



PROJECT PROSPECTUS

Part 1 — Project Request (Page 1 of 2)

Key Number: _____ Jurisdiction: _____

Section: **Calapooia River (Tangent Road) Br #12240** Region: **2** Area: **4** District: **4**

State Highway No.: _____ Highway Name: _____ Mile Point From: **2.03** To: **2.14** Length: (mi) **0.11** (km) _____

Urban City: _____ MPO: _____ Within Yes County: _____ Road/Street Name: _____
 Rural No UGB No **Linn** **Tangent Road**

Route No.: _____ NHS: YES NO HPMS: _____ FC: _____ Applicant (If other than State): **Linn County**

US Congressional District: _____ State Senate District: _____ State Representative District: _____

Cost Estimates (x \$ 1,000)		Project Components		Right Of Way	
Preliminary Engineering	\$138	Grading	X	Files (#)	4
Right Of Way	\$20	Paving	X	Hectares (#)	1
Utility Reimbursement		Structures	X	Relocations (#)	0
		Signing		Acquisitions (#)	4
Roadway	\$132	Signals		Easements (#)	
Structures	\$396	Illumination		Work By: State / Consultant / Applicant	
Signals	\$0			Preliminary Engineering (S,C,A)	C
Illumination	\$0			Construction Engineering (S,C,A)	C
Temp. Protection	\$14			Right of Way Descriptions (S,C,A)	C
Const. Contingencies	\$164			Right Of Way Acquisitions (S,C,A)	C
Const. Engineering	\$99	Project Categories		Constructed By	
Remove Exist Bridge	\$39	Environmental Class (1, 2, 3, PCE)		<input checked="" type="checkbox"/> Contract	<input type="checkbox"/> County Force
Other	\$77	Design Category (1-7)		<input type="checkbox"/> State Force	<input type="checkbox"/> Other
Total CE and Construction:	\$920	Work Type Code (1-13)		<input type="checkbox"/> City Force	
Total Estimate:	\$ 1,078	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 Tangent Road Bridge is functionally obsolete due to a bridge roadway width of 20'. The Calapooia River is a high drift & debris river causing the county to remove drift after each flood event. Signs of scour are present at the end bents with exposed timber piling on the west end.
Structures (#)	1	1	
Signals (#)	0	0	
Bike Way (#)	0	0	
Average Daily Traffic	639	1054	
Year of ADT	2003	2025	
Throughway Y/N	Y	Y	
			Describe Proposed Solution: - Attach Sketch Map
			Construct a +/-130' single-span precast prestressed Bulb-T girder bridge on the same alignment.

Prepared By: **X** Date: _____ OTC Approval Date: _____ Program Year: _____ Funding Amount: _____



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Part 1 Project Request (Page 2 of 2)

Key Number:

Jurisdiction:

Section: Calapooia River (Tangent Road) Br #12240

Region:
2

Area:
4

District:
4

Project Justification

This bridge has an SR rating of 62 with an inventory load rating of only 54,000 pounds. It has been given the worst stress crack rating of Stage-3. Futhermore it requires continuous debris maintenance.

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 LINN _____ County

By: _____

By: Darrin Lane, Roadmaster

By: _____

By: _____

By: _____

Applicable Intergovernmental Agreements:

IGA Number:

Jurisdiction Name:

Agreement Date:

