



PROJECT PROSPECTUS

Part 1 — Project Request (Page 1 of 2)

										Key Number:		Jurisdiction:			
Section: Ross Road Bridge No. 13706										Region: 1		Area:		District: 2A	
State Highway No.:		Highway Name:				Mile Point:				Length: (mi) (km)					
						From: _____ To: _____									
<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural		City:		MPO:		Within UGB <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		County: Columbia		Road/Street Name: Ross Road (County Bridge No. 29)					
Route No.:		NHS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HPMS:		FC: RMaC		Applicant (if other than State): Columbia County Road Department							
US Congressional District: First				State Senate District: First				State Representative District: First							
Cost Estimates (x \$ 1,000)				Project Components				Right Of Way							
Preliminary Engineering		\$50		Grading		<input checked="" type="checkbox"/> Yes		Files		(#) 4					
Right Of Way		\$20		Paving		<input checked="" type="checkbox"/> Yes		Hectares		(#) 1					
Utility Reimbursement		No		Structures		<input checked="" type="checkbox"/> Yes		Relocations		(#) 0					
				Signing		<input type="checkbox"/> No		Acquisitions		(#) 4					
Roadway		\$42		Signals		<input type="checkbox"/> No		Easements		(#) 0					
Structures		\$115		Illumination		<input type="checkbox"/> No		Work By: State / Consultant / Applicant							
Signals		\$0						Preliminary Engineering (S,C,A)		Consultant					
Illumination		\$0						Construction Engineering (S,C,A)		Consultant					
Temp. Protection		\$4						Right of Way Descriptions (S,C,A)		Consultant					
Const. Contingencies		\$46						Right Of Way Acquisitions (S,C,A)		Consultant					
Const. Engineering		\$28		Project Categories				Constructed By							
Remove Exist Bridge		\$3		Environmental Class (1, 2, 3, PCE)		2		<input checked="" type="checkbox"/> Contract		<input type="checkbox"/> County Force					
Other		\$21		Design Category (1-7)		7		<input type="checkbox"/> State Force		<input type="checkbox"/> Other					
Total CE and Construction:		\$259		Work Type Code (1-13)		5		<input type="checkbox"/> City Force							
Total Estimate:		\$ 328		Primary STIP Work Type:		5									
Recommended Let Date By Federal Fiscal Year (Quarter-Year):						1st-2006									
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	<p>Ross Rd is classified as a Rural Major Collector. The bridge is posted for 5 tons only. This bridge needs to be upgraded to allow trucks, school buses, and fire response vehicles to cross. Many of the structural members are failing and replacement is the only viable solution.</p>											
Structures (#)		1	1												
Signals (#)		0	0												
Bike Way (#)		0	0												
Average Daily Traffic		2000													
Year of ADT		2003		<p>Describe Proposed Solution: - Attach Sketch Map</p> <p>Construct a new single span precast prestressed concrete slab bridge on the same alignment and grade.</p>											
Throughway Y/N		Yes													
Prepared By:		Date:		OTC Approval Date:		Program Year:		Funding Amount:							
X <i>Aaron Chodler</i>		10/15/03													



PROJECT PROSPECTUS

Part 1 Project Request (Page 2 of 2)

Key Number:

Jurisdiction:

Section:

Ross Road Bridge No. 13706

Region:

1

Area:

0

District:

2A

Project Justification

Ross Road is classified as a rural major collector and receives a lot of traffic as it is just outside the city limits of St. Helens. The bridge is in very bad shape and replacement is the only option.

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 Columbia

County

By:

By:

Dave Hill, Public Works Director

By:

By:

By:

Applicable Intergovernmental Agreements:

IGA Number:

Jurisdiction Name:

Agreement Date:

Administrative Recommendation

Bridge Prospectus Cost Estimate

		NBIS	
		Bridge No.	
Applicant:	Columbia County Road Depart	09C22	
Project /		Region:	Area:
Section	Ross Road Bridge No. 13706	1	0
			District: 2A
New Bridge / Roadway Configuration:		Existing Bridge:	
Left Side Rail	1.5 feet	Bridge Length	18 feet
Left Sidewalk	0 feet	Bridge Width	23 feet
Shoulder	3 feet	Area	414 square ft.
Lane 2	0 feet		
Lane 1	12 feet	New AC Top Width	33 feet
—CL—	0 feet	New AC Depth	4 inches
Lane 1	12 feet	New Base Depth	12 inches
Lane 2	0 feet	Project Length	140 feet
Shoulder	3 feet	Net Road Work Length	100 feet
Right Sidewalk	0 feet	X-S Side Slope	3:01
Right Side Rail	1.5 feet	AC Avg Width	34 feet
		Base Avg Width	36 feet
Bridge Length	40 feet	Asphalt Density	150 pounds/ cu ft
Bridge Width	33 feet	Base Density	120 pounds/ cu ft
New Area	1320 square ft.	New AC Received	85 tons
		New Base Required	216 tons
COST ESTIMATE:			
	Quantity	Unit	Price per unit
Right-of-Way	1	Acre	\$ 20,000
	==Roadway==		Cost (\$x1000s)
Clear & Grub	\$ 3,133	lump sum	\$3
General Excavation	-	cubic yards	\$ 12.00
Embankment in Place	450	cubic yards	\$ 12.00
Pavement Removal	-	square feet	\$ 0.45
Aggregate Base	216	tons	\$ 16.00
Asphalt Concrete	85	tons	\$ 56.00
Riprap	187	cubic yards	\$ 50.00
Guardrail, Type 2A	100	feet	\$ 11.50
Guardrail, Type 3	50	feet	\$ 38.00
Guardrail Trans	4	feet	\$ 1,600.00
Flared Terminals	4	each	\$ 1,600.00
			Subtotal Roadway
			\$42
Structures	1,320	square feet	\$ 87.00
Signals	\$ -	lump sum	\$115
Illumination	\$ -	lump sum	\$0
Temporary Protection	\$ 3,919	lump sum	\$0
Remove Existing Bridge	\$ 414	square feet	\$4
Staged Construction	\$ -	lump sum	\$3
Mob & Erosion Ctrl	20,971	lump sum	\$0
			Subtotal Structures
			\$21
			Subtotal Construction
			\$185
	==Engineering==		
Construction Engineering	15	percent of construction	\$28
Contingency	25	percent of construction	\$46
			Subtotal Const. Eng.
			\$74
Preliminary Engineering			
Consultant	25	percent of construction	\$46
State	-	percent of construction	\$0
County	2	percent of construction	\$4
			Subtotal PE
			\$50
			Total Estimate
			\$328

Bridge Project Prospectus Additional Bridge Information

Applicant: Columbia County Road Department		NBIS Bridge Number: 09C22	
Project Name / Ross Road Bridge No. 13705 Section:		Region: 1	Area: 0
		District: 2A	
<p style="text-align: center;">Funding</p> <p>Preferred Source:</p> <p><input checked="" type="checkbox"/> OTIA III</p> <p><input type="checkbox"/> Federal HBRR</p> <p>Acceptable Source:</p> <p><input checked="" type="checkbox"/> OTIA III</p> <p><input type="checkbox"/> Federal HBRR</p>	<p style="text-align: center;">Heavy Vehicle Usage</p> <p style="text-align: center;">Existing Proposed</p> <p>Truck AADT: <input type="text" value="0"/> <input type="text" value="10"/></p> <p>Fire Truck Usage:</p> <p><input type="checkbox"/> YES, at least 25% of trips use bridge.</p> <p><input checked="" type="checkbox"/> No. Less than 25% of trips</p>	<p style="text-align: center;">Detour</p> <p>Detour Route:</p> <p>Length: <input type="text" value="2"/></p> <p>Map: (Please attach map)</p>	
Regional Freight Corridor Analysis:			
Special Consideration:			
This route has been identified in the Columbia County TSP as a West Side Arterial for the City of St. Helens. This bridge needs to be replaced before this can happen. This area of St. Helens is receiving the highest residential growth in the county and ADTs will continue to rise as traffic uses this route to bypass the stop lights in St. Helens.			

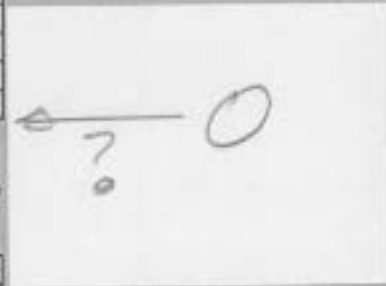
Bridge Project Prospectus

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

Applicant: Columbia County Road Department	Bridge Number: 09C22		
Project Name / Section: Ross Road Bridge No. 13706	Region: 1	Area: 0	District: 2A

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	02
Item 26	Functional Classification	07
Item 28	A Lanes on Structure	0200
Item 32	Approach Roadway Width	021
Item 36	Traffic Safety Features	0000
Item 43	Structure Type, Main	702
Item 51	Bridge Roadway Width	0229
Item 53	Vertical Clearance over Deck	9999
Item 54	Underclearance	N0000
Item 55	Minimum Left	N0000
Item 56	Minimum Right	N0000
Item 100	Defense Highway Designation	1



Items 58, 59, 60, 62, 67, 68, 69, 71 and 72 must be provided by a Certified Bridge Engineer. The inspector's evaluation must be included.

