



PROJECT PROSPECTUS

PART 1 — PROJECT REQUEST (PAGE 1 OF 2)

New _____ Update _____

Project Leader Bill Fedorko

Date Prepared 4/15/02

KEY ID # _____

SECTION Mill Creek (State Street) Bridge No. 470238		REGION 2	MAINTENANCE DISTRICT 3
STATE HIGHWAY # N/A	HIGHWAY NAME State Street	MILE POST FR. _____ TO _____	LENGTH (km) 0.02
<input checked="" type="checkbox"/> URBAN <input type="checkbox"/> RURAL	CITY Salem	COUNTY Marion	ROAD/STREET NAME State Street
ROUTE # _____	NHS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HPMS 3	FC 16
US CONGRESSIONAL DISTRICT 1		STATE SENATE DISTRICT 16	
STATE REPRESENTATIVE DISTRICT 32			
APPLICANT (IF OTHER THAN STATE) City of Salem			
COST ESTIMATES (000'S)		PROJECT DATA	
RIGHT OF WAY			
PRELIMINARY ENGINEERING	\$ 250	GRADING	<input checked="" type="checkbox"/> FILES (#)
RIGHT OF WAY	\$ 0	PAVING	<input checked="" type="checkbox"/> HECTARES (#)
ROADWAY	\$ 281	STRUCTURES	<input checked="" type="checkbox"/> RELOCATIONS (#)
STRUCTURES	\$ 645	SIGNING	<input checked="" type="checkbox"/>
SIGNALS	\$	SIGNALS	
ILLUMINATION	\$	ILLUMINATION	
TEMPORARY PROTECTION	\$ 53		
MOBILIZATION	\$ 96	ENVIRONMENTAL CLASS (1,2,3)	2
ENGINEERING & CONTINGENCIES	\$ 422	DESIGN CATEGORY (1-7)	7
TOTAL CONSTRUCTION	\$ 1477	WORK TYPE (1-13)	V
TOTAL ESTIMATE	\$ 1727	Preserv. % Modernization % Safety % Operat. % Bridge %	
RECOMMENDED START YEAR BY FEDERAL FISCAL YEAR:	R/W:	PE: CON: RECOMMENDED (PE) 2006	FUND SOURCE: HBRR
		(R/W) HBRR	(CONST) HBRR

RECOMMENDED PROGRAM REVISIONS

<input type="checkbox"/> POSTPONE	SECTION	FUNDS	CUR. YR.	ESTM. (000's)
<input type="checkbox"/> CANCEL				\$
<input type="checkbox"/> POSTPONE	SECTION	FUNDS	CUR. YR.	ESTM. (000's)
<input type="checkbox"/> CANCEL				\$

ITEM	EXISTING	PROPOSED	DEFINE THE PROBLEM
TRAVEL LANES (#)	4	5	Existing bridge is functionally obsolete due to its width compared to the ADT. Waterway is inadequate at maximum flood and has overtopped in the past. There is some bank scour and undermining of wingwalls. The foundation type and depth is unknown. Otherwise the bridge is in relatively good condition. Bridge was built in 1929 = potential historic resource. The bridge was designed for H15 loads, but has been load rated and determined to have adequate capacity to carry legal loads. The Sufficiency Rating is 76.6.
STRUCTURES (#)	1	1	
BIKE WAY (Y/N)	N	Y	
AVERAGE DAILY TRAFFIC	36,750	50,000	PROPOSED SOLUTION ATTACH SKETCH MAP Replace the bridge with a larger waterway opening and match the 5 lane section to the east for width and lane configuration. Provide 6' shoulder/bike lanes and 6' sidewalks. The City has indicated they would take responsibility for the cost of right of way.
YEAR OF AVERAGE DAILY TRAFFIC	2000	2020	
THROUGHWAY (#)			

REQUESTED, REGION ENGINEER X	DATE	TRANSP. COMM. APPROVAL DATE	PROGRAM YR	FUNDING
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PROJECT PROSPECTUS
PART 1 — PROJECT REQUEST (PAGE 2 OF 2)

