

**2018-2022**

**FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM  
 SANITARY PROJECTS TOTALS**

	2018	2019	2020	2021	2022	Category Totals
Design/Engineering	\$211,700	\$643,100	\$230,400	\$457,100	\$250,700	\$1,793,000
Right-of-Way	\$0	\$27,000	\$164,800	\$0	\$30,000	\$221,800
Utilities	\$100,000	\$93,000	\$155,100	\$0	\$20,000	\$368,100
Construction	\$794,300	\$834,100	\$4,410,900	\$919,800	\$2,409,800	\$9,368,900
Contract Admin./Inspection	\$69,300	\$72,800	\$500,600	\$80,300	\$257,700	\$980,700
<b>Yearly Totals</b>	<b>\$1,175,300</b>	<b>\$1,670,000</b>	<b>\$5,461,800</b>	<b>\$1,457,200</b>	<b>\$2,968,200</b>	

Source of Funding Sanitary Sewer Funds 267/268

**Grand Total = \$12,732,500**

**Portion of Cost to be funded by Development**

	2018	2019	2020	2021	2022	Category Totals
Design/Engineering	\$0	\$422,300	\$0	\$216,600	\$0	\$638,900
Right-of-Way	\$0	\$27,000	\$164,800	\$0	\$30,000	\$221,800
Utilities	\$0	\$93,000	\$155,100	\$0	\$20,000	\$268,100
Construction	\$0	\$0	\$3,535,000	\$0	\$1,443,800	\$4,978,800
Contract Admin./Inspection	\$0	\$0	\$424,200	\$0	\$173,300	\$597,500
<b>Yearly Totals</b>	<b>\$0</b>	<b>\$542,300</b>	<b>\$4,279,100</b>	<b>\$216,600</b>	<b>\$1,667,100</b>	

Source of Funding Sanitary Sewer Funds 267 & 268

**Grand Total = \$6,705,100**

Percentage 53%

**Sanitary projects required due OEPA Findings & Orders or NPDES II**

	2018	2019	2020	2021	2022	Category Totals
Design/Engineering	\$211,700	\$220,800	\$230,400	\$240,500	\$250,700	\$1,154,100
Right-of-Way	\$0	\$0	\$0	\$0	\$0	\$0
Utilities	\$60,000	\$0	\$0	\$0	\$0	\$60,000
Construction	\$794,300	\$834,100	\$875,900	\$919,800	\$966,000	\$4,390,100
Contract Admin./Inspection	\$69,300	\$72,800	\$76,400	\$80,300	\$84,400	\$383,200
<b>Yearly Totals</b>	<b>\$1,135,300</b>	<b>\$1,127,700</b>	<b>\$1,182,700</b>	<b>\$1,240,600</b>	<b>\$1,301,100</b>	

Source of Funding Sanitary Sewer Funds 267 & 268

**Grand Total = \$5,987,400**

**2018-2022  
 FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM  
 SANITARY PROJECTS TOTALS**

Project	Total Cost	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022	Fund Name	Fund Number
S-20 Comprehensive Maintenance and Operations Plan Including Annual Inflow & Infiltration Abatement Program								
Design/Engineering	\$663,300	\$120,000	\$126,000	\$132,300	\$139,000	\$146,000		
Right-of-Way								
Utilities								
Priority Construction								
I Contract Admin./Inspection								
<b>TOTAL</b>	<b>\$663,300</b>	<b>\$120,000</b>	<b>\$126,000</b>	<b>\$132,300</b>	<b>\$139,000</b>	<b>\$146,000</b>	Sewer Revenue	304
S-28(D) Upper Scioto West (Hayden Run) Sub S-20 Trunk Sanitary Sewer								
Design/Engineering	\$216,000		\$216,000					
Right-of-Way	\$164,800			\$164,800				
Utilities	\$232,100		\$77,000	\$155,100				
Priority Construction	\$2,160,000			\$2,160,000				
I Contract Admin./Inspection	\$259,200			\$259,200				
<b>TOTAL</b>	<b>\$3,032,100</b>		<b>\$293,000</b>	<b>\$2,739,100</b>			Sewer Revenue	268
S-31 Lift Station Rehabilitation and Replacement Program								
Design/Engineering	\$263,200	\$49,500	\$51,000	\$52,600	\$54,200	\$55,900		
Right-of-Way								
Utilities								
Priority Construction	\$2,735,500	\$495,000	\$519,800	\$545,800	\$573,100	\$601,800		
I Contract Admin./Inspection	\$219,000	\$39,600	\$41,600	\$43,700	\$45,900	\$48,200		
<b>TOTAL</b>	<b>\$3,217,700</b>	<b>\$584,100</b>	<b>\$612,400</b>	<b>\$642,100</b>	<b>\$673,200</b>	<b>\$705,900</b>	Sewer Revenue	268
S-32(D) Big Darby Lift Stations and Force Main								
Design/Engineering	\$422,900		\$206,300		\$216,600			
Land and Easements	\$57,000		\$27,000			\$30,000		
Utilities	\$36,000		\$16,000			\$20,000		
Priority Construction	\$2,818,800			\$1,375,000		\$1,443,800		
I Contract Admin./Inspection	\$338,300			\$165,000		\$173,300		
<b>TOTAL</b>	<b>\$3,673,000</b>		<b>\$249,300</b>	<b>\$1,540,000</b>	<b>\$216,600</b>	<b>\$1,667,100</b>	Sewer Revenue	268
S-33 Annual Sanitary Sewer Cleaning & CCTV & Rehabilitation Program								
Design/Engineering	\$136,300	\$25,600	\$26,400	\$27,200	\$28,100	\$29,000		
Right-of-Way								
Utilities	\$60,000	\$60,000						
Priority Construction	\$784,000	\$141,800	\$148,900	\$156,400	\$164,300	\$172,600		
I Contract Admin./Inspection	\$94,400	\$17,100	\$17,900	\$18,800	\$19,800	\$20,800		
<b>TOTAL</b>	<b>\$1,074,700</b>	<b>\$244,500</b>	<b>\$193,200</b>	<b>\$202,400</b>	<b>\$212,200</b>	<b>\$222,400</b>	Sewer Revenue	268/304
S-37 Annual Sanitary Sewer Lining Program								
Design/Engineering	\$91,300	\$16,600	\$17,400	\$18,300	\$19,200	\$19,800		
Right-of-Way								
Utilities								
Priority Construction	\$870,600	\$157,500	\$165,400	\$173,700	\$182,400	\$191,600		
I Contract Admin./Inspection	\$69,800	\$12,600	\$13,300	\$13,900	\$14,600	\$15,400		