Item 58	Deck Condition	7
Item 59	Superstructure Rating	7
Item 60	Substructure Rating	3
Item 62	Culverts	N
Item 67	Structural Evaluation	2
Item 68	Deck Geometry	4
Item 69	Under-Clearance	N
Item 71	Waterway Adequacy	8
Item 72	Approach Road Alignment	8

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	205
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OBEC CONSULTING ENGINEERS
EUGENE, OREGON
BRIDGE INSPECTION REPORT

BRIDGE NO. 13706
Co. # 029

BRIDGE TYPE Timber NAME Ross Road Br. (STATE, FAS, FAU, OS) HWY NO. C#1137
CROSSING (OVER, UNDER) McNulty Creek COUNTY Columbia INSP. FREQ. 6 mo MILE POST 0.10
DISTRICT D2A YEAR BUILT 1958 DATE 4/20/03 A.C. (in.) 5" INSPECTORS Gary R. Gullion

AR = As Repaired
OM = Original Member

SUBSTRUCTURE (60)		Condition Rating		OBSERVATIONS	Condition Rating		DECK (58)		Condition Rating		
		AR	OM		AR	OM					
1. END BENTS T.T.	Caps		3	1. Stringers T.T.		7	1. Deck - Structural Condition T.T.		7		
	Piles		3		2. Girder or Beams				2. Wearing Surface ACWS		6
	Footings					3. Floor beams					3. Deck Joints
	Footing Piles			4. TRUSSES				4. Deck Felloe Guards T.T.		6	
	Backwalls, Bulkheads		5		Chords				5. Sidewalks		
	Wings				Web Members				6. Parapet, Concrete Barrier		
2. INTERIOR PIERS OR BENTS	Caps			Portals			7. Railing Posts T.T.		5		
	Columns, Posts			Bracing			8. Median Barrier, Railing				
	Footings			5. Diaphragms, Bridging T.T.		7	9. Paint on Rail		6		
	Footing Piles			6. Bearing Devices			10. Drains				
	Piles			7. Paint			11. Lighting Standards				
	Bracing			8. Rivets or Bolts			12. Utilities				
3. Debris on Seats			9. Welds			13. Vibrations in Deck					
4. Paint			10. Collision Damage		B	INSPECTOR'S CONDITION RATING (58)					
5. Collision Damage			11. Deflection under Load			APPROACH ALIGNMENT (65)					
6. Scour			12. Alignment of Members		6	1. Pavement & Embankment					
7. Settlement (Footing or Piling)			13. Vibrations under Load			2. Shoulder Embankment					
INSPECTOR'S CONDITION RATING (60)			14. Machinery (Movable Spans)			3. Relief Joints					
CHANNEL & CHAN. PROTECT. (61)			INSPECTOR'S CONDITION RATING (59)			4. Approach Slab					
1. Channel Scour			CULVERTS & RETAIN. WALLS (62)			5. Guardrail					
2. Embankment Erosion			1. Barrel or Wall	Concrete		INSPECTOR'S CONDITION RATING (65)					
3. Drift				Steel		SAFETY FEATURES (36)					
4. Vegetation			Timber		APPR. ALINE. (72)						
5. Channel Change			2. Headwall & Parapet		SIGNING						
6. Fender System			3. Aprons		1. Posted Loading 5 Ton						
7. Spur Dikes & Jetties			4. Wingwalls		2. Legibility						
8. Riprap Strap!			5. Adequacy		3. Visibility						
9. Adequacy of Opening			6. Debris		4 R Boards						
INSPECTOR'S CONDITION RATING (61)			INSPECTOR'S CONDITION RATING (62)			INSPECTOR'S CONDITION RATING					

REMARKS (Key-in to item and number above)

REVIEW LOAD RATING

SB-1: Ends of deck are wet & soft. Underneath dry & green.
 SB-2: AC not full to fallow but bridge wider than main. AC cracked along
 2 & 4 bents & abutment cracked on spar. Saw dirt in gutter.
 SB-7: Rail is too high. Post #1 on lt side is rotten. No paint on rail.
 60-1: Bent #1 cap is totally rotten w/ bulging, crack, & rotting & splitting & fungus.
 Bent #2 cap is good but rotting at base all the piling.
 Backwall is rotten in spots & ends are rotting. Several pile
 split @ drift pins & pile all rotting w/ soft cap bearings. Piles
 in B4 #1 & #2 in B4 #2 are very rotten.
 61-2: Erosion @ all 4 corners & riprap is very strap. Erosion out to back of
 backwall & high water mark @ both of caps.
 61-4: Blackberry & Ivy have taken over benches & slides of main.
 63: Slides are narrow, rounded off, & heavily overgrown.
 Rt. side shoulder erosion to edge AC.