KEY ID # _____

SECTION

Mill Creek (State Street) Bridge No. 47023B

REGION

2

PROJECT JUSTIFICATION

Existing bridge is functionally obsolete due to its width compared to the ADT. Waterway is inadequate at maximum flood and has overtopped in the past. There is some bank scour and undermining of wingwalls. The foundation type and depth is unknown. Otherwise the bridge is in relatively good condition. Bridge was built in 1929 = potential historic resource. The bridge was designed for H15 loads, but has been load rated and determined to have adequate capacity to carry legal loads. The Sufficiency Rating is 76.6. The roadway should be widened to accommodate the ADT, pedestrians and bikes. Replacement of the existing bridge appears to be a better option than widening, in order to increase the waterway opening and prevent future scour issues.

ADDITIONAL INFORMATION FOR PROJECTS REQUESTED BY LOCAL JURISDICTIONS

RESPONSIBLE LOCAL OFFICE TO BE CONTACTED FOR THE FOLLOWING ACTIVITIES:

- | | | | | |
|--|------------------------------------|-----------------|---------------------|----------------|
| 1. Public Hearing /
Citizen Involvement | <u>Bill Fedorko, City of Salem</u> | (Office) | <u>503-588-6211</u> | (Phone) |
| 2. Environmental / Planning | <u>Bill Fedorko, City of Salem</u> | (Office) | <u>503-588-6211</u> | (Phone) |
| 3. Pre-Engineering | <u>Bill Fedorko, City of Salem</u> | (Office) | <u>503-588-6211</u> | (Phone) |

THIS OFFICIAL REQUEST IS FROM:

The City of _____ and/or _____ County

By _____ By _____

By _____ By _____

By _____

ADMINISTRATION RECOMMENDATION



PROJECT PROSPECTUS

PART 2 — PROJECT DETAILS

NOTE: ATTACH DESCRIPTION AND SKETCH MAP

KEY ID #

SECTION	REGION
Mill Creek (State Street) Bridge No. 470238	2

ENTER: S - STATE C - CONSULTANT A - APPLICANT
E - EXISTING N - NO

PERMITS AND DOCUMENTS

STATE CLEARING HOUSE	N	SIGNS (PERMANENT)	A	STORM SEWER	C	AIRPORT CLEARANCE	N	WETLANDS	N
CITIZEN'S ADVISORY COMM.	N	STRIPING (PERMANENT)	C	LANDSCAPING	N	LAND USE ACTIONS AND PERMITS	C	ENDANGERED SPECIES	C
PHOTOGRAMMETRY RECONNAISSANCE SURVEY	N	PROJECT SIGNING	C	IRRIGATION	N	FLOOD PLAN	C	HAZMAT	C
PUBLIC HEARING	N	DETOUR	C	BORROW SOURCE	N	BUILDING	N	HISTORIC RESOURCE	C
FIELD SURVEY	C	ILLUMINATION	N	MATERIALS SOURCE	N	CORPS OF ENGRS. / DSL REMOVAL / FILL	C	AIR CONFORMITY STUDY	N
VICINITY MAP	C	RR CROSSING	N	DISPOSAL SITE	N	COAST GUARD	N	DEQ NON-POINT SOURCE WATER	N
SOILS/GEOTECH INVESTIGATION	C	RR PROTECTION	N	LOCAL AGREEMENT	S	GEOLOGY AND MINERALS	N	ARCHAEOLOGICAL SURVEY	N
HYDRAULIC STUDY	C	RR SEPARATION	N	SENSITIVE LAND	N	SIGNALS	N	NOISE STUDY	N
		RR ENCROACHMENT	N	VALUE ENGINEERING	N	OLD (#)	NEW (#)	SECTION 4(F)	C
RIGHT-OF-WAY				SURPLUS PROPERTY	N			UTILITIES COMPANIES	(LIST BELOW)

RIGHT OF WAY LIAISON	EASEMENTS #	ACCESS CONTROL (Y / N) CURRENT: PROPOSED:		DESIGN STANDARDS		DESIGN SPEED	EXCEPTION (Y/N)
ACQUISITIONS		RELOCATIONS					
SIMPLE (#)	COMPLEX (#)	BUSINESS (#)	RESIDENTIAL (#)				

