

**CAPITAL IMPROVEMENT PROGRAM**  
**City of Missoula CIP Project Request Form FY 2017-2021**

Program Category:	Project Title:		15 Project #	16 Project #	17 Project #
Wastewater Facilities	Old Hwy 93 Sewer Interceptor		WW-01	WW-01	WW-01

**Description and justification of project and funding sources:**

The Old Highway 93 Sewer Interceptor project connects the Linda Vista/Miller Creek Area force main system to the existing Reserve Street piping. This project consists of design and construction of a 14 inch diameter force main in the north boulevard in Brooks Street, adjacent to Pizza Hut, within the Old Highway 93 right-of-way, and finally along the west side of Reserve Street right-of-way.

There is an existing 10 inch diameter gravity main in Brooks Street that is currently receiving the Lower Miller Creek Road lift station effluent and will be at capacity with the addition of approximately 400 gpm of sewage. The Old Highway 93 Sewer Interceptor will be required at this time to accept additional sewage flows from the Lower Miller Creek Road lift station. Major area subdivisions are in the planning stages now, with construction of hundreds of homes likely to happen in the next couple of years, that will utilize the remaining capacity in the existing 10 inch diameter gravity main. The Linda Vista STEP system conversion cannot occur until this project is completed since conversion of STEP systems will further reduce capacity in the existing 10 inch diameter gravity main.

**Is this equipment prioritized on an equipment replacement schedule?**

Yes	No	NA
	x	

**Are there any site requirements:**

**How is this project going to be funded:**

REVENUE	Funding Source	Accounting Code	FY17	FY18	FY19	FY20	FY21	Funded in Prior Years
	Sewer Development Fund		654,253					56,949
			654,253	-	-	-	-	56,949

**How is this project going to be spent:**

EXPENSE	Budgeted Funds	Accounting Code	FY17	FY18	FY19	FY20	FY21	Spent in Prior Years
	A. Land Cost B. Construction Cost C. Contingencies (10% of B) D. Design & Engineering (15% of B) E. Percent for Art (1% of B) F. Equipment Costs G. Other		565,437 56,500 32,316					56,949
			654,253	-	-	-	-	56,949

**Does this project have any additional impact on the operating budget:**

OPERATING BUDGET COSTS	Expense Object	Accounting Code	FY17	FY18	FY19	FY20	FY21	Spent in Prior Years
	Personnel Supplies Purchased Services Fixed Charges Capital Outlay Debt Service							
			-	-	-	-	-	-

Description of additional operating budget impact:

Responsible Person:	Responsible Department:	Date Submitted to Finance	Today's Date and Time	Preparer's Initials	Total Score
Kevin Slovarp	Development Services	3/23/2016	4/19/16 14:27	AJD	49

## CAPITAL IMPROVEMENT PROGRAM

### Project Rating

(See C.I.P. Instructions For Explanation of Criteria)

Program Category:	Project Title:				
Wastewater Facilities	Old Hwy 93 Sewer Interceptor			10 Project # WW-01	
Qualitative Analysis	Yes	No	Comments		
1. Is the project necessary to meet federal, state, or local legal requirements? This criterion includes projects mandated by Court Order to meet requirements of law or other requirements. Of special concern is that the project be accessible to the handicapped.	X				
2. Is the project necessary to fulfill a contractual requirement? This criterion includes Federal or State grants which require local participation. Indicate the Grant name and number in the comment column.	X				
3. Is this project urgently required? Will delay result in curtailment of an essential service? This statement should be checked "Yes" only if an emergency is clearly indicated; otherwise, answer "No". If "Yes", be sure to give full justification.	X		This project is timely as future developments in the Linda Vista and Miller Creek areas are being constructed. Once homes are built and connected to sewer they will reduce the capacity in the existing system to a point where no other connections will be allowed. This sewer main needs to be designed and constructed prior to reaching capacity in the existing sewer mains.		
4. Does the project provide for and/or improve public health and/or public safety? This criterion should be answered "No" unless public health and/or safety can be shown to be an urgent or critical factor.	X				
Quantitative Analysis	Raw Score Range	Comments		Weight	Total Score
5. Does the project result in maximum benefit to the community from the investment dollar?	(0-3) 3	The project allows for expansion of the wastewater system to serve future development in the Linda Vista/Miller Creek areas.		5	15
6. Does the project require speedy implementation in order to assure its maximum effectiveness?	(0-3) 3	The project will be necessary once the capacity in the current system is attained.		4	12
7. Does the project conserve energy, cultural or natural resources, or reduce pollution?	(0-3) 2	As part of the voluntary nutrient reduction plan, future homes will be able to connect to the sewage system and the wastewater treatment plant will treat the effluent.		3	6
8. Does the project improve or expand upon essential City services where such services are recognized and accepted as being necessary and effective?	(0-2) 2	The project expands the current wastewater collection system. The wastewater treatment plant has the capacity to treat the effluent from the Linda Vista/Miller Creek areas.		4	8
9. Does the project specifically relate to the City's strategic planning priorities or other plans?	(0-3) 2	Sanitary sewer has been identified as necessary to a livable community.		4	8
Total Score				49	