**2018-2022**  
**FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM**  
**SANITARY PROJECTS TOTALS**

Project	Total Cost	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022	Fund Name	Fund Number
TOTAL	\$1,031,700	\$186,700	\$196,100	\$205,900	\$216,200	\$226,800	Sewer Revenue	268

**C.I.P. No. S-20**

**Comprehensive Maintenance and Operations Plan  
Including Annual Inflow & Infiltration Abatement Program**

This project is an annual program necessary to identify sources of storm water/clean water infiltration and inflow (I & I) into the sanitary sewer system in areas of the City developed prior to 1980. Increased amounts of clean water introduced into the sanitary sewers during and after a rain event reduce the capacity of the sewers for sewage, increases the likelihood for basement backups to occur, and increases the volume of wastewater to be treated. Columbus Wet Management Program will drive the need for this as well as Capacity Management and Operation Maintenance (CMOM).

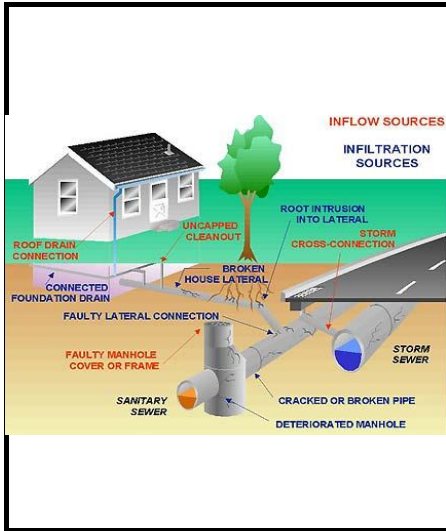
Since 1995, this project has attempted to mitigate some of the problems in sections of the City developed prior to 1980. These efforts have consisted of cleaning and televising sanitary sewers, sealing all manholes and deficient pipe joints, repairing cracks in pipes, treating & cutting roots, and eliminating illegal connections to the sanitary sewer system. However, persistent sanitary sewer backups into basements are still occurring. In 2003, a consultant was hired to study the sanitary sewers in Old Hilliard, and the Conklin, Roman Hill, and Williamsburg subdivisions. This study consisted of reviewing past incidents of basement backups, an on-site review of the sanitary sewer system in these subdivisions, and the monitoring of sewage flow in the sewer system in the spring of 2004 and summer 2005. Results of the sewer flow monitoring detected increased flows in the system during and after rainfall events. Based upon the nature and characteristic of these flow increases, the consultant has a good understanding of the source of the I & I into the sanitary sewer system. However, additional testing and studies are necessary to definitively identify these sources.

The proposed program established for identifying and mitigating some of these storm water I & I sources consists of preliminary studies (such as those undertaken in 2003 as described above), follow-up studies, and capital improvement projects to mitigate the clean water sources that are identified. It is the City's intent to undertake follow-up studies and begin some capital improvement mitigation projects in 2009 for the above subdivisions studied in 2004-05, while also proceeding with preliminary studies in some additional older subdivisions. Each successive year of the program would follow this plan, with follow-up studies and capital improvement projects being undertaken in subdivisions that have had preliminary studies conducted previously, as well as proceeding with preliminary studies on additional subdivisions. 2009 included \$27,000 for sanitary drain fix for Hilliard City Pools. 2015 includes design funds to develop plans for necessary sanitary sewer projects.

**2018 - \$120,000**

**2019-22 - 5 percent increase per year.**

Location Map  
(No Scale)



Figures below are for 5 year program  
uses current year dollars

Design/Engineering	\$663,300
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
<b>Total</b>	<b>\$663,300</b>

Companion C.I.P.'s  
S-31; S-33

Authorizing Legislation  
Annual Appropriation Ordinance

Funding Source

Department	408
Fund Name	Sewer Revenue
Fund Number	304

Project Origin  
2004 CIP/CIB  
Priority Level: I

	Fiscal Year = 2018				
	2018	2019	2020	2021	2022
Design/Engineering	\$120,000	\$126,000	\$132,300	\$139,000	\$146,000
Right-of-Way					
Utilities					
Construction					
Contract Admin./Inspection					

**C.I.P. No. S-28(D)**

**Upper Scioto West (Hayden Run) Sub Trunk Sanitary Sewer**

In 2005, this project constructed a portion of a new sanitary sewer trunk line from its existing terminus within the Scioto West/Hayden Run tributary area at the northeast corner of Hayden Run Road and Edwards Farms Drive west and north to the intersection of Britton Parkway and Riggins Ct. Private development along Riggins Road has now extended this trunk sewer to the west right-of-way of Wilcox Road.

In 2016, this sewer was extended westward to the City corporation line as part of the Riggins Road Extension (CIP T-135). From the City corporation line, development in the City of Columbus (White parcel) will extend the sewer to a point on the east side of Avery Road just north of the CSX Railroad.

The Upper Scioto West Sanitary Sub Trunk will serve areas west of the above terminus at Avery Road and the railroad track. This Sub Trunk will serve proposed developments along Leppert, Cosgray, and Elliott Roads. Extension of this sanitary trunk line will likely be done in phases and portions may be built by private developers or by the City. A new regional lift station will be needed on the east side of Leppert Road, and will pump to the existing lift station on Avery Road just south of Hayden Run Road (Hayden Run lift station).