Administrative Recommendation

Bridge Prospectus Cost Estimate

		NBIS		
		Bridge No.		
Applicant:	Linn County	12240		
Project /	Calapooia River (Tangent Road)	Region:	Area:	District:
Section	Br #12240	2	4	4
<u>New Bridge / Roadway Configuration:</u>		<u>Existing Bridge:</u>		
Left Side Rail	1.5 feet	Bridge Length	120 feet	
Left Sidewalk	feet	Bridge Width	25 feet	
Shoulder	5 feet	Area	3000 square ft.	
Lane 2	11 feet			
Lane 1	feet	New AC Top Width	35 feet	
--CL--	0 feet	New AC Depth	4 inches	
Lane 1	0 feet	New Base Depth	12 inches	
Lane 2	11 feet	Project Length	830 feet	
Shoulder	5 feet	Net Road Work Length	700 feet	
Right Sidewalk	0 feet	X-Sect Side Slope	3 :1	
Right Side Rail	1.5 feet	AC Avg Width	36 feet	
		Base Avg Width	40 feet	
Bridge Length	130 feet	Asphalt Density	150 pounds/ cu ft	
Bridge Width	35 feet	Base Density	120 pounds/ cu ft	
New Area	4550 square ft.	New AC Received	630 tons	
		New Base Required	1680 tons	
COST ESTIMATE:				
	Quantity	Unit	Price per unit	Cost (\$x1000s)
Right-of-Way	1	Acre	\$ 20,000	\$20
==Roadway==				
Clear & Grub	\$ 11,333	lump sum		\$11
General Excavation		cubic yards	\$ 12.00	\$0
Embankment in Place	2,730	cubic yards	\$ 12.00	\$33
Pavement Removal		square feet	\$ 0.45	\$0
Aggregate Base	1,680	tons	\$ 16.00	\$27
Asphalt Concrete	630	tons	\$ 56.00	\$35
Riprap	193	cubic yards	\$ 50.00	\$10
Guardrail, Type 2A	125	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	\$132
Structures	4,550	square feet	\$ 87.00	\$396
Signals	\$ -	lump sum		\$0
Illumination	\$ -	lump sum		\$0
Temporary Protection	\$ 13,500	lump sum		\$14
Remove Existing Bridge	3,000	square feet	\$ 13.00	\$39
Mobilization	\$ 65,700	lump sum		\$66
Erosion Ctrl / Restortation	\$ 11,100	lump sum		\$11
Detour Bridge		square feet	\$ 25.00	\$0
			Subtotal Structures	\$525
			Subtotal Construction	\$657
==Engineering==				
Construction Engineering	15	percent of construction		\$99
Contingency	25	percent of construction		\$164
			Subtotal Const. Eng.	\$263
Preliminary Engineering				
Consultant	18	percent of construction		\$118
State	1	percent of construction		\$7
County	2	percent of construction		\$13
			Subtotal PE	\$138
Total Estimate				\$1,078

Bridge Project Prospectus Additional Bridge Information

Applicant: Linn County		NBIS Bridge Number: 12240		
Project Name / Section: Calapooia River (Tangent Road) Br #12240		Region: 2	Area: 4	District: 4
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 Existing Proposed Truck AADT: <input style="width: 50px;" type="text"/> <input style="width: 50px;" type="text"/> Fire Truck Usage: <input type="checkbox"/> YES, at least 25% of trips use bridge. <input checked="" type="checkbox"/> NO. Less than 25% of trips	Detour Detour Route: Length: <input style="width: 50px;" type="text"/> 6.2-mi. one way Map: (Please attach map)		
Regional Freight Corridor Analysis:				
Tangent road provides a vital link for farming between HWY99 and HWY34. Grass seed and other farming goods are routed to these state highways where they are distributed to warehouse distribution centers.				
Special Consideration:				
Tangent Road is a possible emergency detour for Highway 34.				

Bridge Project Prospectus

Requested Changes to National Bridge Inventory System (NBIS) Data

(Form Optional)

Applicant: Linn County	Bridge Number: 12240
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Project Name / Section: Calapooia River (Tangent Road) Br #12240	Region: 2	Area: 4	District: 4
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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: Linn County	Bridge Number: 12240		
Project Name / Section: Calapooia River (Tangent Road) Br #12240	Region: 2	Area: 4	District: 4

