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Ferry Street Pedestrian Bridge
Bridge Life Expectancy Memo (OBEC)
Estimates for New Pedestrian Bridge (OBEC)

Appendix K



### **Technical Memo**

To: Sue Hollis, City Manager, Dayton

CC: Denny Muchmore, P.E., Westech Engineering

From: Jason Kelly, P.E., Field Engineer

Date: July 11, 2008

Re: Life Expectancy and Cost Analysis for

City of Dayton's Ferry Street Pedestrian/Utility Bridge, Yamhill River

OBEC Job No. 299-5

#### Introduction

The Ferry Street Bridge is a 540-foot-long suspension bridge comprised of timber glulam stringers, columns, and caps; solid timbers: and steel support rods. The initial construction date of the bridge is unknown to OBEC Consulting Engineers (OBEC), but is estimated to be 1975. A rehabilitation project was performed in 1987 to realign and brace the structure along with new channel protection measures. OBEC has been involved with inspection and engineering of this bridge since the year 2000. OBEC was initially hired to inspect this structure and then to provide repair designs and related construction engineering management.

The structure carries pedestrian traffic and supports utilities vital to the Cities of Dayton and Lafayette. Utilities supported by this bridge include: water, pressure sanitary sewer, and telecommunication lines. This bridge is a substantial structure given the span and is an essential piece of infrastructure for the City.

The following technical memo has been compiled to satisfy Task 11 of the 2008 Construction Engineering (CE) contract between OBEC and the City of Dayton pertaining to the Ferry Street Pedestrian Bridge. Task 11 states OBEC will provide a technical memo identifying the theoretical life expectancy of the bridge and supply maintenance and cost estimates.

#### **Findings**

A design life of 35 years is a common industry standard for timber structures. However, this life can vary greatly given the type of material, treatment, environmental conditions and maintenance of the structure. The approximate age of the structure is currently 33-years-old and some members are at the end of their life. The Ferry Street Bridge was originally constructed of high quality materials; however, given the harsh, wet environment of the Northwest the expected life is still only 35 to 40 years.

The following is a description of each element, current condition, estimate of remaining life and replacement costs, starting with the element with the worst condition state.

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Ferry Street Bridge OBEC Job No. 299-5

- Timber Glulam Decking: The decking is currently in fair to poor condition with numerous panels showing signs of decay. In June 2008, seven of the most severely decayed deck panels were replaced with new glulam panels. The timber deck sections that bridged the steel rods at Bents 3 and 5 were replaced. These repairs have corrected any immediate danger of local failures and safety concerns. However, I estimate the deck to continue to decay at an accelerated rate and repairs to continue over the next ten years until the deck is completely replaced. Replacement of additional portions of the deck should be scheduled within the next 3 to 5 years. Based on current unit costs of the 2008 contract, the City can expect to spend at least \$200,000 to replace the entirety of the remaining deck.
- Timber Bridge Rail: The timber bridge rail is currently in satisfactory condition with signs of surface wear. The rail will continue to wear and decay with the possibility of individual posts and rails breaking and fasteners failing. The condition of the rail is not as much of a concern as is the design; it should be noted that the rail does not comply with current safety design standards. The rail has been modified previously with the addition of chain link fencing on the lower third. To repair damaged and decayed section will cost approximately \$5,000, at current prices, every 5 years. If the City were to upgrade the rail to current design standards you could expect to spend \$200/ft. for a steel-backed timber rail for a total cost of \$300,000.
- Timber Glulam Columns, Caps and Girders: The elements that support the bridge, the columns, caps and girders, are in fair condition with only minor signs of wear. The City can expect 10 to 20 years of life out of these members under current conditions. These members are an integral part of the structure and estimating the cost of repair is difficult, but is expected to be over \$200,000. However, replacing these members with new steel members would be very costly, requiring heavy equipment and temporary shoring.
- Steel Suspension Rods: The suspension rods are in good condition with minor paint loss on the ends and chalking throughout. This element has the most remaining life out of any element of the bridge and required major maintenance or repairs are not anticipated in the next 20 years. On-going maintenance should include cleaning and painting any exposed metal to prevent any corrosion loss that would affect the strength of the member. Budgeting a few hundred dollars on an annual basis should be sufficient to maintain the paint system.
- On-going Inspections: Given the material type, state of deck and the age of the bridge, we recommend this bridge be inspected on a two year cycle. Budgeting \$3,000 per inspection should be sufficient.

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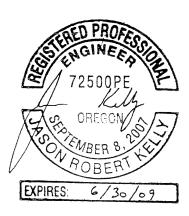
#### Conclusion

This structure has many timber elements that are nearing the end of their safe and useful life. Recognizing that this structure is a vital piece of city infrastructure, it is recommended that maintenance and/or replacement funds be a high priority. No matter which course of action the City takes in the management of this bridge, it will be costly given the length and height of the structure. As stated in the letter by Kevin Boyle dated January 11, 2008 that quoted new replacement bridge costs: preliminary cost estimates range from \$6.9 million for a signature bridge to \$3.8 million for a simple girder bridge.

#### Sources

Information used to arrive at theoretical cost estimates came from the most current project sources from OBEC and ODOT. Actual costs from OBEC's numerous construction projects, including the most recent rehabilitation of this bridge, as well as restoration projects in Benton and Polk County were used. ODOT's webpage containing 2007 and 2008 average bid item prices from Region 2 (Northwest Oregon) were used.

Inspection condition ratings were based on the 2008 ODOT Bridge Inspection Manual and current National Bridge Inventory System (NBIS) standards. Inspection procedures and practices follow industry Best Management Practices, specifically ODOT inspection guidelines as well as guidelines accepted by the US Forest Services outlined in their Timber Bridges Design, Construction, Inspection and Maintenance Manual.



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January 11, 2008

To: Sue Hollis

Dayton City Manager 416 Ferry Street PO Box 339 Dayton, OR 97114 Re:

Dayton Pedestrian Bridge Repairs

OBEC Job No. 299-05

WESTECH
JAN 1 4 2008
RECEIVED

We are sending you:

By Mail

By Messenger

☐ By FedEx

Description:

- 1. Two (2) copies of draft ODOT Project Prospectus, parts 1-2, and cost estimate for signature structure and a girder type structure
- 2. One (1) copy of Project Scoping Notes
- 3. One (1) copy each of five different structure type illustrations for a new bridge

<u>Remarks</u>: Sue, enclosed for your files are copies of the documents mentioned above. They are for the City to consider if and when a decision is made to pursue funding for a new bridge across the Yamhill River.

The bridge types considered are a specialty, or signature, structure (cable-stayed and stress ribbon) as well as more conventional concrete or steel girder types. The preliminary cost estimates range from \$6.9 million for the signature bridge to \$3.8 million for the girder bridge. I have included cost estimates for each type because the cost per square foot is considerably different, ranging from \$400/square foot down to \$200/square foot, depending on the type of bridge being considered. Preliminary engineering, construction engineering, and construction contingencies have also been added to the cost to provide the City with as realistic a cost as possible. Also included are elevation drawings to give you a general idea of the appearance of each type of bridge across the river.

In previous phone conversations, I mentioned that this project appears to be a good candidate for the Transportation Enhancement program through ODOT. If you choose to pursue this funding opportunity, a Notice of Intent to Apply is due at ODOT by February 1, 2008 with formal applications due in May 2, 2008. Funding for the projects under this solicitation will not be available until the 2011-2012 biennium. I have reviewed the application information ODOT provided and it appears that they may place a dollar limit of \$1.5 million per project.