Gary R. Gullion
SIGNATURE

22-6 & 22-3'



Date 4/30/03

Inspectors Gary Gilliam

Bridge Name Rail Rd. Br.

County Columbia

Bridge No. Co. # 029 13706

Road No. C# 1137

MAINTENANCE RECOMMENDATIONS

DECK (58) Clean the gutters & pave full width RATING 7

Replace and paint the rail. Upgrade rail and set to legal height.

SUPERSTRUCTURE (59) Nothing 7

SUBSTRUCTURE (60) 3

Replace 5 out of 11 caps.
Replace 3 rotten pile. Band other split pile.
Strut the caps & pile.

CHANNEL (61) 6

Cut & control brush, grass, & blackberry.
Widen approach and shoulders.

APPROACH CONDITION (65) 4

Widen the approach and shoulders.
Add approach guardrails

GENERAL CONDITION 3

FOLLOW UP INSPECTIONS

Consider replacing this structure

Gary R. Gilliam
Signature

Bridge Name: Ross Rd. Br.
Bridge No.: 029 (St. #13706A)
Owner: Columbia County
Date: April 30, 2003



Looking ahead north.



Looking ahead along left side.



#29

Oregon Department of Transportation Technical Services Branch

Bridge Engineering Section
Local Agency Bridge Load Rating

5 tons

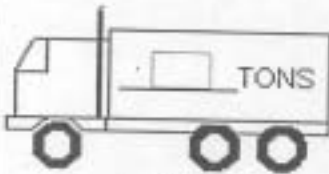
Local Agency: Columbia County

NBIS Bridge Number: 13706

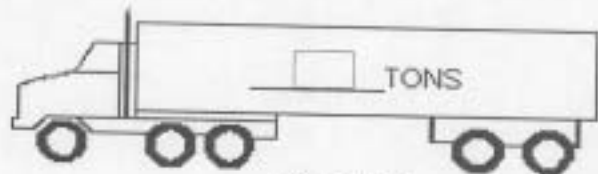
Date: 01/31/97

Truck	Inventory	Operating	Posting Required
HS Equivalent	HS 11.2	HS 16.0	N/A
HS 20 (35 Ton)	20.2 Tons	28.8 Tons	N/A
Type 3 (25 Ton)	16.3 Tons	23.3 Tons	YES
Type 3S2 (40 Ton)	25.2 Tons	36.4 Tons	YES
Type 3-3 (40 Ton)	27.2 Tons	38.8 Tons	YES
Permit 5 (60.25 Ton)	Tons	Tons	N/A
Permit 6 (75.25 Ton)	Tons	Tons	N/A
Permit 7 (92.5 Ton)	Tons	Tons	N/A

