
Lane 1	12 feet	New AC Top Width	24 feet
---CL---	feet	New AC Depth	8 inches
Lane 1	feet	New Base Depth	12 inches
Lane 2	feet	Project Length	165 feet
Shoulder	6 feet	Net Road Work Length	65 feet
Right Sidewalk	7 feet	X-S Side Slope	
Right Side Rail	1.25 feet	AC Avg Width	feet
Bridge Length	100 feet	Base Avg Width	27 feet
Bridge Width	31.5 feet	Asphalt Density	140 pounds/ cu ft
New Area	3150 square ft.	Base Density	125 pounds/ cu ft
		New AC Received	73 tons
		New Base Required	109 tons
<b>COST ESTIMATE:</b>			
	Quantity	Unit	Price per unit
Right-of-Way		Acre	Cost ( \$x1000s)
			\$0
==Roadway==			
Clear & Grub	\$ 10,000	lump sum	\$10
General Excavation		cubic yards	\$0
Embankment in Place		cubic yards	\$0
Pavement Removal	4,800	square feet	\$ 2.50
Aggregate Base	109	tons	\$ 32.50
Asphalt Concrete	73	tons	\$ 56.25
Riprap		cubic yards	\$0
Guardrail, Type 2A		feet	\$0
Guardrail, Type 3	50	feet	\$ 50.00
Guardrail Trans		feet	\$0
Flared Terminals		each	\$0
Subtotal Roadway			\$32
Structures	3,150	square feet	\$ 175.00
Signals		lump sum	\$551
Illumination	\$ 200,000	lump sum	\$0
Temporary Protection	\$ 50,000	lump sum	\$200
Remove Existing Bridge	\$ 893	square feet	\$50
Other		lump sum	25
Other		lump sum	\$22
		lump sum	\$0
		lump sum	\$0
Subtotal Structures			\$824
Subtotal Construction			\$856
==Engineering==			
Construction Engineering	20	percent of construction	\$171
Contingency	20	percent of construction	\$171
Subtotal Const. Eng.			\$342
Preliminary Engineering Consultant	25	percent of construction	\$214
State	1	percent of construction	\$9
County		percent of construction	\$0
Subtotal PE			\$222
<b>Total Estimate</b>			<b>\$1,421</b>

## Bridge Project Prospectus Additional Bridge Information

Applicant: City of Portland, Office of Transportation		NBIS Bridge Number: 11086	
Project Name / Section: Johnson Creek (Portland) Bridge 11086		Region: 1	Area: 0
		District: 2B	
<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> Existing      Proposed Truck AADT: <span style="border: 1px solid black; padding: 2px;">4/5 107800</span> <span style="border: 1px solid black; padding: 2px;">7/6 197800</span>  Fire Truck Usage: <input type="checkbox"/> YES, at least 25% of trips use bridge. <input checked="" type="checkbox"/> No. Less than 25% of trips	<b>Detour</b>  Detour Route: Length: <span style="border: 1px solid black; padding: 2px;">4.8 mi</span> Map: (Please attach map)	

**Regional Freight Corridor Analysis:**

The City of Portland's Transportation System Plan (TSP) identifies this segment of SE Foster Road as a Minor Truck Street, intended to distribute truck traffic from the main freight routes to local destinations. This structure also lies on a designated City of Portland preferred Truck route has been posted (see attached COVP Truck Map)

**Special Consideration:**

This structure lies on a City of Portland Designated Emergency Route map utilized by the Portland Fire Bureau. (see attached Emergency Route Map)

## Bridge Project Prospectus

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

(Form Optional)

Applicant: City of Portland, Office of Transportation	Bridge Number: 11086		
Project Name / Section: Johnson Creek (Portland) Bridge 11086	Region: 1	Area: 0	District: 2B

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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## Bridge Project Prospectus

### Required Data For Bridges Not Listed in the National Bridge Inventory System (NBIS)

(Form Optional)

Applicant: City of Portland, Office of Transportation	Bridge Number: 11086		
Project Name / Section: Johnson Creek (Portland) Bridge 11086	Region: 1	Area: 0	District: 2B

This form must be completed for all bridges submitted that are not on the current National Bridge Inventory System (NBIS). 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.

Item 19	Detour Length	
Item 26	Functional Classification	
Item 28	A Lanes on Structure	
Item 32	Approach Roadway Width	
Item 36	Traffic Safety Features	
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 must be provided by a Certified Bridge Inspector, or a Licensed Professional Engineer. The inspector's evaluation must be included.