This project includes replacing the existing 25-year old Hayden Run lift station to accommodate the growth to the west, as well as constructing a new force main to pump sewer to the terminus of the Upper Scioto West Sub Trunk just north of the railroad on the east side of Avery Road. This force main will need to be bored under Hayden Run Road, Hayden Run Creek, and the CSX Railroad. This cost paid by developer through new community authority water and sanitary sewer capacity fees and an additional \$1,000 per sfu surcharge.

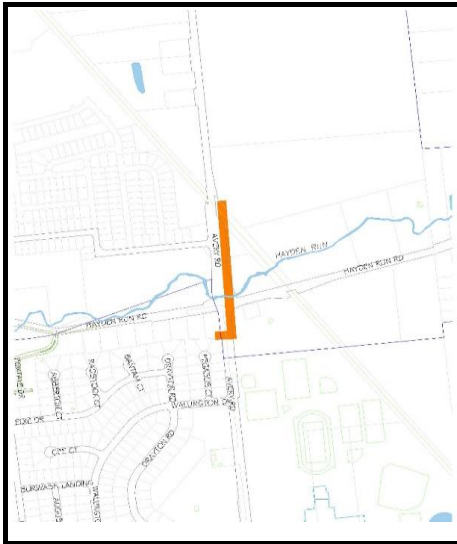
**2019 \$293,000**

Design and utility relocation of Hayden Run lift station replacement and new force main, White Farm Oversizing Cost and Gravity through Grener Site.

*Will need to add additional reimbursement for Phase II extension through the White Parcel. City share estimated at \$82,000.*

**2020** Construction of Hayden Run lift station and new force main and gravity sewer

Location Map  
(No Scale)



Figures below are for 5 year program  
uses current year dollars

Design/Engineering	\$216,000
Right-of-Way	\$164,800
Utilities	\$232,100
Construction	\$2,160,000
Contract Admin./Inspection	\$259,200
<b>Total</b>	<b>\$3,032,100</b>

Companion C.I.P.'s

T-65, T-117, & T-135; S-31
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Authorizing Legislation

Annual Appropriation Ordinance
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Funding Source

Department	408
Fund Name	Sewer Revenue
Fund Number	268

Project Origin

2009 CIP/CIB
Priority Level: I

	Fiscal Year = 2018				
	2018	2019	2020	2021	2022
Design/Engineering		\$216,000			
Right-of-Way			\$164,800		
Utilities		\$77,000	\$155,100		
Construction			\$2,160,000		
Contract Admin./Inspection			\$259,200		

**C.I.P. No. S-31**

**Lift Station Rehabilitation and Replacement Program**

The City of Hilliard has 15 lift/pump stations operating to allow for passage of both storm and sanitary sewer water where a gravity fall sewer is not possible or practical. These lift stations are typically very large, with deep wet wells that periodically require maintenance. The typical life of such stations does not exceed 25 years, and may be even less. Very large pumps, floats, and other mechanical items require maintenance or replacement on even more aggressive schedules. As the stations age, the City anticipates more maintenance and replacement dollars will be necessary to keep the systems in operation.

This sanitary sewer CIP program provides for one lift station rehabilitation per year.

**2018 - \$584,100**

**Hayden Run Lift Station reconstruction**

**2019-2022** - Annual Program using a 5 percent inflation factor

Location Map  
(No Scale)



Figures below are for 5 year program  
uses current year dollars

Design/Engineering	\$263,200
Right-of-Way	\$0
Utilities	\$0
Construction	\$2,735,500
Contract Admin./Inspection	\$219,000
<b>Total</b>	<b>\$3,217,700</b>

Companion C.I.P.'s  
**S-20 & S-28D**

Authorizing Legislation  
**Annual Appropriation Ordinance**

Funding Source

Department	408
Fund Name	Sewer Revenue
Fund Number	268

Project Origin  
**2004 CIP/CIB**  
Priority Level: I

	Fiscal Year = 2018				
	2018	2019	2020	2021	2022
Design/Engineering	\$49,500	\$51,000	\$52,600	\$54,200	\$55,900
Right-of-Way					
Utilities					
Construction	\$495,000	\$519,800	\$545,800	\$573,100	\$601,800
Contract Admin./Inspection	\$39,600	\$41,600	\$43,700	\$45,900	\$48,200

**C.I.P. No. S-32(D)**

**Big Darby Lift Stations and Force Main**

The Big Darby area of Brown Township is the current limits of the Hilliard Contract Service Area. In order to develop this area, three regional lift stations will be required. This program provides for the design and construction of these necessary improvements. These can be paid for with developer contributions, an add on capacity charge, and/or sewer capacity fee increases.

The current plan is now for 3 lift stations with the first built as part of the Heritage Preserve Development in 2014 with the second not likely before 2019-20. The third is likely not needed until 2021-22 or after. The need for these lift stations will be driven by development.

The third Lift Station (southern most) may not be needed if an area is purchased and transfer of development rights to another site is completed.

Location Map  
(No Scale)



Figures below are for 5 year program  
uses current year dollars

Design/Engineering	\$422,900
Land and Easements	\$57,000
Utilities	\$36,000
Construction	\$2,818,800
Contract Admin./Inspection	\$338,300
<b>Total</b>	<b>\$3,673,000</b>

Companion C.I.P.'s

None

Authorizing Legislation

Annual Appropriation Ordinance

Funding Source

Department	408
Fund Name	Sewer Revenue
Fund Number	268

Project Origin

2006 CIP/CIB  
Priority Level: I

	Fiscal Year = 2018				
	2018	2019	2020	2021	2022
Design/Engineering		\$206,300		\$216,600	
Land and Easements		\$27,000			\$30,000
Utilities		\$16,000			\$20,000
Construction			\$1,375,000		\$1,443,800
Contract Admin./Inspection			\$165,000		\$173,300

**C.I.P. No. S-33**

**Annual Sanitary Sewer Cleaning & CCTV & Rehabilitation Program**

This program is an annual maintenance program in which a portion of the City's sanitary sewer system will be cleaned and closed-circuit televised. The program has been set up to enable the City's entire sanitary sewer system to be cleaned and televised over a 7-year period. The program will be an on-going annual program, with one 7-year cycle being followed by another. The cost for each annual program takes into account that a portion of the sewers may need heavy cleaning (cleaning in excess of standard, normal cleaning methods). The annual program cost also allows for a fixed number of pipe repairs to be made at specific locations in the sewer as necessary.