TYPICAL SECTION

BKE PATH	SIDE-WALK	CURB TYPE	PARKING	SHOULDER / BIKELANE	LANE 3	LANE 2	LANE 1	MEDIAN	LANE 1	LANE 2	LANE 3	SHOULDER / BIKELANE	PARKING	CURB TYPE	SIDE-WALK	BKE PATH
EXISTING																
	1.5			0		3.6	3.6	0	3.6	3.6		0			1.5	
	1.8			1.8		3.6	3.6	4.2	3.6	3.6		1.8			1.8	

PROPOSED

SUGGESTED BASE DESIGN					
ITEM	NEW WORK	OVER EXISTING	ITEM	NEW WORK	OVER EXISTING

STRUCTURE	LENGTH (M)	WIDTH (M)	COST	STRUCTURE	LENGTH (M)	WIDTH (M)	COST
BRIDGE 1	15.3	28.3	645	BRIDGE 5			
BRIDGE 2				BRIDGE 2			
BRIDGE 3				APPROVED, LOCATION ENGINEER			DATE
BRIDGE 4				REVISION APPROVED			DATE

OR DOT PROSPECTUS--CONCEPTUAL COST ESTIMATE
City of Salem

SECTION	REFERENCE NAME/PHONE	AGENCY	SHEET
Mill Creek (State St.) Bridge, No. 470238	David Evans and Associates (503) 223-6663	City of Salem	1 of 1
ROAD OR WORK	LENGTH	DATE	NAME
Bridge Replacement - Stage Construction	200m	10/14/03	Terry Shike