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 56, 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 Road 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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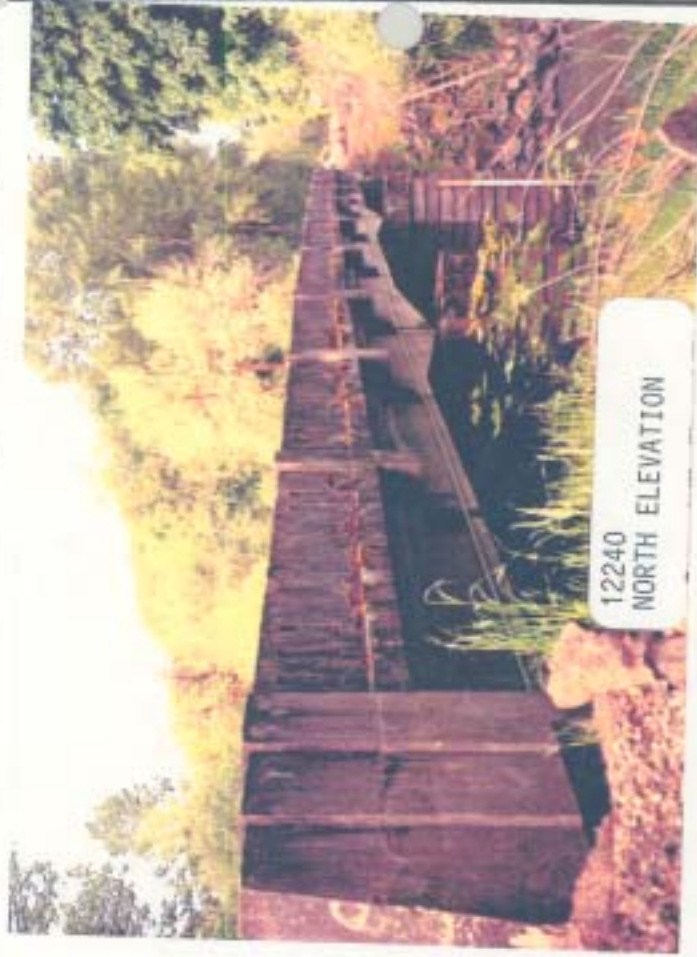


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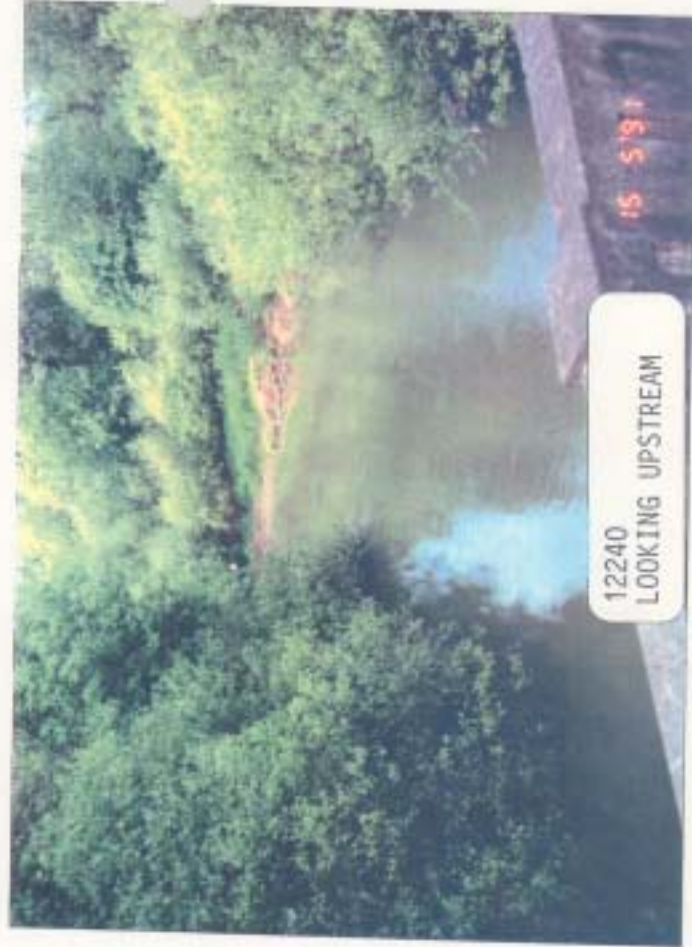
12240
EAST APPROACH



12240
NORTH ELEVATION



12240
DRIFT @ BENT 2



12240
LOOKING UPSTREAM



Bridge Name: Tangent Dr. Br. #3
Bridge No.: 12240
County: Linn
Date: December 9, 1997

Looking ahead west.



Looking ahead along left side
upstream.



Bents 2 and 3 damaged fender
boards.