Item 58	Deck Condition	
Item 59	Superstructure Rating	
Item 60	Substructure Rating	
Item 62	Culverts	
Item 67	Structural Evaluation	
Item 68	Deck Geometry	
Item 69	Under-Clearance	
Item 71	Waterway Adequacy	
Item 72	Approach Flood Alignment	

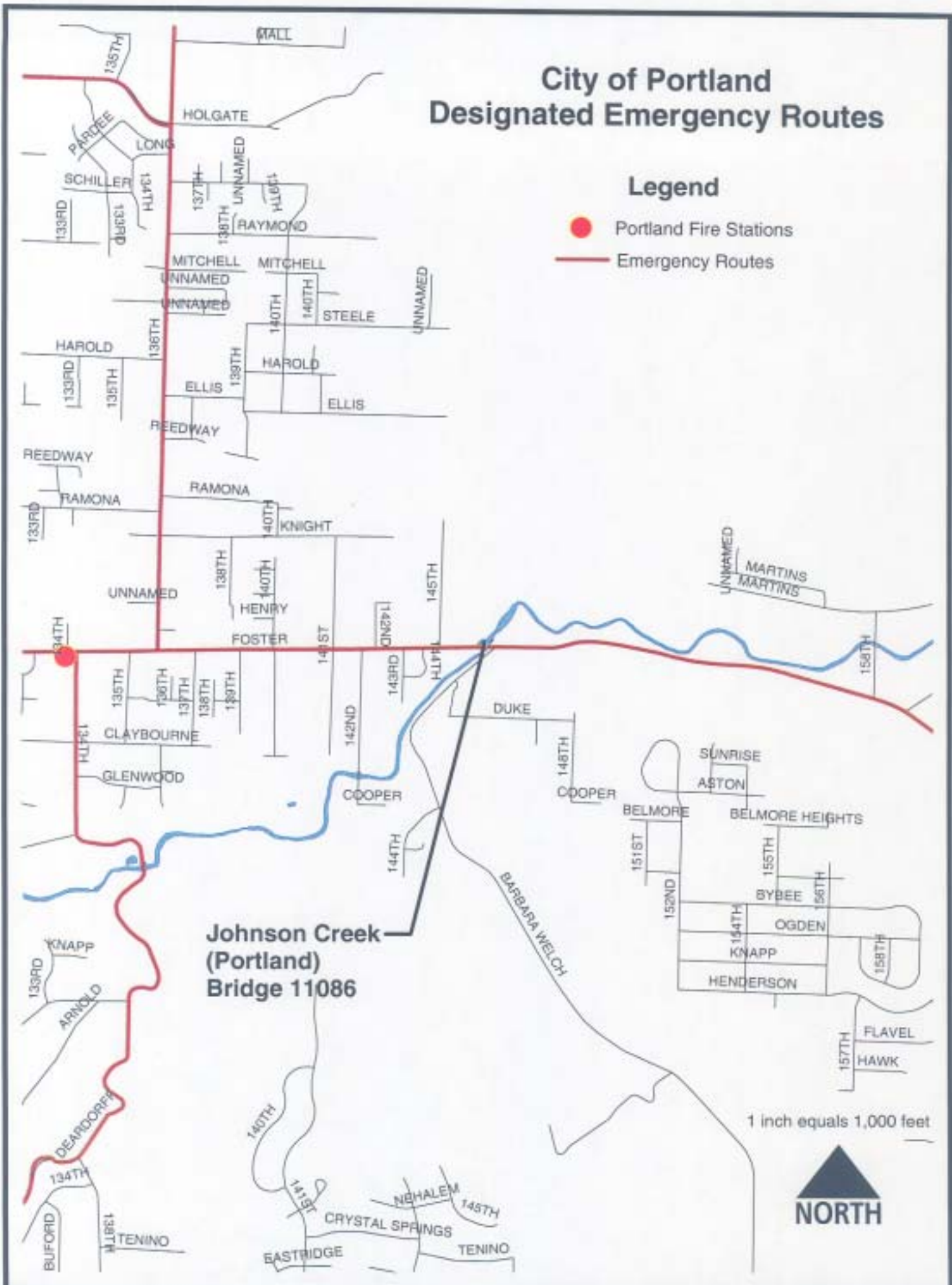
The Inventory Rating (Item 66) must be provided by a Licensed Professional Engineer, based on calculations following ODOT's Load Rating Guidelines. The engineer's calculations must be included.