With this program the City will identify sanitary sewers that need work beyond minor spot repairs. The program will then design the necessary sanitary sewer lining projects or other rehabilitation of the system as necessary.

2010 & 2011 - \$155,000; 2012 & 2013 - \$160,000,  
 2014 - \$162,500, 2015 - \$167,500; 2016 - \$175,500  
 2017 - \$184,500

**2018 - \$244,500**

Annual Sanitary Sewer Cleaning & CCTV Program

**Now includes \$60,000 to cover the cost of protecting an oil line companies facilities within the railroad easement as part of the 2017 program**

2019-22 a 5% annual inflation cost for future years.

Location Map  
(No Scale)



Figures below are for 5 year program  
uses current year dollars

Design/Engineering	\$136,300
Right-of-Way	\$0
Utilities	\$60,000
Construction	\$784,000
Contract Admin./Inspection	\$94,400
<b>Total</b>	<b>\$1,074,700</b>

Companion C.I.P.'s

S-20

Authorizing Legislation

Annual Appropriation Ordinance

Funding Source

Department	408
Fund Name	Sewer Revenue
Fund Number	268/304

Project Origin

2004 CIP/Cab  
Priority Level: I

	Fiscal Year = 2018				
	2018	2019	2020	2021	2022
Design/Engineering	\$25,600	\$26,400	\$27,200	\$28,100	\$29,000
Right-of-Way					
Utilities	\$60,000				
Construction	\$141,800	\$148,900	\$156,400	\$164,300	\$172,600
Contract Admin./Inspection	\$17,100	\$17,900	\$18,800	\$19,800	\$20,800



**C.I.P. No. S-37**  
**Annual Sanitary Sewer Lining Program**

This project includes lining of aging, damaged sanitary sewers that have been identified in our annual cleaning & televising program (S-33) as needing repair. The sewers identified for lining contain class 4 & 5 defects on a scale of 1-5, with 5 being the most severe defects. Sanitary sewer lining is a less intrusive and often less expensive alternative to excavating and replacing the existing sewer. Lining not only structurally rehabilitates the sewer, but it also abates any clean water inflow and infiltration currently entering the sanitary sewer through the pipe joints.

A specific lining project is lining a 30-inch sewer trunk under Hilliard Rome Road near Richlanne Drive. The sewer in this area is deteriorating due to two force mains along Hilliard Rome Road emptying into this gravity sewer. The City completed an emergency repair of this sewer along Hilliard Rome Road in 2016 after a portion of the sewer collapsed. In order to avoid a collapse of the sewer under Hilliard Rome Road, lining provides the best method for structurally rehabilitating this sewer without excavating in the roadway.

**2018: \$186,700** Lining of Class 4 & 5 defects in sewers  
 Design of 2019 lining project & Lining Norwich Street sewer

**2019-22** a 5% annual inflation cost for future years.

Location Map  
(No Scale)



Figures below are for 5 year program  
uses current year dollars

Design/Engineering	\$91,300
Right-of-Way	\$0
Utilities	\$0
Construction	\$870,600
Contract Admin./Inspection	\$69,800
<b>Total</b>	<b>\$1,031,700</b>

Companion C.I.P.'s

S-20

Authorizing Legislation

Annual Appropriation Ordinance

Funding Source

Department	408
Fund Name	Sewer Revenue
Fund Number	268

Project Origin

2004 CIP/CIB  
Priority Level: 1

	Fiscal Year = 2018				
	2018	2019	2020	2021	2022
Design/Engineering	\$16,600	\$17,400	\$18,300	\$19,200	\$19,800
Right-of-Way					
Utilities					
Construction	\$157,500	\$165,400	\$173,700	\$182,400	\$191,600
Contract Admin./Inspection	\$12,600	\$13,300	\$13,900	\$14,600	\$15,400

**C.I.P. No. S-41**  
**Scioto Darby Road Sanitary Force Main**

This project constructs a 10-inch sanitary sewer force main on the south side of Scioto Darby Road between Cosgray Road and Leppert Road. The sewer crosses to the north side of Scioto Darby Road at Leppert Road and connects to the Hoffman Farms sanitary lift station located at the northwest corner of the intersection.

This force main will support new development on the western side of Hilliard.

Design of this project was completed in 2016 as a utility relocation plan for the Scioto Darby & Leppert Improvement Project (CIP T21/T129)

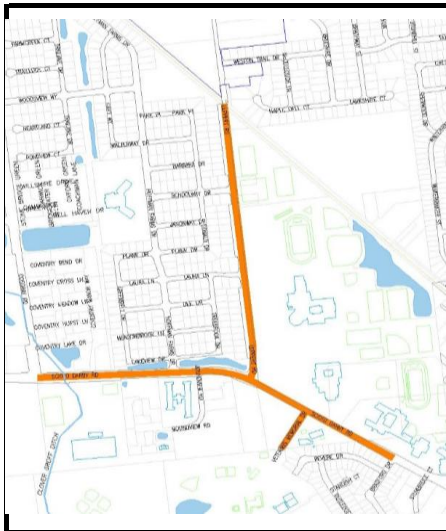
This project needs to be constructed prior to or concurrent with the Scioto Darby Road & Leppert Road Improvement project to avoid damaging new infrastructure that will be built with the street project.