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WW-01	Old Hwy 93 Sewer Interceptor

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Description	Quantity	Unit	Unit Price (\$/unit)	Total (\$)	Helpful Comments
<b>Division #1 - Special Conditions</b>					
General Conditions	1	LS	\$ 40,000	\$40,000	
Division #2 - Site Work					
14' POC	2	EA	\$ 2,500	\$5,000	
12' POC	2	EA	\$ 2,500	\$5,000	
14' POC	1	EA	\$ 1,500	\$1,500	
14' Foreman PVC DR 26	3.900	LE	\$ 80	\$332,720	Reb7.5
12' Foreman	178	LE	\$ 80	\$14,240	
4' Foreman	178	LE	\$ 500	\$12,400	
14' Pipe Valve	1	EA	\$ 5,000	\$5,000	
14' Check Valve	1	EA	\$ 1,500	\$1,500	
14' 90 Elbow	1	EA	\$ 500	\$500	
14' Tee	1	EA	\$ 700	\$700	
Air Relief Valve	1	EA	\$ 4,000	\$4,000	
Utility Vault	1	EA	\$ 4,000	\$4,000	
Site Cleaning	1	LS	\$ 1,000	\$1,000	
Surface Restoration	1	LS	\$ 5,000	\$5,000	
Tree Removal and Replace	4	EA	\$ 1,000	\$4,000	
4' asphalt pavement	1	EA	\$7,357	\$7,357	
Traffic Control	1	LS	\$ 3,000	\$3,000	
DEM Sidewalk	470	SCYD	\$ 4.00	\$1,880	
DEM Curb and Gutter	100	LNFT	\$3.50	\$350	
DEM Driveway	606	SCYD	\$8.00	\$4,848	
				<b>SUBTOTAL</b>	<b>\$ 7,076</b>
<b>Division #3 - Concrete</b>					
Miscellaneous Concrete	1	LS	\$ 1,000.00	\$1,000.00	
Sidewalk Rehab, 4"	1	EA	\$15,802.47	\$15,802.47	
Concrete Driveway Approach Rehab, 6"	1	EA	\$29,777.78	\$29,777.78	
Division #8 - Doors And Windows					
Access Hatch	1	LS	\$ 3,500.00	\$3,500.00	
Division #9 - Finishes					
Manhole Coatings	1	SF	\$ 15,000	\$15,000	
Division # 10 Specialties					
Air Relief and Odor Control	1	LS	\$ 4,000.00	\$4,000.00	
Drainage and Erosion Control	1	EA	\$ 45,000.00	\$45,000.00	
Connection to Discharge Manhole	1	EA	\$ 2,000.00	\$2,000.00	
14' foreman to empty Piggng station	25	LF	\$ 85.00	\$2,125.00	
Division # Permits					
City Excavation Permits	1	LS	\$3,874.00	\$3,874.00	<a href="http://mt.missouri1.cityplus.com/DocumentCenter/View/2136">http://mt.missouri1.cityplus.com/DocumentCenter/View/2136</a>
MPDES Storm Water Permit for Construction	1	LS	900.00	\$900.00	<a href="http://deq.mt.gov/water/mpdes/stormwaterconstruction.msw">http://deq.mt.gov/water/mpdes/stormwaterconstruction.msw</a>
				<b>Subtotal</b>	<b>\$565.437</b>
Miscellaneous Items and Contingencies	10%		\$56,500		
Engineering/Legal/Fiscal	20%		\$124,387		
				<b>Total Estimated Construction Cost</b>	<b>\$746,325</b>



Year 2006, December 1.20 1.27  
Index Ratio from 2006 7645.56 6693.94  
Index Ratio from 2003 1.360036413290 1.49947564513575

<http://www.enr.com/economics>

Asphalt: Road 4 inch thick 5 driveway approaches, 10 feet wide patch	1670
X Old Hwy 93 8'x30'	240
X Post Siding 8'x70'	550
	Subtotal
	2470 sq ft
Asphalt: Bike path 2 inch thick X Bike Path 8x8'	64
Along Bike Path 7.5 x 121	907.5
	Subtotal
	972 sq ft
1314 SOYD- inc 147131112 lbs sqyd inch	
	17.3 Cubic Yard
	800 \$/yd3

Concrete Driveway Approach Rehab, 6 inch	\$29,777.78
0.5 ft thick	
Left west entrance	286 sq ft
Left east entrance	286 sq ft
Side walk in entrances	750 sq ft
	2010 223.333333333333333333 sq yd
	37.2 Cubic Yard
	800 \$/yd3

<b>City Excavation Permit</b>	
3.95	Direct Line Cost
2400	Max LF for Base cost
0.40	Cost LF over 2400
\$ 3,874.00	Permit cost for 3950 feet