However, should the City decide to make application for Transportation Enhancement funding, you will need a contingency plan that identifies where the additional monies would come from to fully fund the project. My recommendation is to begin the process now to locate other funding opportunities from water and sanitary sewer grants or other sources of grant monies.

If I can be of any further assistance, please do not hesitate to contact me.

Sincerely,

Kevin E. Boyle
Project Manager

KEB/gr Enclosure

Corporate File (w/encl.)

# **LOCAL AGENCY - PROJECT SCOPING NOTES**

Date: 25-Oct-2007 Nam	ne: OBEC C	Consultina Engi	neers			Phone:	503-58	9-4100
Project Name: DAY	TON PEDEST	TRIAN BRIDGE						
Road or Street Name: Ferr	y Street			Loc	cal Agency Ro	ad Number:		
Agency: City of Dayt	ton				le Post / Leng			
Location Quad Map: Day	rton	Manager of the second s	Coc	ordin	nates: N 45°	13' 23" W 1	23° 04'	15"
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Bridge Cost								
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Page 1 of 6

#### Project Sketch Area

#### PROBLEM IDENTIFICATION:

The existing pedestrian bridge was constructed in the 1970's with repairs and utility lines added in the 1980's. The bridge is beginning to show its age and the City is interested in replacing the bridge with a more permanent structure. The bridge carries a waterline that can change direction of flow as necessary. Also under the bridge is a pressure sanitary sewer line that transports sewage to the City's treatment lagoons located on the north side of the Yamhill River. The City has concerns that in a major flood or seismic event, the structure may sustain damage that would result in failure of the bridge and rupture of the water and sewer lines.

#### PROPOSED ALTERNATIVES (SCOPE):

Construct a new concrete or steel bridge that will provide a minimum of 75 years of service for the City of Dayton for the waterline, sanitary sewer line expansion, and provide safe pedestrian and bicycle crossing for residents living on the north side of the bridge that need city services and for residents wanting to access Alden Park for recreation.

- CHECK PROJECT LIMITS (PRIOR PROJECT LIMITS, MISSED SECTIONS, APPROPRIATE START & END, SAFETY, FUNDING LIMITS):
   The proposed project will begin near the intersection of Ferry Street, First Street, and Water Street and extend ±600 feet in a northerly direction across the Yamhill River and its floodplain to a landing within City property near the sewage treatment lagoons and Alden Park.
- ACCIDENT LOCATIONS (ACCIDENT PROBLEMS, SEE TRAFFIC ACCIDENT REPORTS, SIGHT DISTANCE):
   There is damage to the timber end rails as the result of a car attempting to drive out on the bridge.
- TYPICAL SECTION, DESIGN SPEED & PAVEMENT NEEDS (LANE WIDTH VS. DESIGN STANDARDS, WIDENING / LEVELING / SUBGRADE REPAIR / PAVEMENT DESIGN) SEE TABLE ON FIRST PAGE FOR ADDITIONAL INFORMATION:

  The proposed typical section for the bridge is a 12-14 foot wide bridge with a paved sidewalk or pedestrian path. The proposed width is wider than was discussed during the site visit. The AASHTO bicycle book states that shared use facilities should be 10 feet wide (page 35). It goes on to state that structures should be the width of the approach path plus 2 feet of clearance (shy distance) on each side (page 55). So, the "correct, standard" width for the bridge should be 14 feet. It is noted that the bridge is referred to as a pedestrian bridge. However, it will function as a shared use facility. The additional width will also assist with maintenance vehicle access.
- SHOULDERS / DITCHES (ADEQUATE WIDTH / SLOPES / SHOULDER ROCK / DITCH WORK):
   Not applicable
- DRAINAGE NEEDS (FISH CULVERTS, DAMAGED OR PLUGGED CULVERTS, EXTENSIONS, OFFSITE DRAINAGE, FLOODING
  PROBLEMS, CATCH BASINS, DITCHES):
  Stormwater runoff will need to be carried to the ends of the bridge and drained into the storm sewer system or some kind of vegetated ditch. The existing slopes appear to provide sufficient room to allow the runoff to pass through the grasses before entering the river.
- ROAD APPROACHES / ACCESSES (PAVE OR GRAVEL / CLOSURE? / SIGHT DISTANCE PROBLEMS?):
   Grading and paving of existing roadways and pedestrian path is recommended at each end of the bridge.
- DESIGN EXCEPTIONS AND CONCURRENCES (VERTICAL/HORIZONTAL CLEARANCES, ALIGNMENTS, BRIDGE WIDTHS & RAIL, SHOULDER & LANE WIDTHS, SIDE SLOPES, CLEAR ZONE, ETC.):
   There are no design exceptions anticipated for the project.

- SPECIAL DESIGN FEATURES TO BE ADDRESSED (EXISTING SLOPES VS. DESIGN STANDARDS HORIZONTAL & VERTICAL
  ALIGNMENT VS. DESIGN STANDARDS; BOAT RAMPS IN VICINITY OF BRIDGE [OREGON MARINE BOARD CONTACT]);
  The project will need to work around the sanitary sewer pump station located at the south end of the bridge.
  Accommodations will be required to get the sanitary line across the bridge and into the lagoons. The installation of removable bollards to restrict vehicular access is recommended for the project.
- BRIDGE/RETAINING WALLS/STRUCTURE NEEDS (NUMBER OF SPANS PROPOSED, BRIDGE RAILING, END TREATMENTS): The existing bridge is a 540' long x 9' wide timber structure with steel rods functioning as suspension members. There are several options to be considered to meet the needs of City services and the residents in the community. The approach at the south end of the bridge is adjacent to the local city street and will likely require some type of retaining wall to maintain access on the street.

For purposes of the scoping notes, the proposed bridge will is  $\pm 550$  feet long and 10 feet wide.

- BRIDGE APPROACH NEEDS (IMPACT PANELS, EXPANSION JOINTS):
   The new bridge will likely need expansion joints at each end.
- GUARDRAIL NEEDS (REPAIR / REPLACE / EXTEND / ADD / DELETE / APPROPRIATE LENGTH / END TYPE):
   Guardrail will not be needed on the project. However, pedestrian railing will be required for the approach embankment to the bridge.
- TRAFFIC CONTROL (DETOUR / STAGE CONSTRUCTION / TRAFFIC, ROAD CLOSURE, TEMPORARY BRIDGE):
   Minimal traffic control signing will be required for the project to notify the public of the work zone.
- <u>CONSTRUCTION ACCESS</u> / <u>STAGING AREA LOCATION</u> / <u>CONSTRUCTABILITY CONSIDERATIONS</u>:
   Access to the site will need to come from Ferry Street on the south end and through the sewage treatment plant property on the north end.
- FOUNDATION / GEOTECHNICAL / GEOLOGY CONSIDERATIONS / PH & RESISTIVITY (DRILLING NEEDED? / SURCHARGE? / OTHER?):

Geotechnical exploration holes will be required for the new bridge. Depending on span length and number of piers, one hole per pier location is typically required. For purposes of these scoping notes, 4-5 holes are recommended for this project.

- HYDRAULICS CONSIDERATIONS (SCOUR / EROSION / RIPRAP / FEMA?):
   The new bridge piers will be located within the 100-yr floodplain.
- SIGNING REQUIREMENTS / PAVEMENT STRIPING / OTHER PAVEMENT MARKINGS (REPLACE OR REINSTALL / SIGNING PLANS? / SHOULDER DELINEATORS? / STRIPING PLANS? [DURABLE STRIPE PRODUCT?]):
   There are no existing signs present. This is an issue that may require input during the design phase.
- ADA NEEDS (RAMPS, DRIVEWAYS, CURBS, SIDEWALKS, PEDESTRIAN RAILING): The new bridge will need to conform applicable ADA requirements for vertical alignment and railing height. The standards for city street standards vs. recreational paths have slightly different requirements which will need to be determined prior to the start of design.
- MAILBOX NEEDS (REPLACE, MOVE OR COMBINE MAILBOXES):
   None identified within the vicinity of the project.