2017 \$609,500 for constuction and CA/Inspection - Project completed in 2017

**2018 - \$40,000**

**Modification tot he 2017 contract due to utility relocatoin delay claims. The need is to pay our contractor. The City will work to recover our cost from the utility causing the dealy.**

Location Map  
(No Scale)



Figures below are for 5 year program  
using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$40,000
Construction	\$0
Contract Admin./Inspection	\$0
<b>Total</b>	<b>\$40,000</b>

Companion C.I.P.'s  
T21/129

Authorizing Legislation  
Annual CIP/CIB legislation

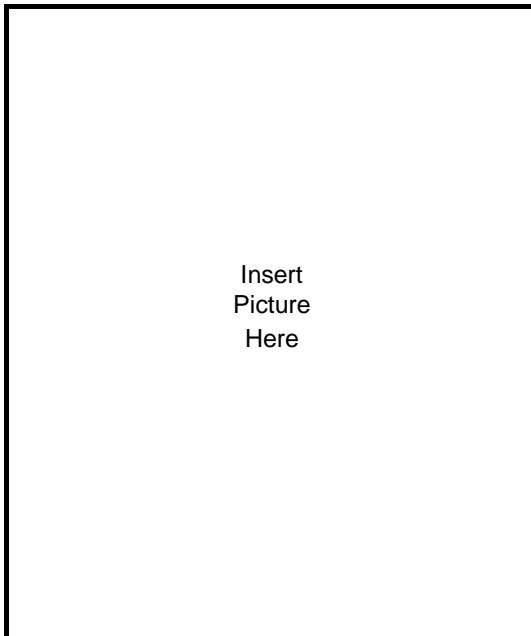
Funding Source  
Department  
Fund Name  
Fund Number

Project Origin  
Priority Level: I

	Fiscal Year = 2018				
	2018	2019	2020	2021	2022
Design/Engineering					
Right-of-Way					
Utilities	\$40,000				
Construction					
Contract Admin./Inspection					

C.I.P. No. S-  
PROJECT TITLE

Location Map  
(No Scale)



Insert  
Picture  
Here

Figures below are for 5 year program  
using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
Total	\$0

Companion C.I.P.'s

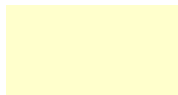


Authorizing Legislation



Funding Source

Department  
Fund Name  
Fund Number



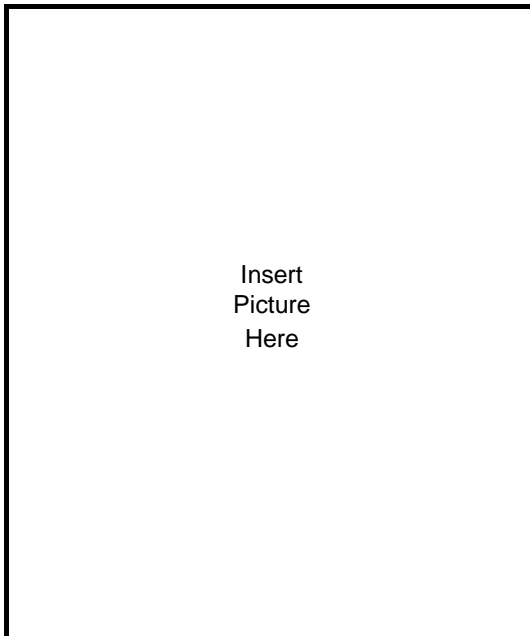
Project Origin



Priority Level: I

C.I.P. No. S-  
PROJECT TITLE

Location Map  
(No Scale)



Figures below are for 5 year program  
using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
Total	\$0

Companion C.I.P.'s

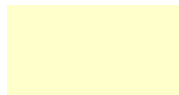


Authorizing Legislation



Funding Source

Department  
Fund Name  
Fund Number



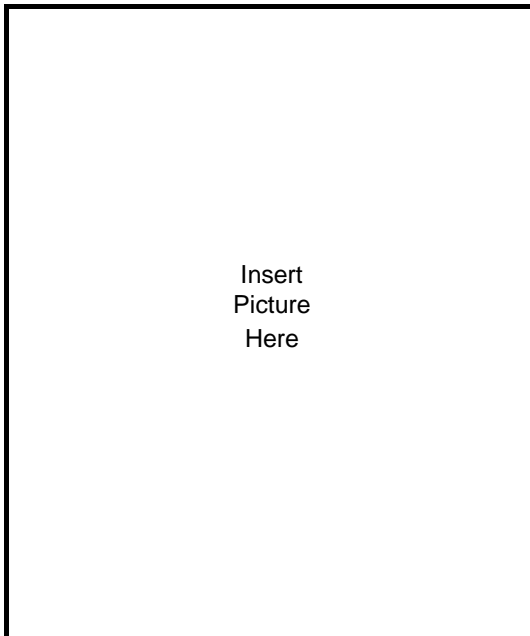
Project Origin



Priority Level: I

C.I.P. No. S-  
PROJECT TITLE

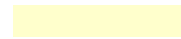
Location Map  
(No Scale)



Figures below are for 5 year program  
using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
Total	\$0

Companion C.I.P.'s



Authorizing Legislation



Funding Source

Department  
Fund Name  
Fund Number



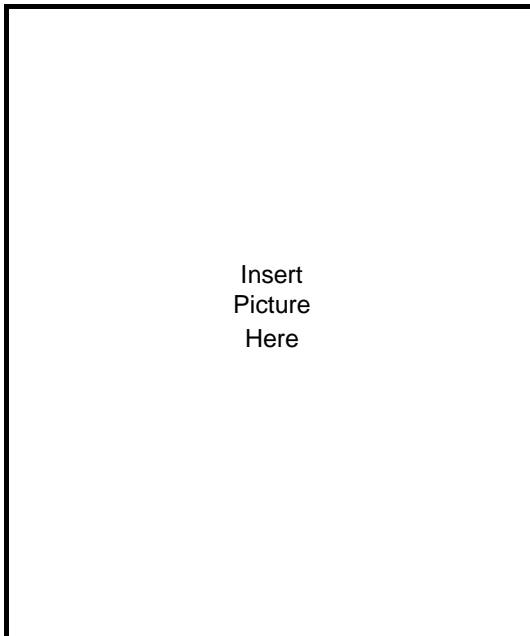
Project Origin



Priority Level: I

C.I.P. No. S-  
PROJECT TITLE

Location Map  
(No Scale)