Item 66	Inventory Rating	
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# City of Portland Designated Emergency Routes

## Legend

- Portland Fire Stations
- Emergency Routes



SE Foster Rd over Johnson Creek – Bridge 11086

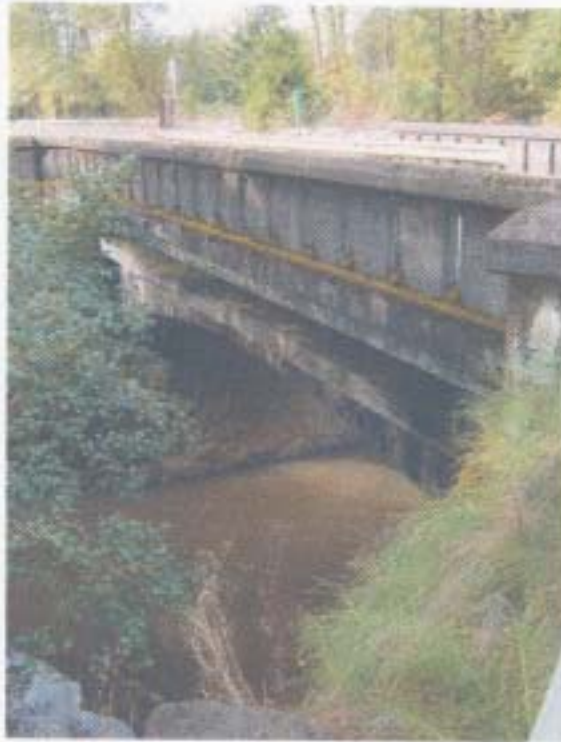


Looking East



Looking West

SE Foster Rd over Johnson Creek – Bridge 11086



South Side



North Side

# City of Portland COVP Truck Map

City of Portland Map C-51A



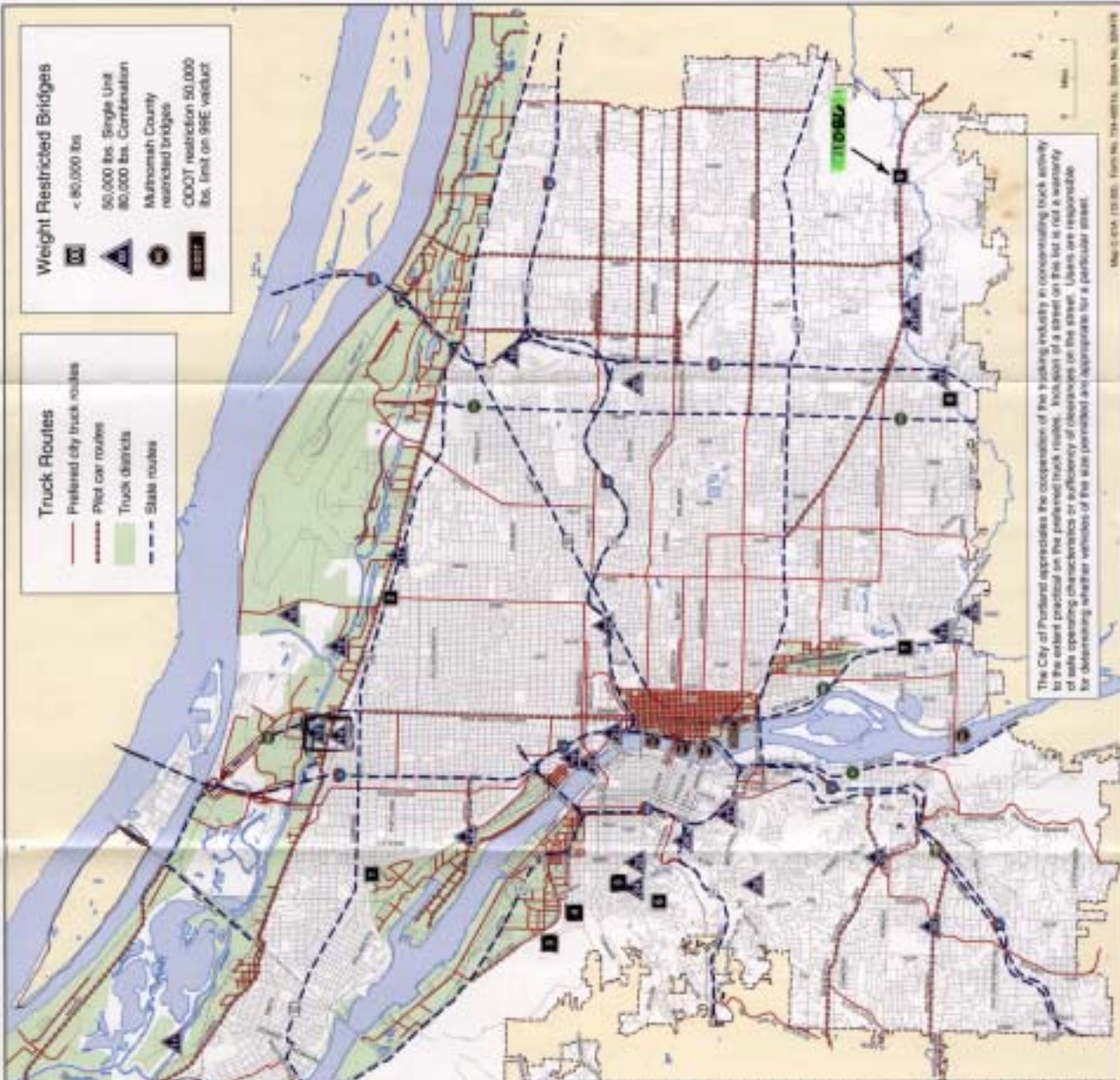
PERMIT C-51 DOES NOT  
AUTHORIZE TRAVEL ON  
STATE ROUTES OR  
COUNTY BRIDGES

**Weight Restricted Bridges**

- < 80,000 lbs
- 80,000 lbs Single Unit
- 80,000 lbs. Combination
- Multnomah County restricted bridges
- COOP restriction 50,000 lbs. limit on 95E viaduct

**Truck Routes**

- Preferred city truck routes
- Pilot car routes
- Truck districts
- State routes



The City of Portland appreciates the cooperation of the parking industry in communicating truck activity to the extent practical on the preferred truck routes. Violation of a street on this list is not a warranty of safe operating characteristics or sufficiency of clearances on the street. Users are responsible for determining whether vehicles of the size permitted are appropriate for a particular street.

Map C-51A (12-05) Form No. 734-4051a Stock No. 505478

**PILOT VEHICLE REQUIREMENTS**

Width	Designation pilot car routes indicated: combination	All other City of Portland streets
8'7" to 8'8"	None	None
8'7" to 8'8"	None	None
8'7" to 8'8"	None	None
8'7" to 8'8"	None	None
over 10'	As specified by the permit. As specified by the permit.	As specified by the permit.

Permittee is responsible for access of pilot cars.

Map	Highway	Covering	Approx. Location
Streets with Weight Limits less than 80,000 pounds			
210	Adams	Adams Street	Adams Street