### MISCELLANEOUS ITEMS (FENCING / GATES / BOLLARDS / LANDSCAPING / ETC):

It is recommended that removal bollards be placed near the approaches to the bridge to prevent unauthorized vehicles form accessing the bridge.

#### <u>UTILITY CONFLICTS (UNDERGROUND AND OVERHEAD CONFLICTS)</u>:

Overhead — There are power lines located on the easterly side of the existing r/w that may require relocation. Underground — The existing bridge carries the City's pressure sanitary sewer trunk line to the treatment plant. There is also a waterline on the bridge that the flows in either direction, as the City needs. There is a Verizon phone line hanging on the bridge that will require relocation.

Relocation of these facilities will need to take place after a new bridge has been constructed.

• <u>ILLUMINATION / TRAFFIC SIGNALS (HISTORIC OR ORNAMENTAL STREET LIGHTING; PERMANENT OR TEMP SIGNALS):</u>
There is no street lighting around the existing bridge. The City may want to consider some kind of illumination on the new bridge.

#### SURVEYING NEEDS:

Right of way (r/w) retracement to determine actual location, hydraulic cross sections, and complete topographic survey of all natural and man-made features (e.g.: trees, terrain, utilities, building corners, fences, drainage features, street intersections, etc.)

#### RIGHT-OF-WAY NEEDS:

The dedicated r/w was unknown at the time of site visit. The City believes that there is sufficient r/w to construct a new bridge. Temporary construction easements may be required for access during construction.

- How will additional R/W be paid for, if required? None anticipated
   (If federal funds are available, need a letter from Local Agency requesting programming with an estimating cost.)
   Who will prepare R/W Descriptions & Maps? If necessary, by consultant
   Who will perform R/W Appraisals & Negotiations work? By consultant
- ENVIRONMENTAL ISSUES: (LOOK AT STAGING AREAS & CONSTRUCTION ACCESS FOR ENVIRONMENTAL IMPACTS)

#### ■ HAZMAT:

The existing timber structure utilizes treated timber materials. The City sewer treatment plant is located on the northern end of the proposed project and there is a pump station on the south end of the project. A level 1 environmental site assessment needs to be performed for the project.

#### HISTORICAL (BRIDGES, STRUCTURES, BUILDINGS, ETC.) [SECTION 106]:

There are no apparent historic buildings near the proposed bridge site. However, a historian needs to walk the adjacent area and make a determination.

#### ■ ARCHAEOLOGICAL SITES (KNOWN OR POSSIBLE SITES) [SECTION 106]:

A phase 1 archaeological survey needs to be performed around the area of impact for a new bridge siting.

#### ■ WETLANDS (KNOWN OR POSSIBLE WETLANDS / MITIGATION SITES):

It appears that wetlands may be limited to the bed and banks of the river. However, a wetland determination/delineation needs to be prepared for the project.

#### ■ SPECIAL EROSION / RIPARIAN NEEDS (RIPRAP / SEEDING AND MULCHING / TREE PLANTINGS / ETC.):

There are no apparent erosion or riparian needs for the project. The construction of a new pedestrian bridge will likely require the removal of some trees. It is recommended that any tree removed be replaced with native species to maintain the riparian needs of the river.

- THREATENED & ENDANGERED SPECIES (FISH / WILDLIFE ANIMAL & PLANT ISSUES REQUIRING BA/BO):
- A rare plant survey will be required for the project. A data search for T & E species for the nearby Yamhill River bridge in Lafayette identified the following species: Streaked Horned Lark, Chinook salmon, Steelhead, Oregon Giant Earthworm, and Thin-leaved Peavine. There is the possibility that fish and wildlife biological assessments may be required for the project in order to obtain a removal-fill permit from the Corps of Engineers.
- REQUIRED LAND USE ACTIONS (CONDITIONAL USES FOR EFU, FARM/FOREST, INDUSTRIAL, ETC.):
  No conditional use permits are anticipated at this time. The City owns all of the current r/w required for the project.
- WATER QUALITY ISSUES AND OR CONCERNS:

Runoff from the bridge will need to be directed into vegetated swales/ditches for passive treatment.

- 4(f) (PARK LANDS, RECREATION AREAS, WILDLIFE REFUGES, SCHOOL GROUNDS, ETC.):

  There is a small park located at the northern end of the bridge that the City would like to develop for community use. It is likely that the project will require programmatic 4(f) documentation.
- 6(f) (LAND & WATER CONSERVATION FUNDS USED TO ACQUIRE PARKS, ETC?): It is unknown if the City has received any 6(f) funds
- NOISE:

The City likely has a noise ordinance. A noise variance may be required for construction.

- IN-WATER WORK PERIOD (TRIBUTARY TO WHAT BODY OF WATER OR DRAINAGE OUTFALL?):

  The in-water work period for the Yamhill River is July 1 October 15. New structure and bridge removal will determine if there is any need for in-water work on this project.
- NON-LISTED WILDLIFE ISSUES (MIGRATORY BIRD TREATY ACT, WILDLIFE PASSAGE, ETC.):

  To comply with the Migratory Bird Treaty Act requirements of nesting birds, any tree removal will need to take place between the time the fledglings have left the nest and the start of the nesting season the following year. The time to complete tree removal is generally considered to be prior to February 28.
- OTHER ENVIRONMENTAL ISSUES:

Nothing identified

- <u>FEDERAL AGENCY COORDINATION (USFS, BLM, BIA, ETC.) [EASEMENTS AND/OR PERMITS]:</u>
   There is no land owned by federal agencies near the project. Therefore, no additional coordination will be required.
- PERMITS (SECTION 404 [REMOVAL-FILL FROM CORPS OF ENGINEERS & DSL], SECTION 10 [FROM CORPS OF ENGINEERS OR COAST GUARD], FLOODPLAIN, RAILROAD CROSSING ORDER, OTHER FEDERAL, STATE OR LOCAL PERMITS):

The project will likely require a COE/DSL Removal-Fill permit because the interior piers will be located within the floodplain of the Yamhill River. The project will also require a county floodplain permit with a no-rise certification for work within the 100-yr floodplain.

 POLITICAL OR CONTROVERSIAL ISSUES (THAT COULD DELAY PROJECT, CONSTRUCTION TIMING, RAILROAD CROSSINGS, APPROVED / PLANNED DEVELOPMENT):