Figures below are for 5 year program  
using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
Total	\$0

Companion C.I.P.'s

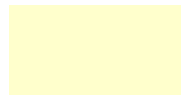


Authorizing Legislation



Funding Source

Department  
Fund Name  
Fund Number



Project Origin

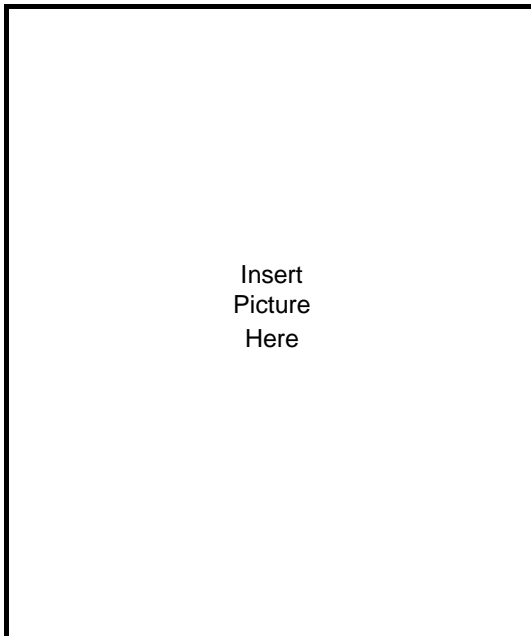


Priority Level: I

**C.I.P. No. S-**  
**PROJECT TITLE**

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Location Map  
 (No Scale)



Figures below are for 5 year program  
 using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
Total	\$0

Companion C.I.P.'s



Authorizing Legislation



Funding Source

Department  
 Fund Name  
 Fund Number



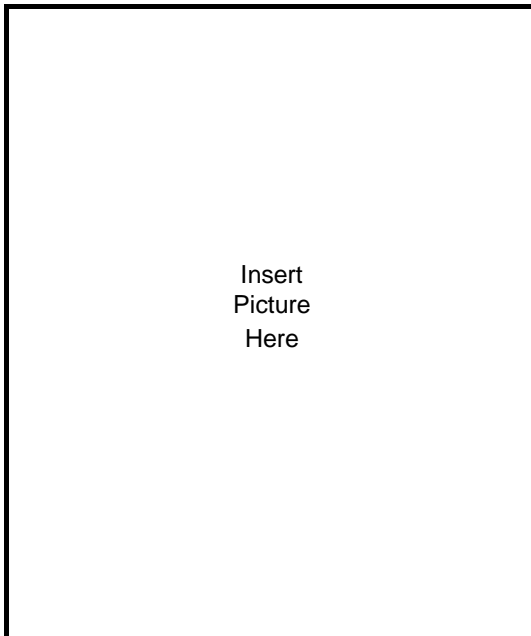
Project Origin



Priority Level: I

C.I.P. No. S-  
PROJECT TITLE

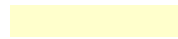
Location Map  
(No Scale)



Figures below are for 5 year program  
using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
Total	\$0

Companion C.I.P.'s



Authorizing Legislation



Funding Source

Department  
Fund Name  
Fund Number



Project Origin

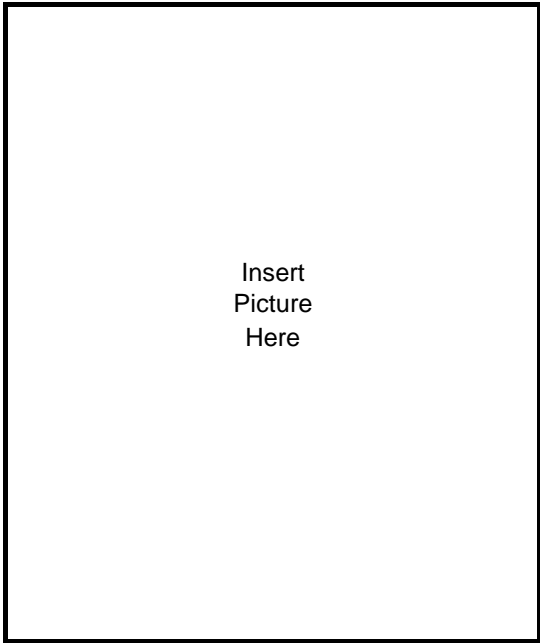


Priority Level: I



C.I.P. No. S-  
PROJECT TITLE

Location Map  
(No Scale)



Figures below are for 5 year program  
using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
Total	\$0

Companion C.I.P.'s



Authorizing Legislation

Annual Appropriation Ordinance

Funding Source

Department  
Fund Name  
Fund Number



Project Origin

20?? CIP/CIB  
Priority Level: I

**2012-2016  
 FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM  
 SANITARY PROJECTS TOTALS**

**C.I.P. No. S-24**

**Linda Road/Center Street Sanitary Sewer**

This project includes construction of a 15-inch sanitary sewer along Linda Road and Center Street just north of the Cemetery Road underpass. This project is a recommended improvement from the City's Sewer Master Plan. It will enable the City to divert some of the flows from the existing 10-inch sewer on Norwich St., thereby eliminating past sanitary sewer overflows (SSO) at the intersection of Cemetery Road and Norwich Street. This project will also allow the City to address Capacity, Management, Operations, and Maintenance (CMOM) issues in this portion of the sanitary sewer system. In the very near future, the City will have to develop a sanitary sewer management plan (similar to the storm water management plan described in CIP ST-32) to address CMOM issues throughout the City.