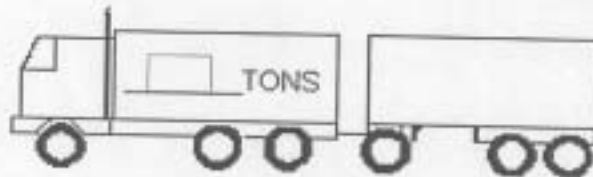
OREGON LEGAL LOADS RECOMMENDED POSTING



TYPE 3



TYPE 3S2



TYPE 3-3

COMMENTS:
**POST AT 5 TON UNTIL SUBSTRUCTURE IS
REPAIRED**



Expiration Date 6/30/97

Ross Rd 13706



MVC-414F.JPG



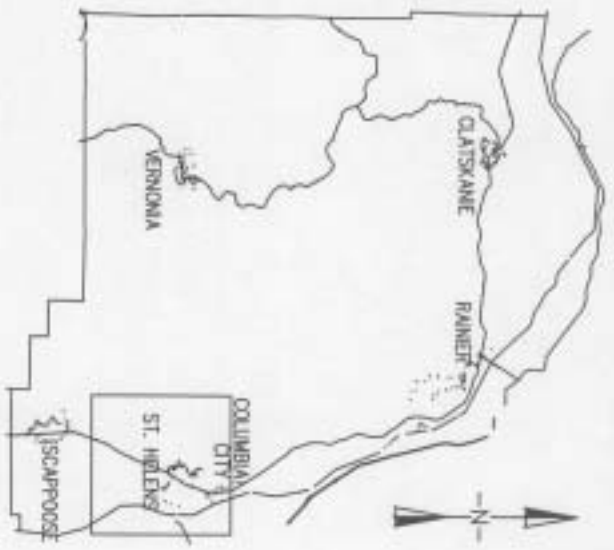
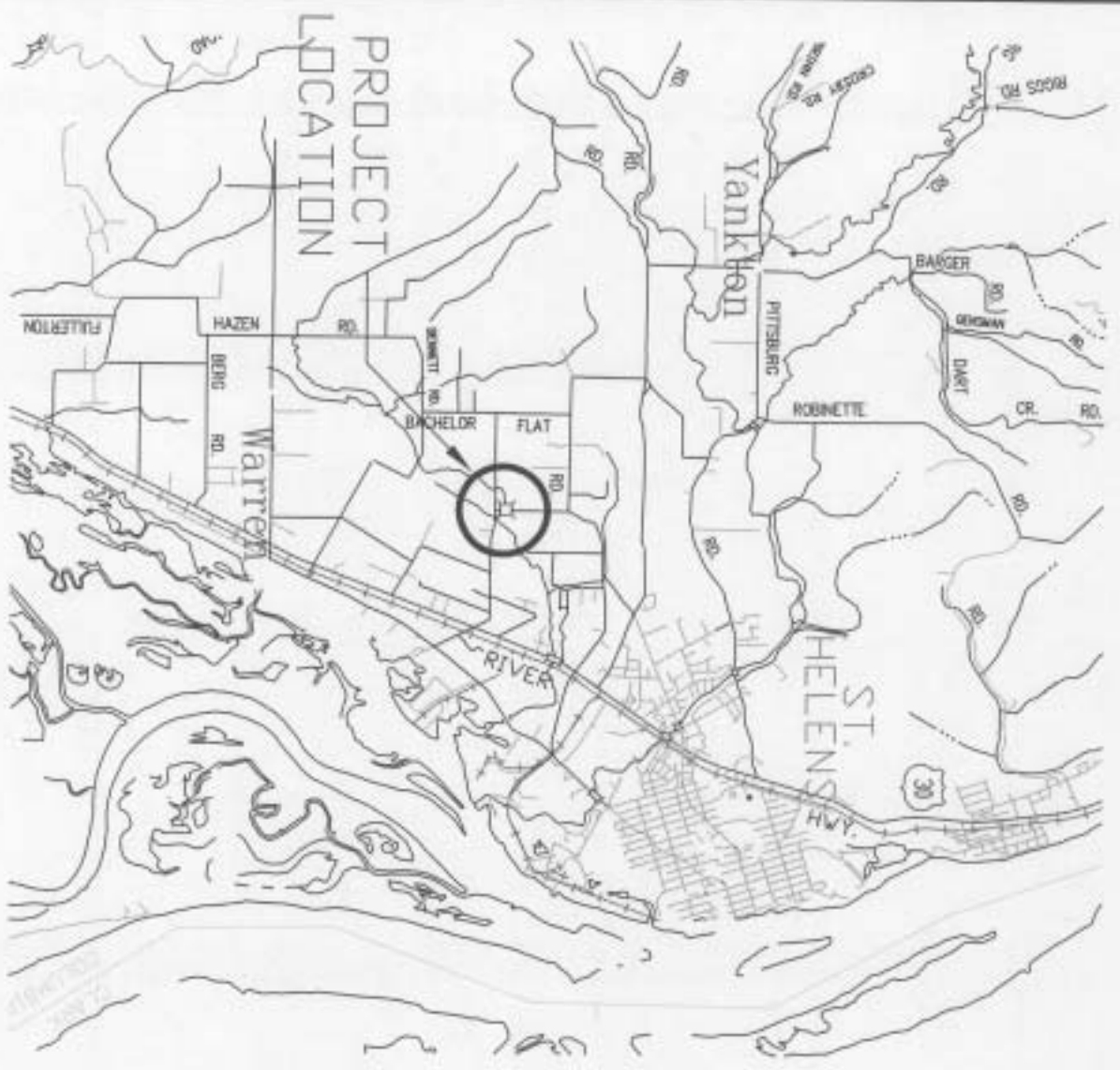
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MVC-416F.JPG



MVC-417F.JPG



DETOUR LENGTH: 2 MILES
 FREIGHT ROUTE: ROSS RD TO MILLARD RD TO HWY 30.

DATE: SEP 24, 2003
 DRAWN BY: A. CLDDFELTER
 CHECKED BY: A. CLDDFELTER



LOCATION MAP
 BRIDGE 13706
 SHEET: 1/1