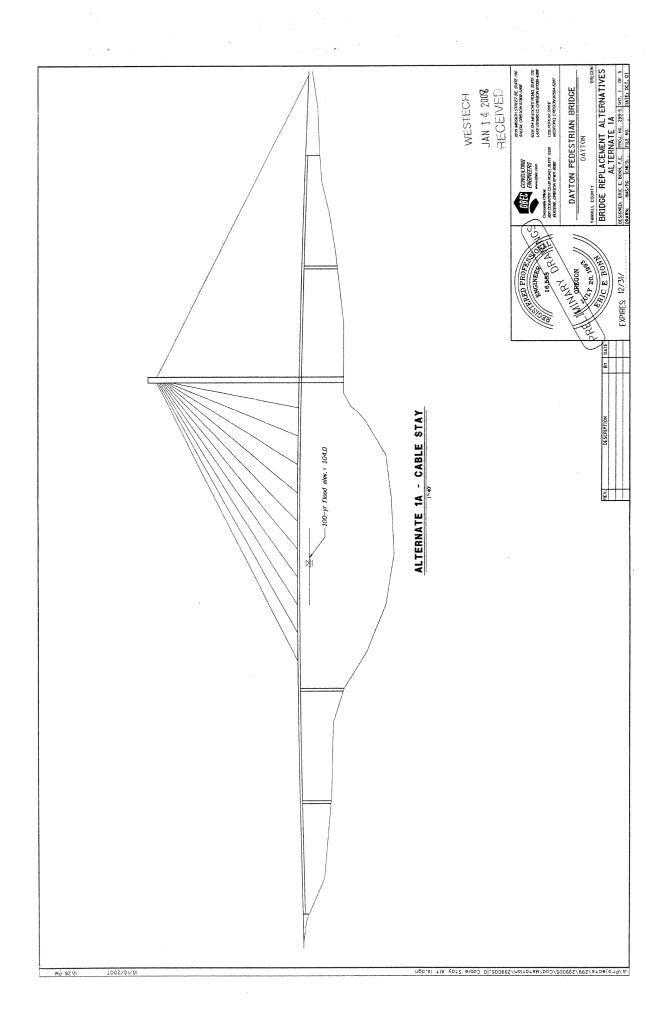
There is concern with some in the City that the existing bridge is "plenty good enough" while others recognize the need to plan for the future.

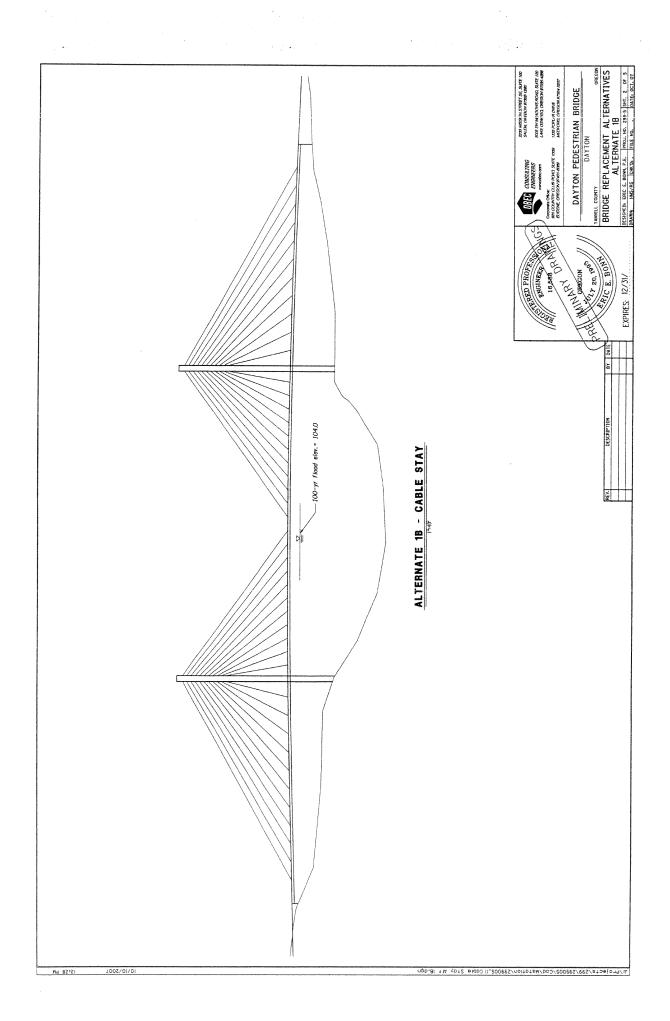
#### • OTHER:

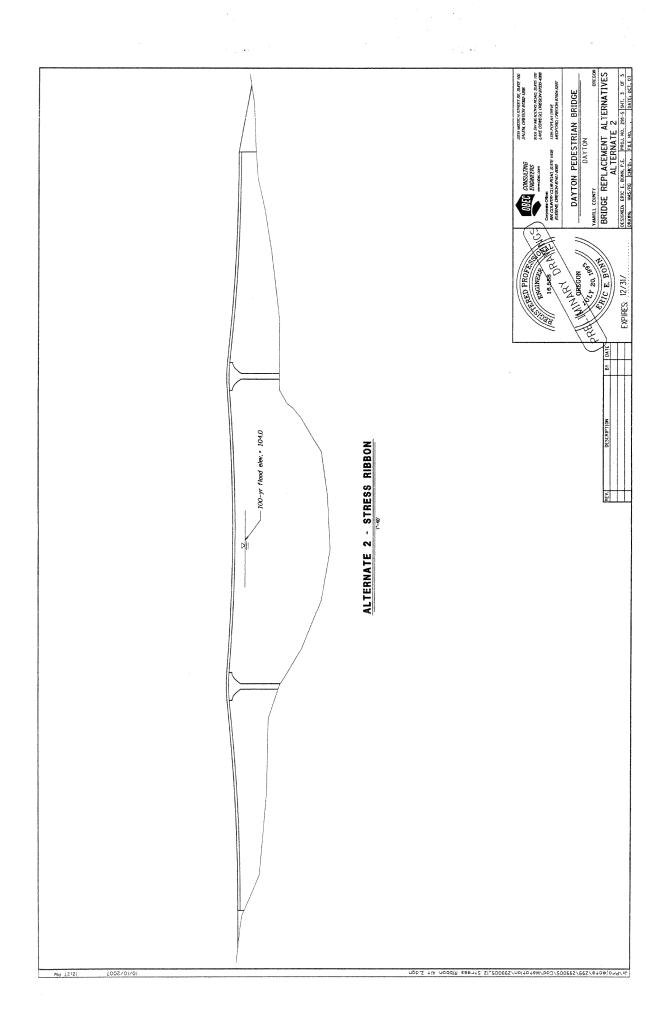
The City has plans to upgrade sanitary pump station located at the south end of the bridge and bring it up to current standards. The design of a new bridge will need to accommodate the pump station location. Therefore, the City will need to provide "as-built" plans to the design team.

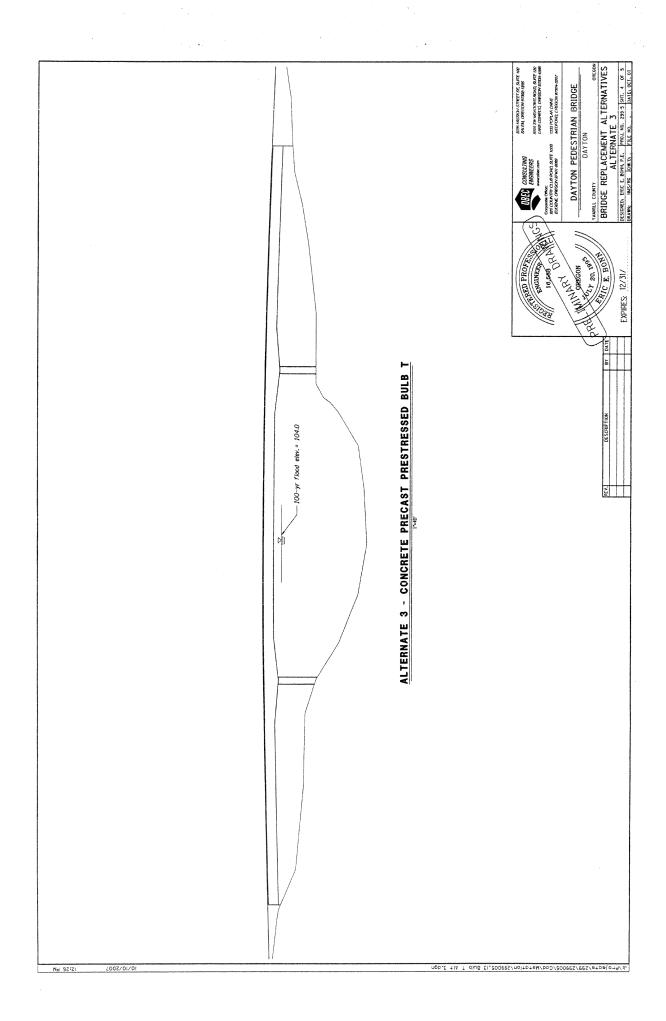
#### ATTENDEES:

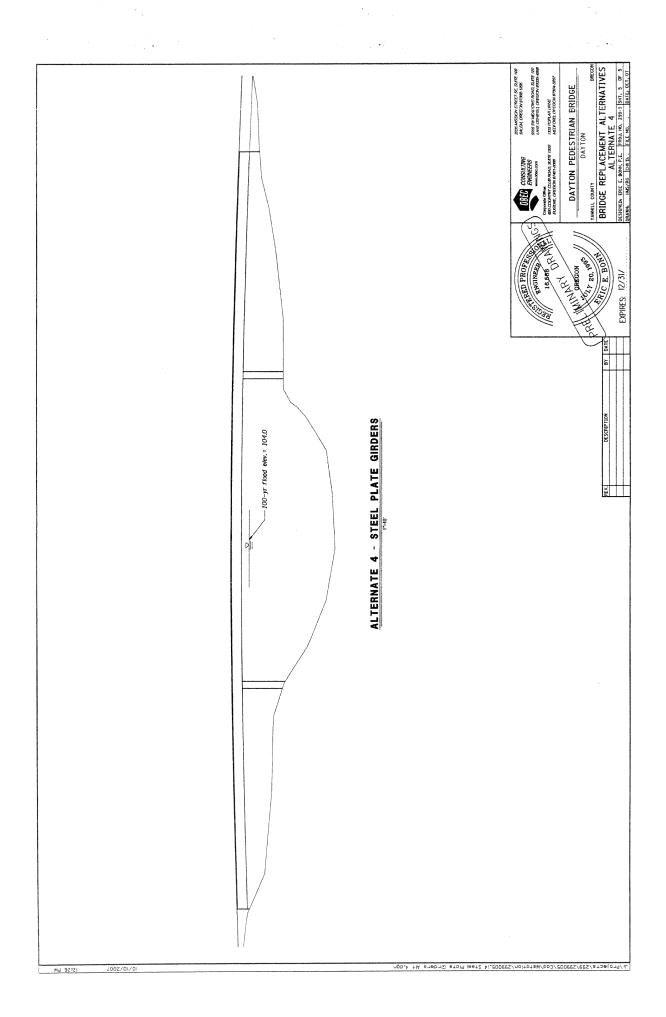
LOCAL AGENCY: (City of Dayton) Kurt Riemer
CONSULTANTS: (OBEC) Kevin Boyle, Eric Bonn











Part 1 — Project Request (Page 1 of 2)

the most of the							Key Nu	nber:	Jurisdict	ion:
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Signals			Detour				Prelimi	nary Engineering	(S,C,A)	С
Illumination	\$ 100						Constru	ction Engineering	(S,C,A)	С
Temp. Protection	\$ 22						Right o	f Way Descriptions	(S,C,A)	C
Const. Contingencies	\$ 610						Right O	f Way Acquisitions	(S,C,A)	C
Const. Engineering	\$ 366			Project	Categories			Construc	ted By	
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			Design Ca	ategory	(1-	7) 7			2000	and the same of th
Total CE and Construct	tion:	\$ 3,416	Work Typ	e Code	(1-1	3) 5		State Force		Other
Total Estimate:		\$ 3,856	Primary S	STIP Work Typ	e:			City Force		
Recommended Let Dat	e By Federal F	Fiscal Year (Qu	arter-Year):							
PE Fund:		R/W Fund:			UR Fund:			CE-CN Fund:		
PE EA:		R/W EA:			UR EA:			CE-CN EA:		
Item	Existing	Proposed		e Problem:	r nadactrian	bridge we	c constr	ucted in 1970 is	roachir	a the end
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Bike Way (#)	1	1						W.C.	STILL	
Average Daily Traffic	N/A	N/A						JAN SE	149	100 <b>8</b>
Year of ADT	N/A	N/A							-C14	C.
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pared By:			Date:		OTC Approval	Date:		Program Year:	Fundin	g Amount:
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		CT PROSPECTUS		Key Number:	Jurisdiction:	
MA E	Part 1 Proj	ect Request (Page 2 of 2)			(	
ction:	Dayton Pedestrian Bridge (	Concrete/Steel Girder Option)	Region:	Area: Mid-Willam		Distri
	Daytom Coostilate Drago (		2	MIO-VVIIIAITI	alle valley	
and the		Project Justification	ווע			
	Additional Informa	ation For Project Reques	sted By L	ocal Jurisdic	tions	
			7.00	ocal Jurisdic	tions	
Responsi		ation For Project Reques	7.00	ocal Jurisdic	tions	
	ble Local Office To Be Conta		7.00	ocal Jurisdic	tions	
1. <b>P</b> u	ble Local Office To Be Conta	acted For The Following Activ	rities:			
1. Pu Cit	ble Local Office To Be Conta ablic Hearing / tizen Involvement	acted For The Following Activ	rities:	503-864-222	1_ (Phone	
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Part 2 Project Details (Page 1 of 2)

Key Number: Jurisdiction:

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action:										Region:	Area:			District:
no constructivo e e e e e e e e e e e e e e e e e e e	Daytor	Pe	edestrian Bridg						<b>5.1 b.</b> 1.	2	Mid-V	Villame	tte Valley	3
			Activity Respo			onsuita	nt A - Applicant E	- Existing	14 - 140		armite	and Cla	arances	
Surplus Property		J	Signs (Permanent)		С	Storm	n Sewer	С	Airpor	t Clearance	N	Wetland		С
Citizen's Advisory		· V	Striping (Permanent)		N	Land	scaping	С	Land Action	Use ns/Permits	С	Endang		С
Photogrammetry		4	Project Signing		С	Irriga	lion	N	Flood	Plain	С	Hazma		С
Reconnaissance Survey		)	Detour	***************************************	N	Borro	w Source	N	Buildi	ng	С	Historic Resour		С
Public Hearing	1	4	Illumination		С	Mate	rial Source	N	•	Engrs/DSL ve/Fill	С	DEQ in Source		N
Field Survey	(	2	RR Crossing		N	Dispo	sal Source	N	Coasi	Guard	N	DEQ N Source	on-Point Water	С
Vicinity Map		2	RR Protection		Ν	Local	Agreement	S	Geolo	gy and Minerals	N	Archae Survey	/	С
Soils/Geotech Investigation	(	2	RR Separation		N	Sens	itive Land	N		ls Warrants	N	Noise S	Study	N
Hydraulic Study		2	RR Encroachment		N	Value	Engineering	N	Utilitie (see t	<del>-</del>	Υ	Section	4(F)	С
Utility Coordinatio	n (	2	Utility Verify Vert H (VVH)	oriz	С									
			Right-Of	-Way					1	f Utilities: er (PGE)				
Right-Of-Way Liai	son			Acce	ss Conf	rol (Y/h	· 1	1	1	ne (Verizon)				
		98 A					<u>  N</u>	<u>N</u>	Wat	er (City)				
	Acquisitle	- 90 CST					elocations		Sani	tary Sewer (C	City)			
Simple No.			Complex No.	В	siness	No.	Resident	ial No.			r			
N			Ν		N		2		1	sign Standards AASHTO		Speeds VPH	<u> </u>	V
		<u> </u>					uggested Base [	esign						
Ite	ım		New Work Surface	(in)	Ove	r Existii (ir	ng Surface		Item		1	Work ce (in)	Over Existi (i	ng Sunace n)
Aggregate Bas	se		8"						en e					
AC Pavement	***************************************		3"											
	-				- Aboy (1)									
Structures	1 41-		(45.41)	- 11-		· ·				l				_ ^ /
Ped/Bike Br	Length		Width 14' wide	ne	ight	<b>-</b>	Cost	Structure		Length	Wi	atn	Height	Cost
rea/bike bi	550' lon	y	14 Wide					***************************************						
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pproved Area Ma	nager	***********	1	distriction	insponentine en e		manine de la companya		a fa d t in me a d fee de compaño d	L	Date			
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	Part 2 — Project Details (Page 2 of 2)		Key No.: 0	Jurisdic	tion: 0
JECTION:		Region:	Area:		District:
	Dayton Pedestrian Bridge (Concrete/Steel Girder Option)	2	Mid-Willamette	Valley	3