The cost for this project includes \$10,000 in 2010 for preliminary engineering,

**2013 - Design \$50,000**

**2014 - \$140,000 for easement acquisition and utility relocation,**

**2015 - \$616,000 for construction and contract administration/ inspection.**

**Likely not need if Cemetery Road relief sewer built.**

Location Map  
(No Scale)



<u>Figures below are for 5 year program</u> uses current year \$	
Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
<b>Total</b>	<b>\$0</b>

Companion C.I.P.'s  
S-20

Authorizing Legislation

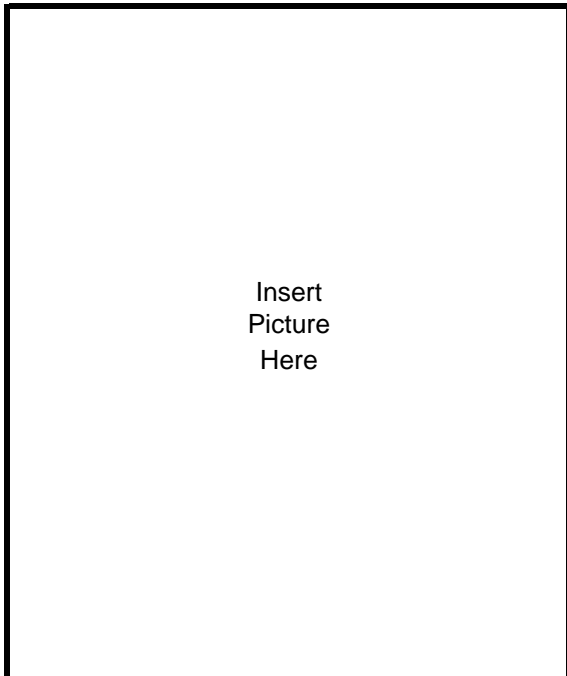
<u>Funding Source</u>	
Department	408
Fund Name	Sewer Revenue
Fund Number	268

Project Origin  
Priority Level: I

Fiscal Year =					2018
2018	2019	2020	2021	2022	

INFLOW & INFILTRATION ABATEMENT

Location Map  
(No Scale)



Figures below are for 5 year program  
using 2007 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
Total	\$0

Companion C.I.P.'s

S-20

Authorizing Legislation

Funding Source

Department 408  
Fund Name Sewer Cap & Rev.  
Fund Number 267/268

Project Origin

**2009-2013  
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM  
SANITARY PROJECTS TOTALS**

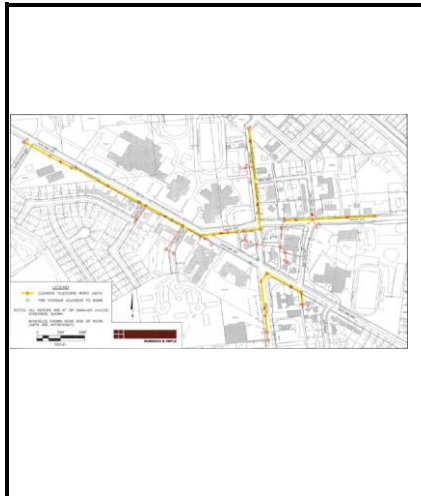
**C.I.P. No. S-35**

**Triangle Area Sanitary Sewer Rehabilitation**

In 2007, the inspection, cleaning and televising of the sanitary sewers within the limits of the Triangle project was conducted. The work limits included sanitary trunk sewers along Scioto Darby Road (west)/Cemetery Road from Veterans Memorial Drive to east of Lattimer Street, Main Street from just south of Madison Street to south of Scioto Darby Road, and Scioto Darby Road (east) from Main Street to High School Drive as shown highlighted on the location map. This project includes approximately 25 manholes and 5,000 feet of sanitary sewer. Based on the findings of the inspection, cleaning and televising activities, a construction project to line all portions of the sanitary sewers is required. The estimated cost to line all sanitary sewers to provide a new, seamless sewer is \$415,000 in 2009. Professional services for contract administration, inspection and testing is \$41,500.

The need for this work is being driven by the Triangle project. The majority of these existing sanitary sewers are either under existing or proposed pavement or curb. Due to the age and shallow depth of these sewers, there is a legitimate concern that construction activities of the proposed roadway improvements will jeopardize the structural integrity of these sewers, especially those sewers that are located under the proposed curb. Replacement of the existing sewers would be a costly and time-consuming venture. An alternative is to install a structural liner within these existing sewers, to preserve the integrity and, at the same time, reduce existing and future infiltration and inflow that may be contributed from these sewers.

Location Map  
(No Scale)



Figures below are for 5 year program  
using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
<b>Total</b>	<b>\$0</b>

Companion C.I.P.'s

T-63

Authorizing Legislation

Funding Source

Department	408
Fund Name	Sewer Revenue
Fund Number	268

Project Origin

Priority Level: II

Fiscal Year =					2018
2018	2019	2020	2021	2022	

**2008-2012  
 FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM  
 SANITARY PROJECTS TOTALS**

**C.I.P. No. S-36 (D & TIF)**

**Britton Parkway - Section 2, Phase 1 Sanitary Sewer**

This project will be designed and constructed in conjunction with the CIP T-68B Britton Parkway - Section 2 roadway project. It consists of new 12-inch and 16-inch sanitary sewers the new portion of Britton Parkway, south of Davidson Road within the Ansmil development.

Design for this project began in 2007 and is being paid for as part of the Columbus Campus, LLC as part of a development project, \$666,000 for construction, and \$53,280 for plan review and construction inspection services

Location Map  
(No Scale)