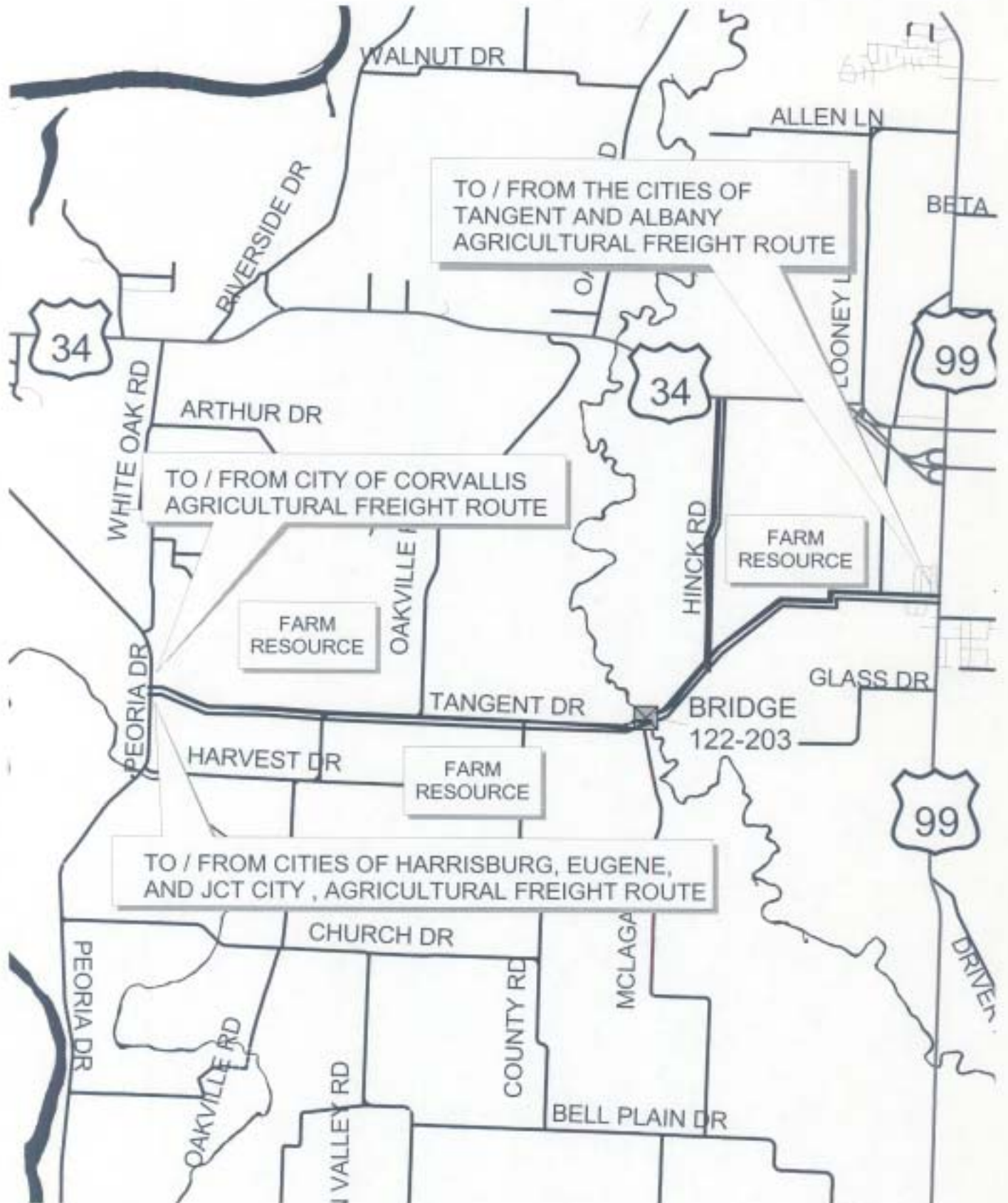








TANGENT DRIVE - FREIGHT CORRIDOR BRIDGE 122-203 ODOT 12240



TANGENT DRIVE DETOUR ROUTE

DETOUR IS 6.2 MILES, ONE WAY