#### Segment of Alternative 1:

Comments on Segment or Alternative:

Existing (below)	Units In:	Feet	Comment on Existing:	Timber Pedestrian Bridge only

Bike Path	Side- Walk	Curb Type	:	Shoulder/ Bikelane		Lane 2	Lane 1	Median	Lane 1	Lane 2	Lane 3	Shoulder Bikelane	 Curb Type	Side- Walk	Bike Path
				9'											
				14'											
Propos	ed (abov	e)	Units In:	Feet	Comme	nt on Pro	posed:	Concre	ete Ped	d/Bike E	Bridge	-			

#### Segment or Alternative 2:

Comments on Segment or Alternative:

Ė	Existing	(below)	!	Units In:	reet	Comme	nt on Ex	isting:	resun	g seco	no alter	nauve					
Г	Bike	Side-	Curb	Parking	Shoulder/	Lane	Lane	Lane	Median	Lane	Lane	Lane	Shoulder	Parking	Curb	Side-	Bike
	Path	Walk	Туре		Bikelane	3	2	1		1	2	3	Bikelane		Type	Walk	Path
Г																	
L				l											ļ		<u> </u>

Units In: Feet Comment on Proposed: Proposed (above)

#### Segment or Alternative 3:

Comments on Segment or Alternative:

isting	g (below)		Units In:		Comme	nt on Ex	isting:									
ike Path	Side- Walk	Curb Type	Parking	Shoulder/ Bikelane		Lane 2	Lane 1	Median	Lane 1	Lane 2	Lane 3	Shoulder, Bikelane	Parking	Curb Type	Side- Walk	Bike Path
		***************************************												·		
Propos	ed (abov	e)	Units In:		Comme	nt on Pr	posed:									

#### Segment or Alternative 4:

Comments on Segment or Alternative:

Existing	j (below)		Units In:		Comme	nt on Ex	isting:									
Bike	Side-	Curb	Parking	Shoulder/	Lane	Lane	Lane	Median	Lane	Lane	Lane	Shoulder	Parking	Curb	Side-	Bike
Path	Walk	Type		Bikelane	3	2	1		1	2	3	BIKELANE		Туре	Walk	Path
		<u> </u>														
			-									<del> </del>				
Propos	ed (Abov	e)	Units In:	!t	Comme	nt on Pro	oposed:	h								

**Bridge Prospectus Cost Estimate** 

	D11	age Frospect	US CL		are	
			*	NBIS		
			В	ridge No.		
Applicant:	City	of Dayton				를 위한 시간 하다는 것이다. 
2	DAYTON	PEDESTRIAN BR		Region:	A	rea: District:
Project / Section	<ul> <li>The state of the first order</li> </ul>	e/Steel Girder)		2		
	(Concre	e/sieei Giraer)			MIG- WING	mette Valley 3
New Bridge / Roadway Cor	nfiguration:		Exis	ing Bridge:		
Left Side Rail	2.5	feet		ge Length		540 feet
Left Sidewalk		feet		ge Width		9 feet
Shoulder		feet	Are	•		
Lane 2		feet	Aie	4.		4860 square feet
Lane 1	E	feet	K.C.L.	A / T = 14/	· tot	
CL	J	- <del>-</del> -		AC Top W	iam	14 feet
	-	feet		AC Depth		3 inches
Lane 1		feet		Base Depth	1	8 inches
Lane 2		feet		ect Length		900 feet
Shoulder		feet		Road Work	Length	350 feet
Right Sidewalk		feet		Side Slope		1.5
Right Side Rail	2.5	feet	AC.	Avg Width		14.375 feet
				Avg Width		15.75 feet
Bridge Length	550	feet	Aspl	nalt Density		150 lbs/cu ft
Bridge Width	1.5	feet		Density		142 lbs/cu ft
New Area		square feet		AC Receive	·d	91.7 tons
				Base Requi		260.9 tons
			: 10 M	Dase Redui	x	200.7 10115
	Laterage A co	T T	<del></del>			T
COST ESTIMATE:	Quantity	Unit		Price		Cost (\$x1000s)
	Godinity			per unit		Cost ( 4x 1000s)
Right-of-Way	1	Acre	\$	100,000		\$50
	==Roadway			-		
Mobilization	1	lump sum	\$	221,774		\$222
Temporary Protection	1	lump sum	\$	21,958		\$22
Clear & Grub	1	lump sum	Š	21,740		\$22
Erosion Control	,	lump sum	ξ.	21,525		\$22
Riparian Mitigation	1	lump sum	4	25,000		\$25
	ı	•	پ ج			
Temp Conc Barrier	200	feet	•	25		\$0
General Excavation		cubic yards	****	20		\$6
Embankment in Place	300	cubic yards	<b>&gt;</b>	15		\$5
			\$	120		\$0
Temp Impact Atten.		each	\$	2,000		<b>\$</b> O
Aggregate Base	261	tons	\$	20		\$5
Asphalt Concrete	92	tons	\$	85		\$8
Riprap		cubic yards	\$	75		\$0
Guardrail, Type 2A		feet	\$	1.5		\$0
Guardrail, Type 3		feet	\$	45		\$0
Guardrail Trans		each	Š	2.000		\$0
Flared Terminals		each	\$	2,100		\$0
ridied reminds		eddi			~ · · · · · · · · · · · · · · · · · · ·	
			JUD1	otal Roadw	~ <i>,</i>	\$336
Christian	0.050	annava fort	e	200		\$1.450
Structures	6,230	square feet	\$			\$1,650
Bridge End Panels	-	square yard	\$ \$ \$ \$ \$	275		\$0 *33
Extra/Drilled Shafts (5%)		lump sum	\$	82,500		\$83
Temp Detour (Const & Remove)		lump sum	\$	•		\$0
Work Bridge (25x4100)	2,500	square feet	\$	60		\$150
Retaining Walls		square feet	\$	75		<b>\$</b> 0
Illumination	1	lump sum	\$	100,000		\$100
Remove Existing Bridge	4,860	square feet	\$	25.00		\$122
<u>.</u>		lump sum				\$0
		lump sum				\$0
		<del></del>	Subt	otal Structur	es	\$2,104
				otal Constru		\$2,440
	==Engineeri	na==				* **
Construction Engineering	~	percent of constr	uction			\$366
Contingency		percent of constr				\$610
Commigency		Percent Of COUNT		otal Const. E	na.	\$976
Preliminary Engineering			300	J.G. Const. L	· · 9 ·	Ψ// <b>U</b>
Consultant	1 4	percent of constr	untion			\$342
State	1 4	percent of constr				\$24
	1					
City		percent of constr	UCTION	-a-l DE	***************************************	\$24 \$300
			2001	otal PE		\$390
			Tota	l Estimate		\$3,856
						WU, JU U II