Figures below are for 5 year program  
using 2009 dollars

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
<b>Total</b>	<b>\$0</b>

Companion C.I.P.'s

T-68B, T-117, W-46, ST-36

Authorizing Legislation

Ord. 06-17

Funding Source

Department	
Fund Name	CDA & TIFF
Fund Number	

Project Origin

Fiscal Year =					2009
2009	2010	2011	2012	2013	
\$0					

**2012-2016  
 FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM  
 SANITARY PROJECTS TOTALS**

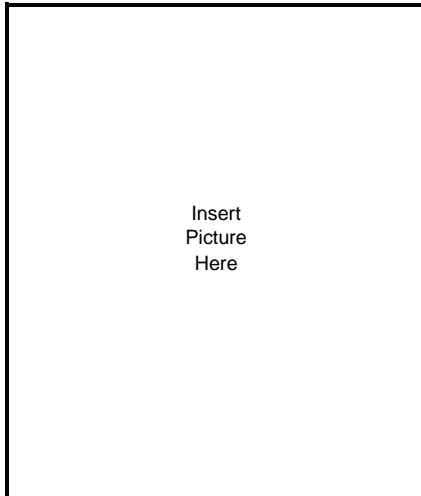
**C.I.P. No. S-38**

**Cemetery Road Relief Sewer**

This project entails the construction of a new 12-inch sanitary sewer to connect an existing 10-inch sanitary sewer at the Norwich Street/Cemetery Road intersection with another existing 18-inch sanitary sewer at the Leemar Drive/Cemetery Road intersection. The existing 10-inch sewer coming under the railroad underpass near the Norwich Street/Cemetery Road intersection turns and runs north on Norwich Street to the Linda Road intersection where it meets another 10-inch sanitary sewer on Norwich Street. From this point, the two sewers continue down Linda Road to the Hamilton Park area, the location of a former sewage treatment plant. The sewer then continues from the Hamilton Park area down Leemar Drive to Cemetery Road. This project essentially "fills the gap" on Cemetery Road and eliminates the current circuitous route of the sewers into Hamilton Park. In addition, this sewer has been designed as an attempt to eliminate the City's only reported sanitary sewer overflow near the southwest corner of the Norwich Street/Cemetery Road intersection. Elimination of sanitary sewer overflows is one of the goals of the Ohio Environmental Protection Agency's (OEPA) Director's Findings and Orders agreed upon by the City of Hilliard in December 2008.

The estimated cost for this project is \$370,000 +/- in 2012 for construction and for contract administration/inspection. This project will most likely eliminate the need for project CIP S-24, Linda Road/Center Street Sanitary Sewer.

Location Map  
(No Scale)



Figures below are for 5 year program  
uses current year \$

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
<b>Total</b>	<b>\$0</b>

Companion C.I.P.'s

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Authorizing Legislation

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Funding Source

Department	408
Fund Name	Sewer Revenue
Fund Number	268/304

Project Origin

Priority Level: I

Fiscal Year =					2018
2018	2019	2020	2021	2022	

**FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM  
 SANITARY PROJECTS TOTALS**

**C.I.P. No. S-39**

**MUNICIPAL PARK SPORTS FACILITY SANITARY SEWER**

This project includes approximately 250' of new sanitary sewer trunk to provide sanitary sewer to the new sports dome facility

**2014:**

\$41,000 construction, and \$5,000 for contract administration and construction inspection.

**Project was not constructed in 2013 so funds will need to be reappropriated as part of the 2014 CIB.**

Location Map  
 (No Scale)



Figures below are for 5 year program  
 uses current year \$

Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
<b>Total</b>	<b>\$0</b>

Companion C.I.P.'s  
 S-20

Authorizing Legislation

Funding Source

Department	408
Fund Name	Sewer Revenue
Fund Number	268

Project Origin  
 Priority Level: I

	Fiscal Year =				
	2015	2016	2017	2018	2019
Design/Engineering					
Right-of-Way					
Utilities					
Construction					
Contract Admin	\$0				

**C.I.P. No. S-40**

**RIGGINS ROAD SANITARY SEWER EXTENSION - HAYDEN RUN TRUNK**

Riggins Road was extended to Wilcox Road in 2011 as part of a development project. An interim 2-lane connection to Wilcox Road was temporarily built, which will function adequately in the short term.

The City of Columbus is working to complete the extension of Hayden Run Boulevard between Cosgray Road and Avery Road, including an overpass of the railroad. In 2013, the Franklin County Engineer's Office applied for and obtained a grant through the Ohio Public Works Commission to design and construct the extension of Hayden Run Boulevard/Riggins Road between Avery Road & Wilcox Road, including a roundabout at the intersection of Riggins Road/Wilcox Road.

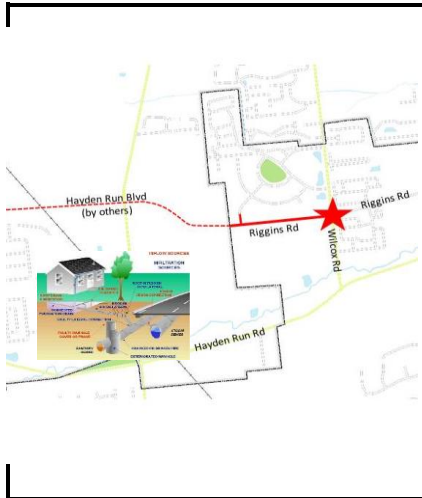
This project is an extension of the sanitary sewer along the Hilliard portion of Riggins Road to provide for sanitary sewer service to the adjacent land and to meet the needs of continued sanitary sewer service to the west in the Hayden Run sewer service area. The City is also responsible for the upsizing of the sanitary sewer through the Columbus section to have adequate capacity to serve properties west of this location that are tributary to the Hayden Run Trunk in Hilliard.

Design of this improvement began in 2014. Construction will likely begin in early 2016 and continue through 2016.

**2016 - \$ 436,000**

Projects consists of 1,750 lin ft. of 24-inch Sanitary Sewer. This project is funded using carryover funds from the 2015 CIB CIP line item – 304.532.55680.

Location Map  
(No Scale)



<u>Figures below are for 5 year program</u> uses current year dollars	
Design/Engineering	\$0
Right-of-Way	\$0
Utilities	\$0
Construction	\$0
Contract Admin./Inspection	\$0
<b>Total</b>	<b>\$0</b>

Companion C.I.P.'s  
T-135 & W-50

Authorizing Legislation

<u>Funding Source</u>	
Department	532
Fund Name	CIP
Fund Number	304

Project Origin  
Priority Level: I

	Fiscal Year = 2016				
	2016	2017	2018	2019	2020
Design/Engineering					
Right-of-Way					
Utilities					
Construction					
Contract Admin./Inspection					