211	Adams	Adams Street	Adams Street
212	Adams	Adams Street	Adams Street
213	Adams	Adams Street	Adams Street
214	Adams	Adams Street	Adams Street
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CITY OF  
**PORTLAND**  
 OFFICE OF  
**TRANSPORTATION**

Jim Francesconi, Commissioner  
 1120 S.W. 5th Avenue, Suite 800  
 Portland, Oregon 97204-1914  
 (503) 823-5185  
 FAX (503) 823-7576 or 823-7371  
 TDD 823-6868

Brant  
 Williams  
 Director

Eileen  
 Argentina  
 System  
 Management

Don  
 Gardner  
 Engineering &  
 Development

Jeanne  
 Nyquist  
 Maintenance

Richard  
 Steinbrugge  
 Finance

Laurel  
 Wentworth  
 Planning

October 14, 2003

Robert Thompson, P.E.  
 Oregon Department of Transportation  
 355 Capitol St NE  
 Salem, OR 97301-3871

**Re: "The Oregon Transportation Investment Act" (OTIA III) Bridge Project Applications**

Dear Mr. Thompson,

In response to the Oregon Department of Transportation's solicitation for OTIA III bridge projects, the City of Portland would like to submit the following five (5) applications for consideration:

- SE Foster Rd (South Half) over Johnson Creek (#11086)
- NE 33<sup>rd</sup> Ave over Columbia Slough Replacement (West Half) (#25T12A) \*\*
- NE 21<sup>st</sup> Ave over Columbia Slough (#25T08)
- N Burgard St (#08686) \*\*
- N Vancouver Ave (#01696)

All application material required may be found enclosed. We ask that those projects marked with \*\* be set aside for special consideration. If you have any questions, please contact me at (503) 823-7063.

Sincerely,

Calvin H. Lee, P.E.  
 Supervising Engineer  
 Bridges and Structures Section  
 Bureau of Transportation Engineering and Development

c: L. David Hill, Acting City Engineer - no attachments

**RECEIVED**  
 OCT 14 2003  
**BRIDGE SECTION**