Part 1 — Project Request (Page 1 of 2)

A STATE OF THE STA		, art		joot moq	uest (rage	. 0, 2,			Key Nur	nber:	Jurisdict	ion:		
Section:	Dayto	on Pe	destriar	n Bridge	(Cable-Stay	ed Option)			Region: 2	Area: Mid-Willamette	Valley	District:		
State Highway No.:	Highway Na	me:					Mile P From:	oint		To:	Length:	(MI)		
☐ Urban ☑ Rural	City: Dayton	MPO:	Within UGB	✓ Yes	County: Yan	nhill	Road/St Ferry S		ame:		an alakan kan kan kan kan kan kan kan kan kan			
Route No.:	NHS   YES	HPMS	:	FC:	City of Dayto		te):							
US Congre	ssional Distri	ct:			State Se	enate District:				State Represent	ative Dist	rict:		
Cost Estim	ates ( x \$ 1,	000)			Project (	Component	s			Right Of	Way	-		
Preliminary Engineerin	9	\$	704	Grading				X	Files		(#)	2		
Right Of Way		\$	50	Paving				X	Acres		(#)	<1		
Utility Reimbursement			Structure	es			X	Relocat	ions	(#)	0			
		Signing					Acquisi	tions	(#)	0				
Roadway	\$ 527			Signals	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Easeme		(#)	2		
Structures	\$ 3,737			Illuminat	tion			X	γ	Vork By: State / Con	sultant /	Applicant		
Signals				Detour					Prelimi	nary Engineering	(S,C,A)	С		
Illumination	\$ 100								Constru	ction Engineering	(S,C,A)	С		
Temp. Protection	\$ 40								Right o	f Way Descriptions	(S,C,A)	С		
Const. Contingencies	\$ 1,101								Right C	f Way Acquisitions	(S,C,A)	С		
Const. Engineering	\$ 660				Project	Categories				Construc	ted By			
our				Environr	mental Class	(1, 2,	3, PCE)	2		Contract		County Force		
			***************************************	Design C	Category	(*	1-7)	7	] _					
Total CE and Construc	tion:	\$	6,165	Work Ty	pe Code	(1	-13)	5		State Force		Other		
Total Estimate:		\$	6,919	Primary	STIP Work Typ	e:				City Force		······································		
Recommended Let Dat	e By Federal	Fiscal	Year (Qu	arter-Year	):									
PE Fund:		R/W	Fund:			UR Fund:				CE-CN Fund:				
PE EA:		R/W	EA:		ALLE AND	UR EA:				CE-CN EA:				
ltem	Existing	Pr	oposed		he Problem:		مامانيا م			ucted in 1970 is	· roash:	na tha and		
Travel Lanes (#)	1		1	1	-	•				residents living (				
Structures (#)	1		1							arries a water a				
Signals (#)	0	1	0	7	cross the riv									
Bike Way (#)	1	İ	1								, LV			
Average Daily Traffic	N/A		N/A							VAN JAN SEC	1 4 2	8		
Year of ADT	N/A	1	N/A	1						3AW		we gom		
Throughway Y/N	N		N	1										
				Constru	e Proposed Sol uct a new co mum of 75 y	oncrete brid			e river	that will serve th	ne City	of Dayton tc		
epared By:	I		n, ellen a puez de contra de conque montre de	Date:		OTC Approv	al Date:			Program Year:	Fundin	g Amount:		

44.07	11(00=	CT PROSPECTUS		Van Nurska	Jurisdiction:
	Part 1 Pro	ject Request (Page 2 of 2)		Key Number:	
"Nepofi"				0	Disti
ction:	Dayton Pedestrian Bridg	ge (Cable-Stayed Option)	Region: 2	Area: Mid-Willame	
		Project Justificat	ion		
	Additional Inform	ation For Project Requ	ested By Lo	ocal Jurisdic	tions
		ation For Project Reque		ocal Jurisdic	tions
Responsible		ation For Project Reque		ocal Jurisdic	tions
1. Public	Local Office To Be Conta	acted For The Following Act	ivities:		
1. Public Citizer	Local Office To Be Conta : Hearing / n Involvement	acted For The Following Act	ivities: (Office)	503-864-222	1_ (Phone)
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1. Public Citizer 2. Enviro 3. Pre-Er This Official I ity of:  By:  By:  pplicable Inte	Local Office To Be Contact Hearing / In Involvement Inmental / Planning Ingineering Request is From: DAYTON	CITY OF DAYTON CITY OF DAYTON CITY OF DAYTON CITY OF DAYTON By: By: By:	ivities:(Office)(Office)(Office)	503-864-222 503-864-222 503-864-222	1 (Phone) 1 (Phone) 1 (Phone) County

(5-2003)

		OJECT PRO Part 2 Project De							Key Number:		Jurisdiction:		parameter in the second se
*Mesodit*									0			0	
action:	n et a en t el e	ın Bridge (Cable-	Stat	ad C	Intion)				Region:	Area: Mid-V	Villamette Vi	alley	District:
Dayton Pi	euestria				onsultant A - Applica	nt E - B	Existing N	V - No		1			1
		Activity Respon	2011 and 5							Permits	and Clearan	es	
Surplus Property	N	Signs (Permanent)		С	Storm Sewer		С	Airpo	rt Clearance	N	Wetlands		С
Citizen's Advisory	N	Striping (Permanent)		Ν	Landscaping		С	Land Action	Use ns/Permits	С	Endangered Species		С
Photogrammetry	N	Project Signing		С	Irrigation		N	Flood	l Plain	С	Hazmat	***************************************	С
Reconnaissance Survey	С	Detour		N	Borrow Source		Ν	Buildi		С	Historic Resource	u da nydo ni dagani mira	С
Public Hearing	N	Illumination		С	Material Source		Ν	,	s Engrs/DSL ove/Fill	С	DEQ Indirect Source Air		N
Field Survey	C	RR Crossing		N	Disposal Source		И	Coas	t Guard	N	DEQ Non-Po Source Water		С
Vicinity Map	С	RR Protection		N	Local Agreement		S	Geole	ogy and Minerals	N	Archaeology Survey		С
Soils/Geotech Investigation	С	RR Separation		Ν	Sensitive Land		N	Signa	als Warrants	N	Noise Study		N
Hydraulic Study	С	RR Encroachment		Ν	Value Engineering		N	Utiliti (see	es below)	Y	Section4(F)	~~~	С
Utility Coordination	С	Utility Verify Vert Ho	ıriz	С									
		Right-Of -	Way						of Utilities: ver (PGE)				
Right-Of-Way Liaison			Acces	s Con	trol (Y/N)	Curr N	Propsd N	Pho	ne (Verizon)				
Acc	quisition	s			Relocations			1	ter (City) itary Sewer (	City)			
Simple No.		Complex No.	Bu	siness	No. Re	sidentia	No.						
N		N		N		2		D	esign Standards AASHTO	1	Speeds Exc MPH	eption	(Y/N) N
					Suggested E	ase D	esign	* 11					
Item		New Work Surface	(in)	Ove	er Existing Surface (in)			Item	1	1	Work Ov ace (in)	er Exis	sting Surfac (in)
Aggregate Base		8"											
AC Pavement		3"		<u> </u>					paragas pagas managas and pagas and paga				

				Struc	ures				
Structures	Length	Width	Height	Cost	Structure	Length	Width	Height	Cost
Ped/Bike Br	550' long	14' wide							
				<u></u>					



	Part 2 — Project Details (Page 2 of 2)		<b>Key No.:</b> 0	Jurisdic	tion: 0
∠CTION:	Dayton Pedestrian Bridge (Cable-Stayed Option)	Region:	Area: Mid-Willamette	Valley	District:

#### Segment of Alternative 1:

Comments on Segment or Alternative:

Existing	g (below)		Units In:	Feet	Comme	nt on Ex	isting:	Timbe	r Pede	strian B	ridge o	only				
Bike Path	Side- Walk	Curb Type	1	Shoulder/ Bikelane		Lane 2	Lane 1	Median	Lane 1	Lane 2	Lane 3	Shoulder Bikelane		Curb Type	Side- Walk	Bike Path
				9'								<b>D</b> intoid ite		1,700	TTGIK	1001
		***************************************		14'					***************************************					***************************************		
Propos	ed (abov	e)	Units In:	Feet	Comme	nt on Pro	oposed:	Concre	ete Ped	d/Bike E	Bridge		······································		hannes and the second s	

#### Segment or Alternative 2:

Comments on Segment or Alternative:

Existing	j (below)		Units In:	Feet	Comme	nt on Ex	isting:	Testing	g seco	nd alter	native				
Bike Path	Side- Walk	Curb Type	Parking	Shoulder/ Bikelane		Lane 2	Lane 1	Median	Lane 1	Lane 2	Lane 3	Shoulder, Bikelane	 Curb Type	Side- Walk	Bike Path
													***************************************		
									***************************************	.,					
Propos	ed (abov	9)	Units In:	Feet	Comme	nt on Pro	pposed:								

#### Segment or Alternative 3:

Comments on Segment or Alternative:

ristin	ig (below)	)	Units In:		Comme	nt on Ex	isting:									
ke	Side-	Curb	Parking	Shoulder/	Lane	Lane	Lane	Median	Lane	Lane	Lane	Shoulder	Parking	Curb	Side-	Bike
Path	Walk	Туре		Bikelane	3	2	1		1	2	3	Bikelane		Туре	Walk	Path
-	<del> </del>	<del> </del>	<del> </del>													<del> </del>
Propos	sed (abov	e)	Units In:	*	Comme	nt on Pro	oposed:	**************************************	····			A	<del>laan ay amadaan y</del>	<del></del>	B-00-2-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	h

#### Segment or Alternative 4:

Comments on Segment or Alternative:

Existing	g (below)		Units In:		Comme	nt on Ex	isting:									
Bike	Side-	Curb	Parking	Shoulder/	Lane	Lane	Lane	Median	Lane	Lane	Lane	Shoulder	Parking	Curb	Side-	Bike
Path	Walk	Type		Bikelane	3	2	1		1	2	3	BIKELANE		Туре	Walk	Path
		***************************************	ļ					-							<b></b>	<u> </u>
Proposi	ed (Abov	e)	Units In:	Appropriate the second	Comme	nt on Pro	oposed:	**************************************								

Bridge Prospectus Cost Estimate

	DITC	ige Prospecti	75 CO		16		
				NBIS			
			Br	idge No.			
Applicant:		of Dayton	<del></del> ,			15 17 (8.55)	District
Project / Section		PEDESTRIAN BR	t	Region:	Are		District:
1,0,000,7	(Cab	le Stayed)		2	Mid-Willam	iette Valley	3
New Bridge / Roadway Con	figuration:		Existi	ng Bridge:			
eft Side Rail		feet		e Length		540 f	eet
eft Sidewalk		feet		ge Width		9 f	eet
Shoulder		feet	Area			4860 s	quare fee
ane 2		feet					•
ane 1	5	feet	New	AC Top Wi	dth	14 f	eet
CL		feet	New	AC Depth			nches
Lane 1	5	feet	New	Base Depth	1	8 i	nches
Lane 2	0	feet	Proje	ect Length		900 f	
Shoulder	0	feet		Road Work	Length	350 f	eet
Right Sidewalk	_	feet		Side Slope		1.5	
Right Side Rail	2.5	feet		lvg Width		14.375 f	
				Avg Width		15.75 f	
Bridge Length		feet		alt Density			bs/cu ft
Bridge Width		feet		Density			bs/cu ft
New Area	8250	square feet		AC Receive		91.7 t	
			New	Base Requi	red	260.9 t	ons
	<del></del>		<del></del>	n :		<u> </u>	
COST ESTIMATE:	Quantity	Unit		Price		Cost (\$x	(1000s)
				per unit			
Right-of-Way	Dl	Acre	\$	100,000		\$50	
L4	==Roadway	_	•	400.074		\$400	
Mobilization	1	lump sum lump sum	<i></i>	400,274 39,631		\$400 \$40	
Temporary Protection	i 1		<b>6</b>	39,239		<b>\$</b> 39	
Clear & Grub	1	lump sum lump sum	ę ę	38,850		\$39	
Erosion Control	1	lump sum	¢	25,000		\$25	
Riparlan Mitigation Temp Conc Barrier	,	feet	¢	25,000		\$0	
General Excavation	300	cubic yards	\$	20		<b>\$</b> 6	
Embankment in Place		cubic yards	\$	15		\$5	
ambananen in ridoo	000	200.0 / 0.03	\$	120		\$0	
Temp Impact Atten.		each	\$	2,000		\$0	
Aggregate Base	261		\$	20		\$5	
Asphalt Concrete	92	tons	\$	85		\$8	
Riprap		cubic yards	\$	75		\$0	
Guardrail, Type 2A		feet	\$	15		\$0	
Guardrail, Type 3		feet	\$	45		\$0	
Guardrail Trans		each	\$	2,000		\$0	
Flared Terminals		each		2,100		\$0	
		,	Subt	rotal Roadw	ay	\$567	
				.00		£2.200	
Structures	8,250	square feet	\$	400		\$3,300	
Bridge End Panels		square yard	Þ	275		\$0 \$145	
Extra/Drilled Shafts (5%)	1		\$ \$ \$ \$ \$ \$ \$	165,000		\$165 \$0	
Temp Detour (Const & Remove)	0.500	lump sum	<b>\$</b>	60		\$150	
Work Bridge (25x4100)	2,500	square feet square feet	<b>Þ</b>	75		\$130	
Retaining Walls	1	square reer lump sum	ø e	100,000		\$100	
Illumination		square feet	\$ \$	25.00		\$122	
Remove Existing Bridge	4,000	lump sum	Φ	23,00		\$0	
		lump sum				\$0 \$0	
		-0111p 30111	Sub	total Structu	res	\$3,837	<del></del>
				total Constru		\$4,403	
	==Engineeri	ng==					
	15	percent of consti				\$660	
Construction Engineering		percent of const	ruction			\$1,101	
Construction Engineering Contingency	25	percent or const					
Contingency	25	percent of const		total Const.	Eng.	\$1,761	
Contingency Preliminary Engineering			Sub	total Const.	Eng.		
Contingency Preliminary Engineering Consultant	14	percent of const	Sub ruction	total Const.	Eng.	\$616	
Contingency Preliminary Engineering Consultant State	14	percent of consti	Sub- ruction ruction	total Const.	Eng.	\$616 \$44	
Contingency Preliminary Engineering Consultant	14	percent of const	Sub- ruction ruction ruction		Eng.	\$616 \$44 \$44	
Contingency Preliminary Engineering Consultant State	14	percent of consti	Sub- ruction ruction ruction Sub	total Const. total PE	Eng.	\$616 \$44	