NO.	ITEM	UNIT	QUANTITY	UNIT COST	TOTAL	Section Totals
	Mobilization and Traffic Control					\$ 142,350
	Mobilization	10%	LS	1	\$ 78,900	\$ 78,900
	Temp. Protection and Direction of Traffic		LS	1	\$ 20,000	\$ 20,000
	Temporary Signs		m2	5	\$ 150	\$ 750
	Temporary Barricades		each	2	\$ 100	\$ 200
	Temporary Concrete Barrier		m	400	\$ 40	\$ 16,000
	Temporary Impact Attenuator		ea		\$ 3,500	\$ -
	Temporary Surfacing		m2		\$ 50	\$ -
	Temporary Striping		m		\$ 3	\$ -
	Stripe Removal		m		\$ 6	\$ -
	Striping and Stripe Removal Mobilization		ea		\$ 500	\$ -
	Flaggers		Hour	200	\$ 32	\$ 6,400
	Temporary Pedestrian Bridge		LS	1		\$ -
	Erosion Control		LS	1	\$ 20,000	\$ 20,000
	Erosion Control Matting		m2		\$ 5	\$ -
	Silt Fence, Unsupported		m		\$ 15	\$ -
	Straw Bale Sediment Barrier		m		\$ 25	\$ -
	Permanent Seeding and Mulching		LS		\$ 2,500	\$ -
	Aggregate Construction Entrance		ea		\$ 600	\$ -
	Roadwork					\$ 37,000
	Construction Surveying Work		LS	1	\$15,000	\$ 15,000
	Cleaning and Grubbing		LS	1	\$10,000	\$ 10,000
	Toe Trench Excavation		m3		\$ 10	\$ -
	Embankment in Place		m3		\$ 20	\$ -
	Loose Riprap, Class 25		m3		\$ 40	\$ -
	Loose Riprap, Class 1000		m3	200	\$ 60	\$ 12,000
	Vegetated Ditch / WQ Facility		m2		\$ 20	\$ -
	150 mm Culvert Pipe		m		\$ 50	\$ -
	300 mm Culvert Pipe		m		\$ 80	\$ -
	450 mm Culvert Pipe		m		\$ 110	\$ -
	Retaining Wall		m2		\$ 700	\$ -
	Drainage and Sewers					\$ 54,000
	Drainage Curbs		m		\$ 25	\$ -
	manholes		ea	2	\$ 2,000	\$ 4,000
	inlets		ea	8	\$ 1,500	\$ 12,000
	pipe		m	600	\$ 50	\$ 30,000
	WQ inlets		ea	2	\$ 4,000	\$ 8,000
	Bridge No. 470238					\$ 330,430
	92' x 50' prestressed slab bridge		m2	433	\$1,150	\$497,950
	Bridge Removal		m2	224	\$145	\$32,480
	Bases					\$ 40,000
	Aggregate Base		Mg	1,000	\$ 40	\$ 40,000
	Aggregate Base, Leveling Course		Mg		\$ 20	\$ -
	19.0 mm-0 Aggregate Base		Mg		\$ 30	\$ -
	Wearing Surface					\$ 54,000
	Asphalt Concrete		Mg	600	\$ 70	\$ 42,000
	Extra for Asph Approach		each		\$ 500	\$ -
	Sidewalk		m2	600	\$ 20	\$ 12,000
	Permanent Traffic Control and Guidance Devices					\$ -
	Concrete Barrier		m		\$ 82	\$ -
	Guard Rail, Type 3		m		\$ 200	\$ -
	Guard Rail, Type 4		m		\$ 180	\$ -
	Guard Rail Transition		each		\$ 2,000	\$ -
	Guard Rail Transition, Modified		each		\$ 2,500	\$ -
	Guard Rail Anchor, Type 1 Modified		each		\$ 500	\$ -
	Guard Rail End Piece, Type B		each		\$ 70	\$ -
	Third Beam End Piece, Type B		each		\$ 150	\$ -
	Guardrail Terminal, Flared		each		\$ 2,500	\$ -
	Guardrail Terminal, Non-Flared		each		\$ 2,700	\$ -
	Illumination		each		\$ -	\$ -
	Traffic Signal		each		\$ -	\$ -
	RR Signal Crossing		each		\$ -	\$ -
	Right-of-Way Development and Control					\$ 50,000
	Fence, Type 1		m		\$ 12	\$ -
	Conifer Trees, 2m Height		each		\$ 200	\$ -
	Deciduous Trees, 50 mm Caliper		each		\$ 350	\$ -
	Deciduous Trees, 1.5m-1.8m Height		ea		\$ 180	\$ -
	Shrubs, No.2 Container		each		\$ 20	\$ -
	Live Stakes, 19-38 mm Dia		ea		\$ 5	\$ -
	Plantings or Mitigation		LS	1	\$10,000	\$ 10,000
	Construction Subtotal:				\$ 867,690	
	40% - Engineering Contingencies:				\$ 347,100	
	Construction Total before Inflation:				\$ 1,214,790	
	Cumulative Inflation (annual rate) 5.0% years 4			21.6%	\$ 251,800	
	Construction Total with Inflation:				\$ 1,476,590	
	Right of Way before Inflation		LS	1	\$0	\$ -
	Right of Way with Inflation				\$ -	\$ -

Summary Items (Before Inflation)	
TP&OT:	\$ 43,350
Erosion Control:	\$ 20,000
Roadwork:	\$ 37,000
Drainage & Sewers:	\$ 54,000
Bases:	\$ 40,000
Wearing Surface:	\$ 54,000
Perm. Traffic Control:	\$ -
ROW Development:	\$ 10,000
Roadway:	\$ 215,000
Prospectus Costs (with Inflation)	
Prelim Engr:	\$ 250,000
ROW:	\$ -
Roadway:	\$ 261,300
Structures:	\$ 644,700
Illumination:	\$ -
Traffic Signal:	\$ -
RR Signal Crossing:	\$ -
TP&OT:	\$ 43,700
Mobilization:	\$ 95,900
Subtotal:	\$1,054,000
Engr. & Cont:	\$ 421,900
Total Construction:	\$ 1,474,400
Total Project:	\$ 1,726,400

Bridge Project Prospectus Additional Bridge Information

Applicant: <u>Sefton</u>		NBIS Bridge Number: <u>470238</u>	
Project Name / Section: <u>State St @ Mill Cr</u>		Region:	Area: District:
Funding Preferred Source: <input checked="" type="checkbox"/> OTIA III <input checked="" 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: <u>5%</u> <u>0%</u> 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: <u>1.5 mi</u> Map: (Please attach map)	

Regional Freight Corridor Analysis:

NA

Special Consideration:









