

Attachment F

BMP Calculation



Ohio Department of Transportation - Office of Hydraulic Engineering

Post-Construction BMP Calculation Spreadsheet

Post Construction - Project Summary

Project Data

Units

Project EDA	20	acres
Is the Project Routine Maintenance per L&D Vol. 2, Sec. 1112.2	No	
BMPs Required?	BMPs Required	NA
Ain (New Impervious Area in New Permanent R/W)	0	acres
Does Entire Site Drain to Large River (>100 sq. miles)?	No	
Water Quality Treatment Required	Yes	
Water Quantity Treatment Required	No	

Treatment Percent and Treatment Requirement

Aix (Project EDA that is inside the existing right-of-way)	20	acres
Ain (New Impervious Area in New Permanent R/W)	0	acres
T% (Treatment Percent)	20.00	%
Treatment Requirement	4.00	acres

Attachment G

Environmental Mapping

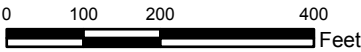
Ecological Resources Maps



Site Location Map

Legend

- Study Area
- Bat SWH within 100' EOP



HAM-Great Parks
Oasis Trail

Ecological Resources Map



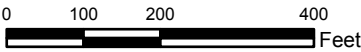
Date: Mar 2026	Approved by: MC	L&A No. 25-0353	Figure 3-a
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Site Location Map

Legend

-  Study Area
-  Bat SWH within 100' EOP



HAM-Great Parks
Oasis Trail

Ecological Resources Map



Date:
Mar 2026

Approved by:
MC

L&A No.
25-0353

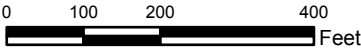
Figure
3-b



Site Location Map

Legend

- Study Area
- Bat SWH within 100' EOP
- Tunnel / Underpass
- Sample Point



HAM-Great Parks
Oasis Trail

Ecological Resources Map



Date: Mar 2026	Approved by: MC	L&A No. 25-0353	Figure 3-c
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R:\GIS\Projects\FY2025\05-0353 Arcade HAM-Great Parks Oasis Trail 122571\HAM-Great Parks Oasis Trail



Site Location Map

Legend

- Study Area
- Bat SWH within 100' EOP
- Tunnel / Underpass
- Sample Point



0 100 200 400 Feet

HAM-Great Parks
Oasis Trail

Ecological Resources Map



Date: Mar 2026	Approved by: MC	L&A No. 25-0353	Figure 3-d
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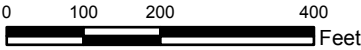
LINK-GIS/PDS, Esri, HERE, Garmin, NGA, USGS, NPS, Esri, HERE, Garmin, IPC, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Vantor



Site Location Map

Legend

- Study Area
- Bat SWH within 100' EOP



**HAM-Great Parks
Oasis Trail**

Ecological Resources Map

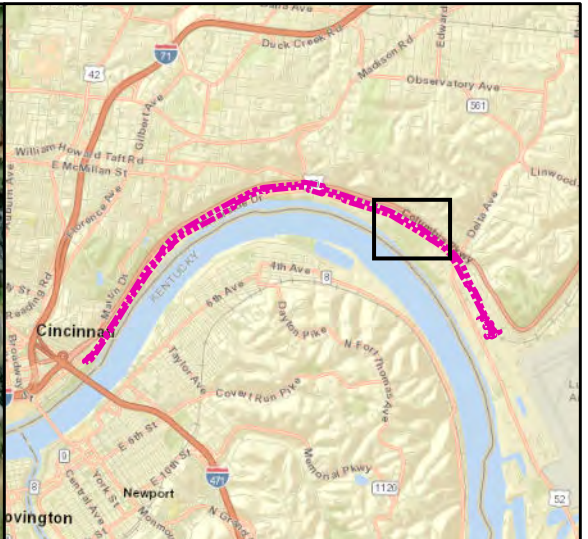


Date: Mar 2026	Approved by: MC	L&A No. 25-0353	Figure 3-e
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File Name: HAM-Great Parks Oasis Trail

Saved 3/27/2026 12:38 PM by dwilliams

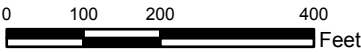
R:\GIS\Projects\FY2025\05-0353 Arcadia HAM-Great Parks Oasis Trail MUP PID 122571\HAM-Great Parks Oasis Trail



Site Location Map

Legend

- Study Area
- Bat SWH within 100' EOP
- Tunnel / Underpass
- Detention Pond



**HAM-Great Parks
Oasis Trail**

Ecological Resources Map



Date:
Mar 2026

Approved by:
MC

L&A No.
25-0353

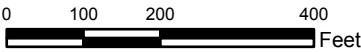
Figure
3-f



Site Location Map

Legend

- Study Area
- Bat SWH within 100' EOP
- Tunnel / Underpass



HAM-Great Parks
Oasis Trail

Ecological Resources Map



Date:
Mar 2026

Approved by:
MC

L&A No.
25-0353

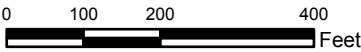
Figure
3-g



Site Location Map

Legend

- Study Area
- Bat SWH within 100' EOP



HAM-Great Parks
Oasis Trail

Ecological Resources Map



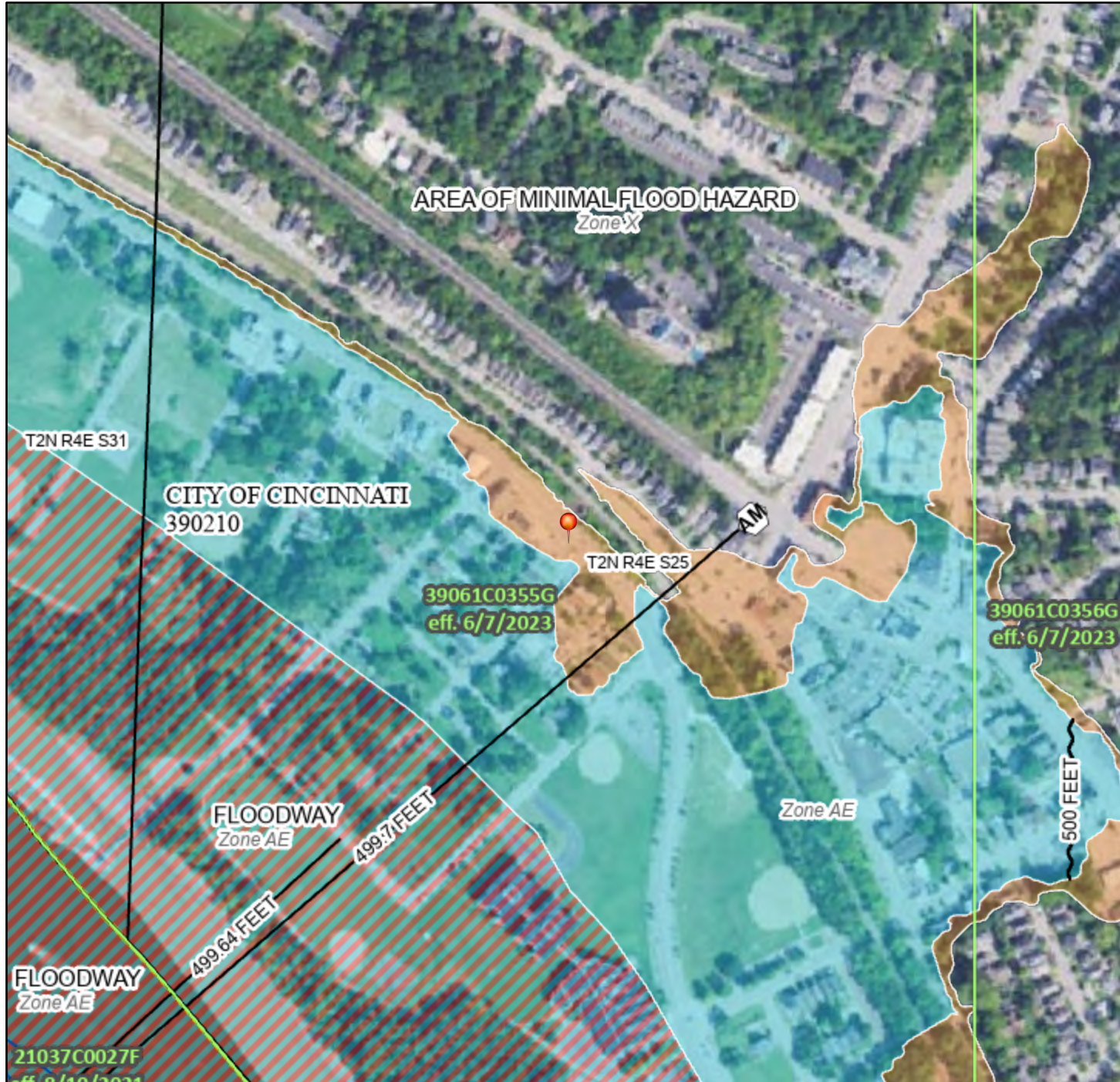
Date: Mar 2026	Approved by: MC	L&A No. 25-0353	Figure 3-h
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FEMA Flood Insurance Rate Map

National Flood Hazard Layer FIRMette



84°26'47"W 39°7'15"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

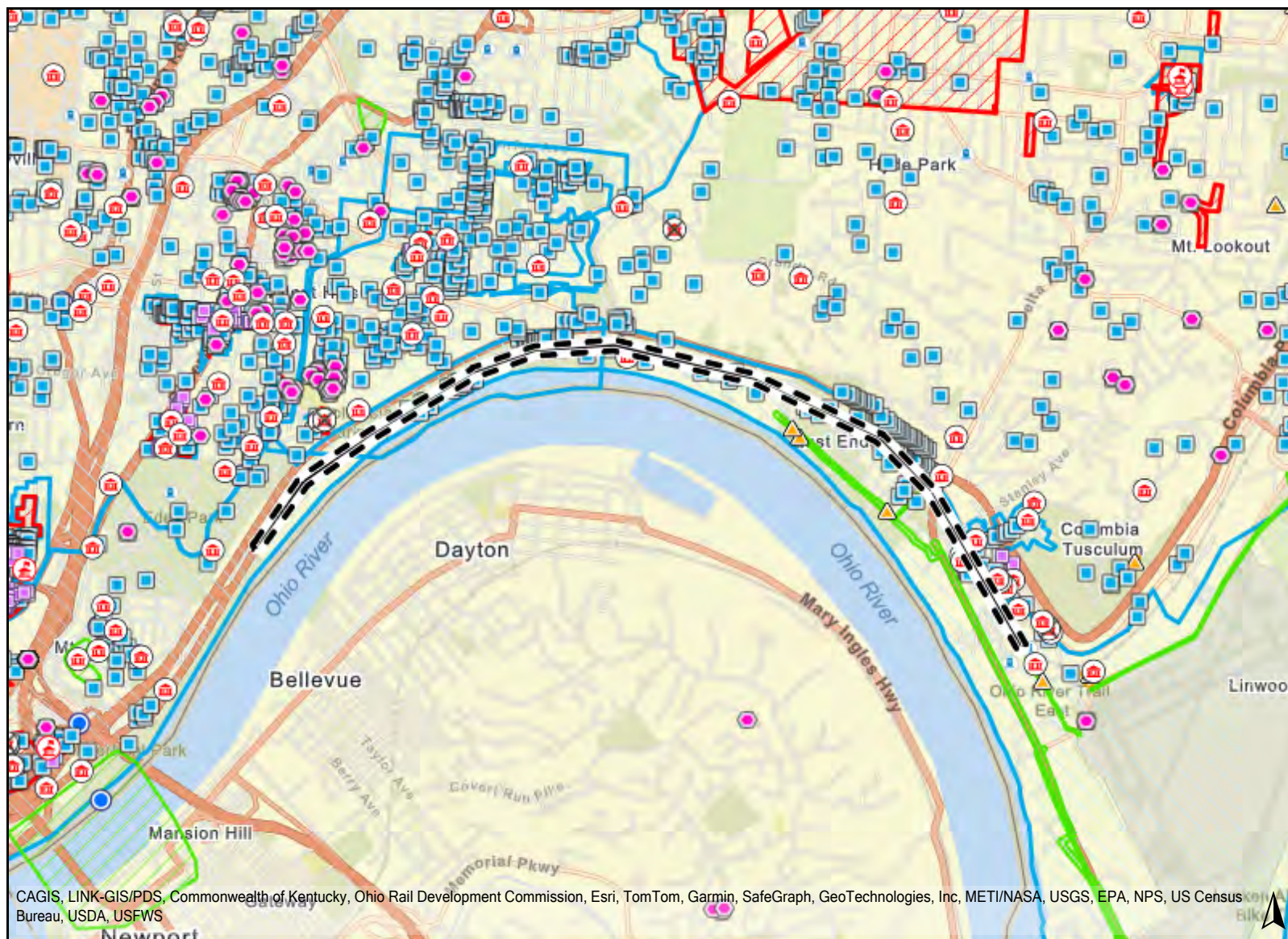
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/25/2024 at 1:31 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

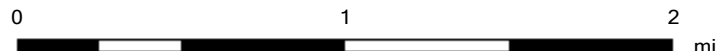
OHPO Database Map



HAM-Great Parks Oasis Trail MUP (PID 122971)



CAGIS, LINK-GIS/PDS, Commonwealth of Kentucky, Ohio Rail Development Commission, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS



This map is a user generated static output from the OSHPO mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable..

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Legend

National Register Listings

- Listed in the National Register
- National Historic Landmark
- Removed from National Register

SHPO Determinations

Archaeology Determinations



Historic Determinations



Determination Boundaries



Federal Tax Credit Projects



Historic Inventory



Archaeological Inventory

Archaeological Inventory



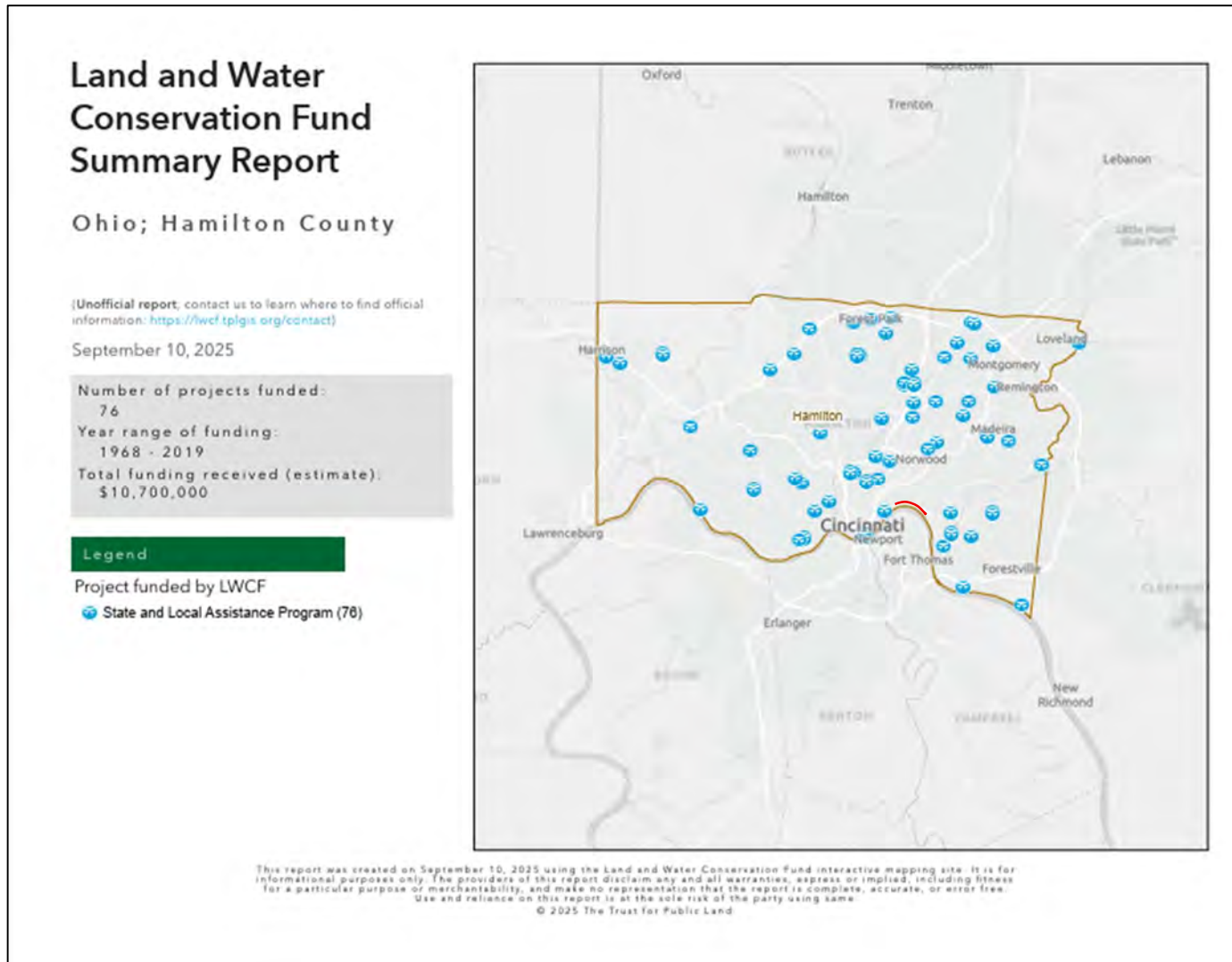
OAI Boundaries

Notes

Created by:

Land & Water Conversation Fund (LWCF) Grant Listing

Section 6(f) County Map

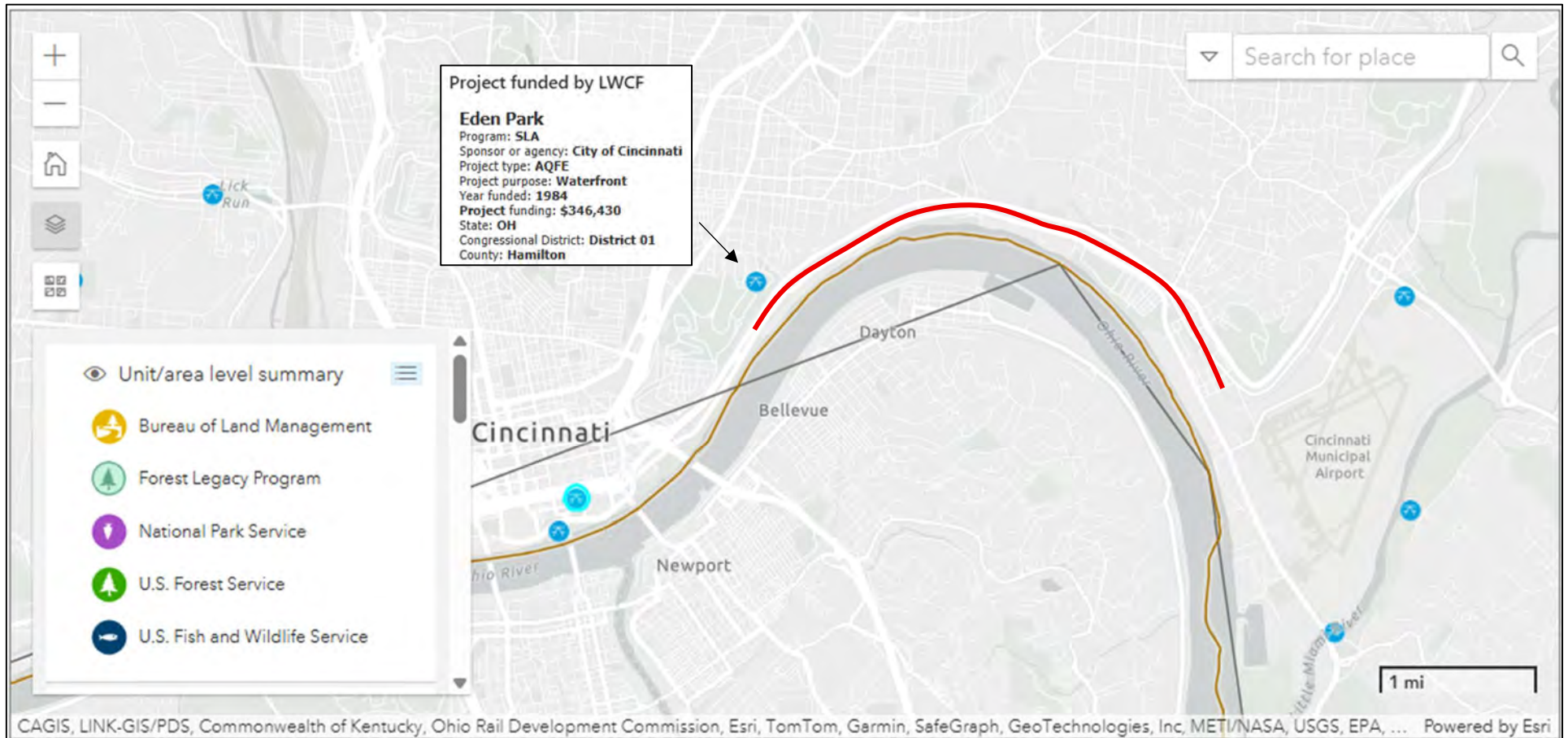


HAM-Great Parks Oasis Trail PID 122971
Cincinnati, OH
L&A No: 25-0353
Date Accessed: 09/10/2025
Map courtesy of The LWCF - Trust for Public Land GIS
<https://lwcf.tplgis.org/mappast/>

Legend:
 Project Area



Section 6(f) Project Area Map



HAM-Great Parks Oasis Trail PID 122971
 Cincinnati, OH
 L&A No: 25-0353
 Date Accessed: 09/10/2025
 Map courtesy of The LWCF - Trust for Public Land GIS
<https://lwcf.tplgis.org/mappast/>

Legend:
 Project Area



Section 6(f) County Report Data

Program	State	County	Municipality	Congressional District	Sponsor or agency	Project name	Other project name	Unit or area name	Project purpose	Project type	Year funded	LWCF funding by selected filter
State and Local Assistance	OH	Hamilton	Forest Park	District 08	City of Forest Park	3 Forest Park		3 Forest Park	Recreational Parks	AQFE	1968	97725
State and Local Assistance	OH	Hamilton	Blue Ash	District 01	City of Blue Ash	Amtheatre Center		Amtheatre Center		DEV	1977	86645
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Avon Woods Outdoor Center		Avon Woods Outdoor Center		DEV	1969	67722
State and Local Assistance	OH	Hamilton	Sycamore	District 01	Township of Sycamore	Bechtold Trail		Bechtold Trail		DEV	1991	10137
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Bracken Woods		Bracken Woods		AQFE	1975	74675
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Caldwell/Seymour Trail		Caldwell/Seymour Trail		DEV	2002	47010
State and Local Assistance	OH	Hamilton	Springdale	District 08	Village of Springdale	Cameron Road Park		Cameron Road Park		AQFE	1969	8453
State and Local Assistance	OH	Hamilton	Indian Hill	District 01	City of Indian Hill	Camp Livingston		Camp Livingston		AQFE	1971	7009
State and Local Assistance	OH	Hamilton	Forest Park	District 08	City of Forest Park	Central Park		Central Park		DEV	1970	72227
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Central Riverfront Park		Central Riverfront Park	Phase II	DEV	1973	1037237
State and Local Assistance	OH	Hamilton	Deer Park	District 01	City of Deer Park	Chamberlain Park		Chamberlain Park		DEV	1990	27061
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Cincinnati Bike & Hike Trail		Cincinnati Bike & Hike Trail		DEV	1973	25000
State and Local Assistance	OH	Hamilton	Cincinnati	District 08	City of Cincinnati	Cincinnati Boating		Cincinnati Boating		DEV	1973	296209
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Cincinnati Zoo		Cincinnati Zoo		DEV	1980	342107
State and Local Assistance	OH	Hamilton	Colerain	District 08	Township of Colerain	Clippard Park		Clippard Park		DEV	1976	40179
State and Local Assistance	OH	Hamilton	Sharonville	District 08	City of Sharonville	Community Center Park		Community Center Park	Phase II	DEV	1973	196283
State and Local Assistance	OH	Hamilton	Lincoln Heights	District 08	City of Lincoln Heights	Community Pool		Community Pool		DEV	1978	245000
State and Local Assistance	OH	Hamilton	Springdale	District 08	City of Springdale	Community Recreation Center		Community Recreation Center		DEV	1973	151765
State and Local Assistance	OH	Hamilton	Newtown	District 01	Village of Newtown	Debolts Playfield		Debolts Playfield		DEV	1981	34295
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Eden Park		Eden Park	Waterfront	AQFE	1984	346433
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Edgewood Grove		Edgewood Grove		AQFE	1975	125000
State and Local Assistance	OH	Hamilton	Whitewater	District 08	Township of Whitewater	Elizabethtown Park		Elizabethtown Park		DEV	1980	3243
State and Local Assistance	OH	Hamilton		District 01	Hamilton County	Embschhoff Nature Preserve		Embschhoff Nature Preserve		AQFE	1978	210734
State and Local Assistance	OH	Hamilton	Evendale	District 01	Village of Evendale	Evendale Community Park		Evendale Community Park		AQFE	1972	130009
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Felter's Tanglewood Park		Felter's Tanglewood Park		AQFE	1977	228600
State and Local Assistance	OH	Hamilton	Indian Hill	District 01	Village of Indian Hill	Fleischman Extension		Fleischman Extension		AQFE	1977	137500
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Fleischmann Gardens		Fleischmann Gardens	Addition	AQFE	1975	5175
State and Local Assistance	OH	Hamilton	Forest Park	District 08	City of Forest Park	Forest Park		Forest Park		AQFE	1981	292003
State and Local Assistance	OH	Hamilton	Lockland	District 08	City of Lockland	Garder Field		Garder Field		DEV	1978	88972
State and Local Assistance	OH	Hamilton	Indian Hill	District 01	Village of Indian Hill	Given - Green Area		Given - Green Area		AQFE	1976	81861
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Glenway Woods		Glenway Woods		AQFE	1977	18700
State and Local Assistance	OH	Hamilton	Harrison	District 08	Village of Harrison	Governor Looker Park		Governor Looker Park		DEV	1979	59073
State and Local Assistance	OH	Hamilton	Green	District 08	Township of Green	Green Township Park		Green Township Park		DEV	1977	63043
State and Local Assistance	OH	Hamilton	Harrison	District 08	Village of Harrison	Harrison Center		Harrison Center		AQFE	1977	94323
State and Local Assistance	OH	Hamilton	Blue Ash	District 01	City of Blue Ash	Hazelwood Park		Hazelwood Park		AQFE	1971	6225
State and Local Assistance	OH	Hamilton	Blue Ash	District 01	City of Blue Ash	Hazelwood Park		Hazelwood Park		DEV	1974	18843
State and Local Assistance	OH	Hamilton	Wyoming	District 08	OH Dept. of Natural Resources	Kattelmann Property		Kattelmann Property	Improvements	DEV	2019	456549
State and Local Assistance	OH	Hamilton	Anderson	District 01	Anderson Park Dist.	Kellogg Park		Kellogg Park		DEV	1987	60399
State and Local Assistance	OH	Hamilton	Anderson	District 01		Kellogg Park		Kellogg Park	Playground	DEV	2014	29783
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Kennedy Heights Recreation Area		Kennedy Heights Recreation Area		AQDV	1978	125003



HAM-Great Parks Oasis Trail PID 122971

Cincinnati, OH

L&A No: 25-0353

Date Accessed: 09/10/2025

Map courtesy of The LWCF - Trust for Public Land GIS

<https://lwcf.tplgis.org/mappast/>

Section 6(f) County Report Data

State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Little Miami Scenic River Park	Little Miami Scenic River Park		AQFE	1974	114251
State and Local Assistance	OH	Hamilton	Harrison	District 08	Village of Harrison	Looker Park	Looker Park	Phase II	DEV	1980	26663
State and Local Assistance	OH	Hamilton	Harrison	District 08	Village of Harrison	Looker Park	Looker Park		DEV	1986	66271
State and Local Assistance	OH	Hamilton	Loveland	District 01	City of Loveland	Loveland Park	Loveland Park	Park	AQDV	1981	86770
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Magrish	Magrish	Addition	AQFE	1986	54420
State and Local Assistance	OH	Hamilton	Elmwood Place	District 01	Village of Elmwood Place	Maple Street Pool	Maple Street Pool		DEV	1979	52362
State and Local Assistance	OH	Hamilton	Norwood	District 01	City of Norwood	Mccoullough Park	Mccoullough Park		AQFE	1984	297849
State and Local Assistance	OH	Hamilton	Madeira	District 01	City of Madeira	Mcdonald Commons	Mcdonald Commons		DEV	1985	85641
State and Local Assistance	OH	Hamilton		District 08	Hamilton County	Mitchell Forest	Mitchell Forest		AQFE	1979	404806
State and Local Assistance	OH	Hamilton		District 08	Hamilton County	Newberry Park	Newberry Park		AQFE	1975	102979
State and Local Assistance	OH	Hamilton	Newtown	District 01	Village of Newtown	Newtown Village Park	Newtown Village Park		AQFE	1969	25000
State and Local Assistance	OH	Hamilton	Cincinnati	District 08	City of Cincinnati	North Avondale Park	North Avondale Park		AQFE	1971	19350
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	North Fairmount Park	North Fairmount Park		AQFE	1971	60000
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Northside Woods	Northside Woods		AQDV	1973	63119
State and Local Assistance	OH	Hamilton		District 01	Hamilton County	Paul Woods Nature Preserve	Paul Woods Nature Preserve		AQDV	1975	200000
State and Local Assistance	OH	Hamilton	Reading	District 01	City of Reading	Reading Swim Center	Reading Swim Center		DEV	1977	237000
State and Local Assistance	OH	Hamilton	Lockland	District 08		Richardson Park	Richardson Park	Restroom Facilities	DEV	2014	23478
State and Local Assistance	OH	Hamilton	Lockland	District 08	Village of Lockland	Richardson Park	Richardson Park	Restroom Developr	DEV	2015	29347
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Riverfront Park	Riverfront Park	Phase III	DEV	1973	509947
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Riverfront Park	Riverfront Park	Phase 4	AQDV	1974	888489
State and Local Assistance	OH	Hamilton	Cincinnati	District 01		Ryan Sports Complex	Ryan Sports Complex	Renovation	DEV	2013	70000
State and Local Assistance	OH	Hamilton	Cincinnati	District 01		Ryan Sports Complex	Ryan Sports Complex	Renovation	DEV	2014	88613
State and Local Assistance	OH	Hamilton		District 08	OH Dept. of Natural Resources	Sharon Lake	Sharon Lake	Recreational Improv	DEV	2019	500000
State and Local Assistance	OH	Hamilton	Sharonville	District 08	City of Sharonville	Sharonville Community Center	Sharonville Community Center		AQFE	1970	48000
State and Local Assistance	OH	Hamilton		District 08	Hamilton County	Southeast Park	Southeast Park	Addition	AQFE	1977	147728
State and Local Assistance	OH	Hamilton	Cincinnati	District 01	City of Cincinnati	Stanberry Park	Stanberry Park	Addition	AQFE	1976	23000
State and Local Assistance	OH	Hamilton	Montgomery	District 01	City of Montgomery	Swaim Field	Swaim Field		DEV	1979	150000
State and Local Assistance	OH	Hamilton	Terrace Park	District 01	Village of Terrace Park	Terrace Park	Terrace Park		DEV	2006	126818
State and Local Assistance	OH	Hamilton	Terrace Park	District 01	Village of Terrace Park	Terrace Park	Terrace Park		DEV	2006	148893
State and Local Assistance	OH	Hamilton	Village of Arlington Heights	District 01	Village of Arlington Heights	Town Hall Park	Town Hall Park		DEV	1994	3877
State and Local Assistance	OH	Hamilton		District 08	Hamilton County	Triple Creek Park	Triple Creek Park		AQDV	1979	144950
State and Local Assistance	OH	Hamilton		District 08	Hamilton County	Winton Woods Park	Winton Woods Park		AQDV	1972	33000
State and Local Assistance	OH	Hamilton	Cincinnati	District 08	City of Cincinnati	Woodland Golf Course	Woodland Golf Course		AQFE	1973	110000
State and Local Assistance	OH	Hamilton		District 01	Hamilton County	Woodland Mound Park	Woodland Mound Park		AQFE	1975	104879
State and Local Assistance	OH	Hamilton	Wyoming	District 08	City of Wyoming	Wyoming Park	Wyoming Park		DEV	1984	116150
State and Local Assistance	OH	Hamilton	Cincinnati	District 08	City of Cincinnati	Yale & Kemper Park	Yale & Kemper Park		AQFE	1971	49983



HAM-Great Parks Oasis Trail PID 122971

Cincinnati, OH

L&A No: 25-0353

Date Accessed: 09/10/2025

Map courtesy of The LWCF - Trust for Public Land GIS

<https://lwcf.tplgis.org/mappast/>

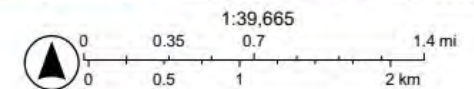
Drinking Water Protection Area Map

Drinking Water Protection Areas Map



5/12/2026, 8:39:42 AM

Parcels (Ohio)
Sole Source Aquifers
World_Hillshade



Sources: Esri, Vantor, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community, Division of Drinking and Ground Waters, Ohio EPA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, ©



HAM-Great Parks Oasis Trail PID 122971

Cincinnati, OH

L&A No: 25-0353

Date Accessed: 05/12/2026

Map courtesy of Ohio EPA Division of Drinking and Ground Waters

<https://geo.epa.ohio.gov/portal/apps/experiencebuilder/experience/?id=0e4135cb7e1a40509ed321cddaae1407>

Legend:

- █ Project Area
- █ Source Water Protection Area
- █ Inner Management Zone
- █ Sole Source Aquifers
- █ Corridor Management Zone



Water Well Map

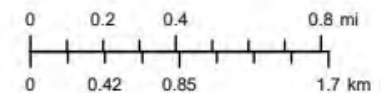
Water Well/Sealing Report Map



- Statewide Parcels
- Current Township
- Counties
- X Sealing Reports

May 12, 2026

Scale: 1:35,962



Legend:

- Project Area



HAM-Great Parks Oasis Trail PID 122971

Cincinnati, OH

L&A No: 25-0353

Date Accessed: 05/12/2026

Map courtesy of ODNR Water Well Database

<https://waterwells.ohiodnr.gov/search/interactive-search>

Water Well/Sealing Report Data

Record No	Street Number	Street Name	County	Township	Total Depth	Owner Last Name	Well Use	Static Water Level	Latitude	Longitude	Date of Sealing
324238	3230	WALWORTH	HAMILTON	COLUMBIA	27.5	EAST END DEVELOPERS, LLC	MONITOR	17.7	39.11946	-84.44469	5/21/2019
323827		WALWORTH	HAMILTON	COLUMBIA	27.5	WALWORTH OPPORTUNITIES, LLC	MONITOR	17.6	39.11946	-84.44469	5/20/2019
323812		WALWORTH	HAMILTON	COLUMBIA	30.5	WALWORTH OPPORTUNITIES, LLC	MONITOR	17.8	39.12167	-84.45029	5/20/2019



HAM-Great Parks Oasis Trail PID 122971

Cincinnati, OH

L&A No: 25-0353

Date Accessed: 05/12/2026

Map courtesy of ODNR Water Well Database

<https://waterwells.ohiodnr.gov/search/interactive-search>

Ohio Regulated Properties Search (ORPS) Report

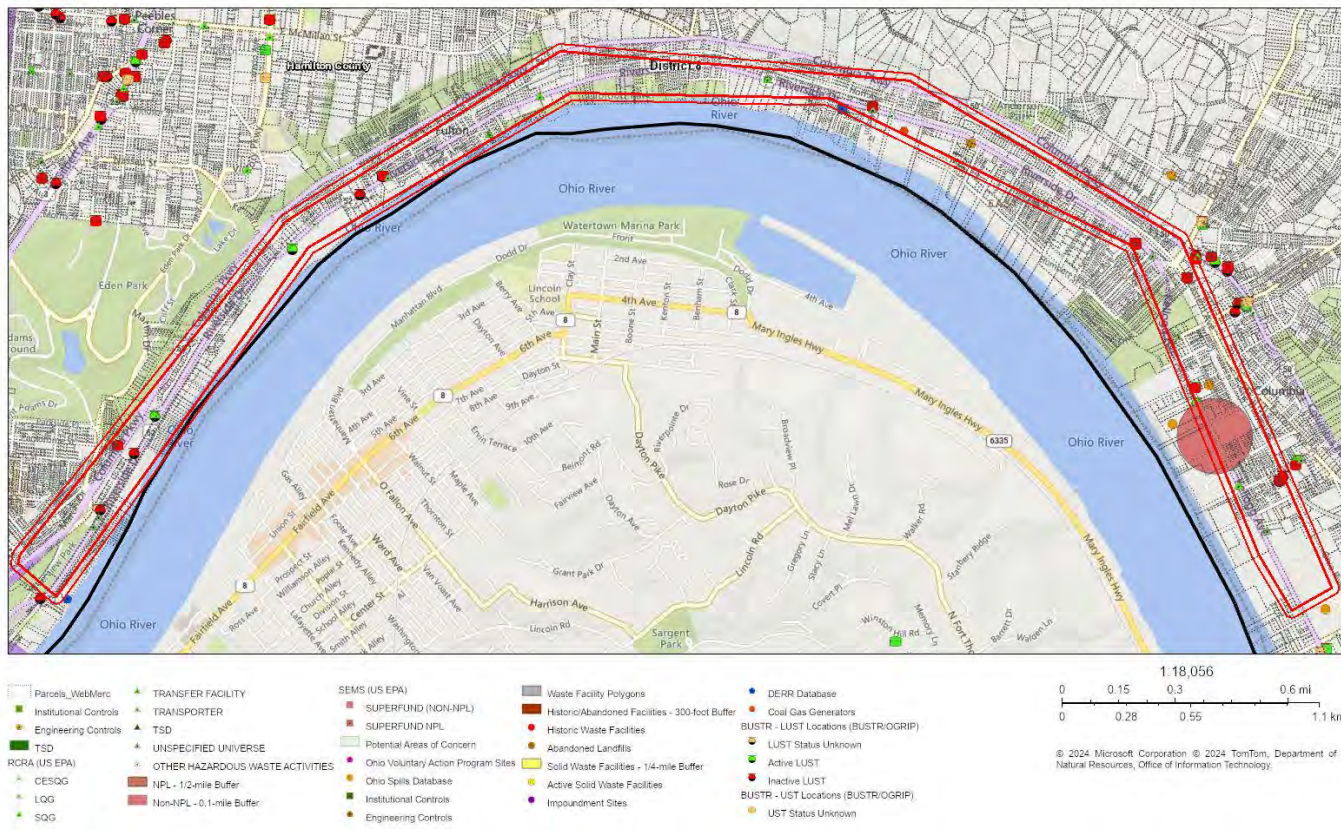


ORPS Summary Report

Area of Interest (AOI) Information

Area : 447.21 acres

Sep 25 2024 13:35:22 Eastern Daylight Time



Summary

Name	Count	Area(acres)	Length(ft)
SEMS - Non-NPL Sites w/buffer (US EPA)	1	13.89	N/A
SEMS - NPL Sites w/buffer (US EPA)	0	0	N/A
RCRA (US EPA)	18	N/A	N/A
RCRA - TSD Sites w/buffer (US EPA)	0	0	N/A
Federal Engineering Controls (US EPA)	0	N/A	N/A
Federal Institutional Controls (US EPA)	0	N/A	N/A
BUSTR - UST Locations (BUSTR/OGRIP)	27	N/A	N/A
BUSTR - LUST Locations (BUSTR/OGRIP)	22	N/A	N/A
Coal Gas Generators (OEPA-DERR)	1	N/A	N/A
DERR Database (OEPA-DERR)	2	N/A	N/A
Impoundment Sites (OEPA-DERR)	0	N/A	N/A
Landfills - Active Solid Waste Facilities w/buffer (OEPA-DMWM)	0	0	N/A
Landfills - Historic/Abandoned Facilities w/buffer (OEPA-DMWM/DERR)	0	0	N/A
Landfills - Solid Waste Facility Polygons (OEPA-DMWM)	0	0	N/A
Projects With Engineering Controls (OEPA-DERR)	0	N/A	N/A
Projects With Institutional Controls (OEPA-DERR)	2	N/A	N/A
Spills Database (OEPA)	2	N/A	N/A
VAP Sites (OEPA-DERR)	2	N/A	N/A
Potential Areas of Concern (ODOT-OES)	0	0	N/A

SEMS - Non-NPL Sites w/buffer (US EPA)

#	REGISTRY_ID	PRIMARY_NAME	ADDRESS	CITY	STATE	ZIP	LAST_REPORTED_DATE	URL
1	110054629176	KINDER MORGAN EMERGENCY RESPONSE	3806 KELLOGG AVE	CINCINNATI	OH	45268	<i>No Data</i>	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110054629176

#	PGM_SYS_ID	PGM_SYS_ACRONYM	INTEREST_TYPE	REFERENCE_POINT_DESC	Area(acres)
1	OHN000510869	SEMS	SUPERFUND (NON-NPL)	CENTER OF A FACILITY OR STATION	13.89

RCRA (US EPA)

#	REGISTRY_ID	PRIMARY_NAME	ADDRESS	CITY	STATE	ZIP	LAST_REPORTED_DATE	URL
1	110004713882	LINK MARKETING & DATA SERVICES	1727 EASTERN AVE	CINCINNATI	OH	45202-1710	10/16/2014	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110004713882
2	110004624951	MIKE'S BODY SHOP	3924 KELLOGG AVE	CINCINNATI	OH	45226	10/16/2014	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110004624951
3	110032654811	RAILROAD BRIDGE OVER STANLEY AVE	212 STANLEY AVE	CINCINNATI	OH	45226	4/28/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110032654811
4	110004594145	LACKNER SIGN CO	1120 EASTERN AVE	CINCINNATI	OH	45202-1706	4/28/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110004594145
5	110004734173	PENDLETON HERITAGE CENTER	2760 EASTERN AVENUE	CINCINNATI	OH	45202-1860	4/28/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110004734173
6	110043554150	THE VERDIN COMPANY	3900 KELLOGG AVE	CINCINNATI	OH	45226	4/28/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110043554150
7	110004648917	GRUBB OIL CO	1925 EASTERN AVE	CINCINNATI	OH	45202	4/14/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110004648917

8	110032654820	RAILROAD BRIDGE OVER EASTERN AVE	3450 EASTERN AVE	CINCINNATI	OH	45226	3/29/2019	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110032654820
9	110001625554	I T VERDIN CO	2021 EASTERN AVE	CINCINNATI	OH	45202-1898	10/16/2014	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110001625554
10	110054220375	QUEEN CITY TERMINALS LLC (1431072036)	3801 KELLOGG AVENUE	CINCINNATI	OH	45226	3/11/2019	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110054220375
11	110000577536	QUEEN CITY TERMINAL	3806 KELLOGG AVENUE	CINCINNATI	OH	45226-1516	3/13/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110000577536
12	110000577536	QUEEN CITY TERMINAL	3806 KELLOGG AVENUE	CINCINNATI	OH	45226-1516	4/28/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110000577536
13	110054857605	OCCIDENTAL CHEMICAL STORAGE TANK @ KINDER MORGAN TERMINAL	3806 KELLOGG AVE	CINCINNATI	OH	45226	4/11/2019	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110054857605
14	110009660642	CINCINNATI PWS MAIN PUMP	2545 EASTERN AVE	CINCINNATI	OH	45202-1815	10/16/2014	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110009660642
15	110004670892	CINCINATI CITY OF	1108 EASTERN AVE	CINCINNATI	OH	45202	4/14/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110004670892

16	110004641610	CIN GAS & ELECTIC CO EASTEN AVE GAS PLNT	2801 EASTERN AVE	CINCINNATI	OH	45226-1006	12/18/2019	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110004641610
17	110004641610	CIN GAS & ELECTIC CO EASTEN AVE GAS PLNT	2801 EASTERN AVE	CINCINNATI	OH	45226-1006	4/28/2015	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110004641610
18	110004613188	FLERLAGE MARINE	2233 EASTERN AVE	CINCINNATI	OH	45202	10/16/2014	https://ofmpub.epa.gov/frs_public2/fii_query_detail_disp_program_facility?p_registry_id=110004613188

#	PGM_SYS_ID	PGM_SYS_ACRONYM	INTEREST_TYPE	REFERENCE_POINT_DESC	Count
1	OHR000009340	RCRAINFO	CESQG	ENTRANCE POINT OF A FACILITY OR STATION	1
2	OHD081587404	RCRAINFO	SQG	CENTER OF A FACILITY OR STATION	1
3	OHR000143610	RCRAINFO	UNSPECIFIED UNIVERSE	ENTRANCE POINT OF A FACILITY OR STATION	1
4	OHD004253613	RCRAINFO	UNSPECIFIED UNIVERSE	ENTRANCE POINT OF A FACILITY OR STATION	1
5	OHR000037150	RCRAINFO	UNSPECIFIED UNIVERSE	ENTRANCE POINT OF A FACILITY OR STATION	1
6	OHR000164038	RCRAINFO	SQG	CENTER OF A FACILITY OR STATION	1
7	OHD981960370	RCRAINFO	UNSPECIFIED UNIVERSE	ENTRANCE POINT OF A FACILITY OR STATION	1
8	OHR000143628	RCRAINFO	UNSPECIFIED UNIVERSE	ENTRANCE POINT OF A FACILITY OR STATION	1
9	OHD986990125	RCRAINFO	SQG	PLANT ENTRANCE (GENERAL)	1
10	OHP500010640	RCRAINFO	LQG	CENTER OF A FACILITY OR STATION	1
11	OHD071270656	RCRAINFO	CESQG	PLANT ENTRANCE (GENERAL)	1
12	OHR000111450	RCRAINFO	UNSPECIFIED UNIVERSE	PLANT ENTRANCE (GENERAL)	1
13	OHR000175331	RCRAINFO	UNSPECIFIED UNIVERSE	CENTER OF A FACILITY OR STATION	1
14	OHD986968055	RCRAINFO	SQG	ENTRANCE POINT OF A FACILITY OR STATION	1
15	OHD987002268	RCRAINFO	UNSPECIFIED UNIVERSE	ENTRANCE POINT OF A FACILITY OR STATION	1
16	OHD981194509	RCRAINFO	UNSPECIFIED UNIVERSE	ENTRANCE POINT OF A FACILITY OR STATION	1
17	OHD981194509	RCRAINFO	CESQG	ENTRANCE POINT OF A FACILITY OR STATION	1
18	OHD052151487	RCRAINFO	SQG	ENTRANCE POINT OF A FACILITY OR STATION	1

BUSTR - UST Locations (BUSTR/OGRIP)

#	FACILITY_ID	CURRENT_FACILITY_NAME	ADDRESS	CITY	ZIP	Status	INSPECTION_DATE	FACILITY_CO
1	31000193	VALUE OIL CO.	2740 EASTERN AVE	CINCINNATI	45202	REM	No Data	No Data
2	31000193	VALUE OIL CO.	2740 EASTERN AVE	CINCINNATI	45202	REM	No Data	No Data
3	31000193	VALUE OIL CO.	2740 EASTERN AVE	CINCINNATI	45202	REM	No Data	No Data
4	31000193	VALUE OIL CO.	2740 EASTERN AVE	CINCINNATI	45202	REM	No Data	No Data
5	31000193	VALUE OIL CO.	2740 EASTERN AVE	CINCINNATI	45202	REM	No Data	No Data
6	31000552	SITE STORE #80	1903 RIVERSIDE DRIVE (EASTERN AV	CINCINNATI	45202	REM	No Data	No Data
7	31000552	SITE STORE #80	1903 RIVERSIDE DRIVE (EASTERN AV	CINCINNATI	45202	REM	No Data	No Data
8	31000552	SITE STORE #80	1903 RIVERSIDE DRIVE (EASTERN AV	CINCINNATI	45202	REM	No Data	No Data
9	31000552	SITE STORE #80	1903 RIVERSIDE DRIVE (EASTERN AV	CINCINNATI	45202	REM	No Data	No Data
10	31002617	CITY OF CINCINNATI	1270 COLUMBIA PKWY	CINCINNATI	45202	REM	No Data	No Data
11	31002617	CITY OF CINCINNATI	1270 COLUMBIA PKWY	CINCINNATI	45202	REM	No Data	No Data
12	31007196	CITY OF CINCINNATI	3401 EASTERN AVE	CINCINNATI	45226	REM	No Data	No Data
13	31007780	RICH'S STERN DRIVE & MARINE	3405 EASTERN AVE	CINCINNATI	45226	REM	No Data	No Data
14	31007780	RICH'S STERN DRIVE & MARINE	3405 EASTERN AVE	CINCINNATI	45226	REM	No Data	No Data
15	31007780	RICH'S STERN DRIVE & MARINE	3405 EASTERN AVE	CINCINNATI	45226	REM	No Data	No Data
16	31007780	RICH'S STERN DRIVE & MARINE	3405 EASTERN AVE	CINCINNATI	45226	REM	No Data	No Data
17	31010409	GEORGE BRANDSTETTER & SONS	4021 DUMONT (NE C/O LOT)	CINCINNATI	45226	REM	No Data	No Data

18	31010409	GEORGE BRANDSTETTER & SONS	4021 DUMONT (NE C/O LOT)	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>
19	31010581	ONE MAN'S TRASH, INC.	3766 KELLOGG AVE.	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>
20	31010581	ONE MAN'S TRASH, INC.	3766 KELLOGG AVE.	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>
21	31010581	ONE MAN'S TRASH, INC.	3766 KELLOGG AVE.	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>
22	31010645	COLUMBIA COMMONS/ORPHAN TANK	3511 COLUMBIA PARKWAY	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>
23	31010645	COLUMBIA COMMONS/ORPHAN TANK	3511 COLUMBIA PARKWAY	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>
24	31010645	COLUMBIA COMMONS/ORPHAN TANK	3511 COLUMBIA PARKWAY	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>
25	31010645	COLUMBIA COMMONS/ORPHAN TANK	3511 COLUMBIA PARKWAY	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>
26	31010645	COLUMBIA COMMONS/ORPHAN TANK	3511 COLUMBIA PARKWAY	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>
27	31010685	COLUMBIA SQUARE/CELL TOWER SITE	3526 EASTERN AVE	CINCINNATI	45226	REM	<i>No Data</i>	<i>No Data</i>

#	TANK_ID	CAPACITY	CONTENT	DATE_REMOVED	FACILITY_STATUS	Count
1	T00001	8000	Gasoline	11/05/94	Inactive	1
2	T00002	8000	Gasoline	11/08/94	Inactive	1
3	T00003	6000	Gasoline	11/08/94	Inactive	1
4	T00004	6000	Diesel	11/08/94	Inactive	1
5	T00005	4000	Gasoline	11/08/94	Inactive	1
6	T00001	12000	Gasoline	06/17/09	Inactive	1
7	T00002	12000	Gasoline	06/17/09	Inactive	1
8	T00003	12000	Gasoline	06/17/09	Inactive	1
9	T00004	12000	Diesel	06/17/09	Inactive	1
10	T00001	7000	Unknown	01/01/94	Inactive	1
11	T00002	4000	Unknown	01/01/94	Inactive	1
12	T00001	1000	Unknown	10/27/92	Inactive	1
13	T00001	NULL	Gasoline	01/01/93	Inactive	1
14	T00002	NULL	Gasoline	01/01/93	Inactive	1
15	T00003	NULL	Gasoline	01/01/93	Inactive	1
16	T00004	NULL	Gasoline	01/01/93	Inactive	1
17	T00001	250	Used Oil	06/21/91	Inactive	1
18	T00002	2000	Gasoline	06/21/91	Inactive	1
19	T00001	8000	Unknown	05/30/97	Inactive	1
20	T00002	8000	Unknown	05/30/97	Inactive	1
21	T00003	6000	Unknown	05/30/97	Inactive	1
22	T00001	3000	Gasoline	02/06/06	Inactive	1
23	T00002	3000	Diesel	02/06/06	Inactive	1
24	T00003	4000	Unknown	02/06/06	Inactive	1
25	T00004	4000	Unknown	02/06/06	Inactive	1
26	T00005	6000	Unknown	12/04/06	Inactive	1
27	T00001	3500	Gasoline	11/15/07	Inactive	1

BUSTR - LUST Locations (BUSTR/OGRIP)

#	FACILITY_ID	CURRENT_FACILITY_NAME	ADDRESS	CITY	ZIP	INCIDENT_ID	LTF	STATUS	FACILITY_STATUS	Count
1	No Data	SITE STORE #80	1903 RIVERSIDE DRIVE (EASTERN AV	CINCINNATI	45202	No Data	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	2
2	No Data	GEORGE BRANDSTETTER & SONS	4021 DUMONT (NE C/O LOT)	CINCINNATI	45226	No Data	6 Closure of regulated UST	NFA: No Further Action	Inactive	2
3	31000552	SITE STORE #80	1903 RIVERSIDE DRIVE (EASTERN AV	CINCINNATI	45202	N00002	1 SUS/CON from regulated UST	TR2: Tier 2	Active	1
4	31010070	VACANT LOT	1350 EASTERN AVE	CINCINNATI	45202	N00001	1 SUS/CON from regulated UST	T1N: Tier 1 Notification	Active	1
5	31010381	AMERICAN BUILDING COMPONENTS	1727 EASTERN AVE	CINCINNATI	45202	N00001	1 SUS/CON from regulated UST	T1N: Tier 1 Notification	Active	1
6	31010581	ONE MAN'S TRASH, INC.	3766 KELLOGG AVE.	CINCINNATI	45226	N00001	1 SUS/CON from regulated UST	T1S: Tier 1 Source Investigation	Active	1
7	31010685	COLUMBIA SQUARE/CELL TOWER SITE	3526 EASTERN AVE	CINCINNATI	45226	N00001	1 SUS/CON from regulated UST	M	Inactive	1
8	31000193	VALUE OIL CO.	2740 EASTERN AVE	CINCINNATI	45202	N00001	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1
9	31000552	SITE STORE #80	1903 RIVERSIDE DRIVE (EASTERN AV	CINCINNATI	45202	N00001	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1
10	31007196	CITY OF CINCINNATI	3401 EASTERN AVE	CINCINNATI	45226	N00001	6 Closure of regulated UST	NFA: No Further Action	Inactive	1
11	31007780	RICH'S STERN DRIVE & MARINE	3405 EASTERN AVE	CINCINNATI	45226	N00001	6 Closure of regulated UST	NFA: No Further Action	Inactive	1
12	31010074	VACANT LOT	1110 EASTERN AVE	CINCINNATI	45202	N00001	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1
13	31010124	ADAMS LANDING	1262 EASTERN AVE	CINCINNATI	44114	N00001	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1

14	31010409	GEORGE BRANDSTETTER & SONS	4021 DUMONT (NE C/O LOT)	CINCINNATI	45226	N00001	6 Closure of regulated UST	NFA: No Further Action	Inactive	1
15	31010409	GEORGE BRANDSTETTER & SONS	4021 DUMONT (NE C/O LOT)	CINCINNATI	45226	N00002	6 Closure of regulated UST	NFA: No Further Action	Inactive	1
16	31010645	COLUMBIA COMMONS/OPPHAN TANK	3511 COLUMBIA PARKWAY	CINCINNATI	45226	N00001	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1
17	31010645	COLUMBIA COMMONS/OPPHAN TANK	3511 COLUMBIA PARKWAY	CINCINNATI	45226	N00002	6 Closure of regulated UST	NFA: No Further Action	Inactive	1
18	No Data	QUEEN CITY TERMINALS INC	3806 KELLOGG AVE	CINCINNATI	45226	No Data	1 SUS/CON from regulated UST	T1S: Tier 1 Source Investigation	Active	1
19	No Data	COLUMBIA SQUARE/CELL TOWER SITE	3526 EASTERN AVE	CINCINNATI	45226	No Data	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1
20	No Data	ONE MAN'S TRASH, INC.	3766 KELLOGG AVE.	CINCINNATI	45226	No Data	1 SUS/CON from regulated UST	T1S: Tier 1 Source Investigation	Active	1

Coal Gas Generators (OEPA-DERR)

#	SITE_NAME	ADDRESS	CITY	ZIP	PROCESS	OEPA_DISTRICT	Count
1	EAST END GAS WORKS	COMPANY	CINCINNATI	45201	COAL GAS	5	1

DERR Database (OEPA-DERR)

#	DERR_ID	NAME	ALIAS	ADDRESS	CITY	ZIP	CERCLIS_ID	ACTIVITY
1	531003071	Riverside Drive Property, Cincinnati	No Data	Keck Street & Riverside Drive	Cincinnati	45202-	No Data	VAP
2	531003071	Riverside Drive Property, Cincinnati	Riverside Drive Property, Cincinnati	Keck Street & Riverside Drive	Cincinnati	45202-	No Data	VAP

#	OEPA_DISTRICT	EDOCS_LINK	Count
1	SWDO		1
2	SWDO		1

Projects With Institutional Controls (OEPA-DERR)

#	NAME	ADDRESS	CITY	ZIP	LAND_USE	CONTROL_TYPE	SITE_ID	PROJECT_ID
1	Riverside Drive Property, Cincinnati	Keck Street & Riverside Drive	Cincinnati	45202-	No Data	Institutional	531003071	531003071002
2	Riverside Drive Property, Cincinnati	Keck Street & Riverside Drive	Cincinnati	45202-	Other	Institutional	531003071	531003071002

#	PROJECT_TYPE	NFA_NUMBER	IC_TYPE	IC_MECHANISM	OEPA_DISTRICT	EDOCS_LINK	Count
1	NFA 90 Day	No Data	Potable & Non-potable GW Extraction/Use Restriction	Environmental Covenant IAW UECA	SWDO		1
2	NFA 90 Day	14NFA586	No Data	No Data	SWDO		1

Spills Database (OEPA)

#	LATITUDE	LONGITUDE	SPILL_NUMBER	SPILL_YEAR	SPILL_LOCATION	SPILL_CITY	SPILL_COUNTY	WATERWAY
1	39.111972	-84.438139	684	2002	3744 MEADE AVE.	CINCINNATI	HAMILTON	SANITARY SEWER
2	39.121222	-84.449889	522	2012	2915 RIVERSIDE DR	CINCINNATI	HAMILTON	N/A

#	SPILL_AMOUNT	PRODUCT	STATUS	OEPA_DISTRICT	Count
1	3000	OIL - WASTE OIL	5/17/2017	SWDO	1
2	70	DIESEL FUEL	5/17/2017	SWDO	1

VAP Sites (OEPA-DERR)

#	SITE_ID	NAME	ALIAS_NAME	ADDRESS	ADDRESS2	CITY	ZIP	PROJECT_TYPE
1	531003071	Riverside Drive Property, Cincinnati	Riverside Drive Property, Cincinnati	Keck Street & Riverside Drive	No Data	Cincinnati	45202-	NFA 90 Day
2	531003071	Riverside Drive Property, Cincinnati	No Data	Keck Street & Riverside Drive	No Data	Cincinnati	45202-	VAP Technical Assistance

#	OEPA_DISTRICT	EDOCS_LINK	Count
1	SWDO		1
2	SWDO		1

Attachment H

Public Involvement Summary Report

Attachment I

Preliminary Cost Estimates

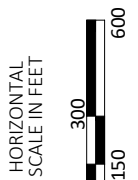
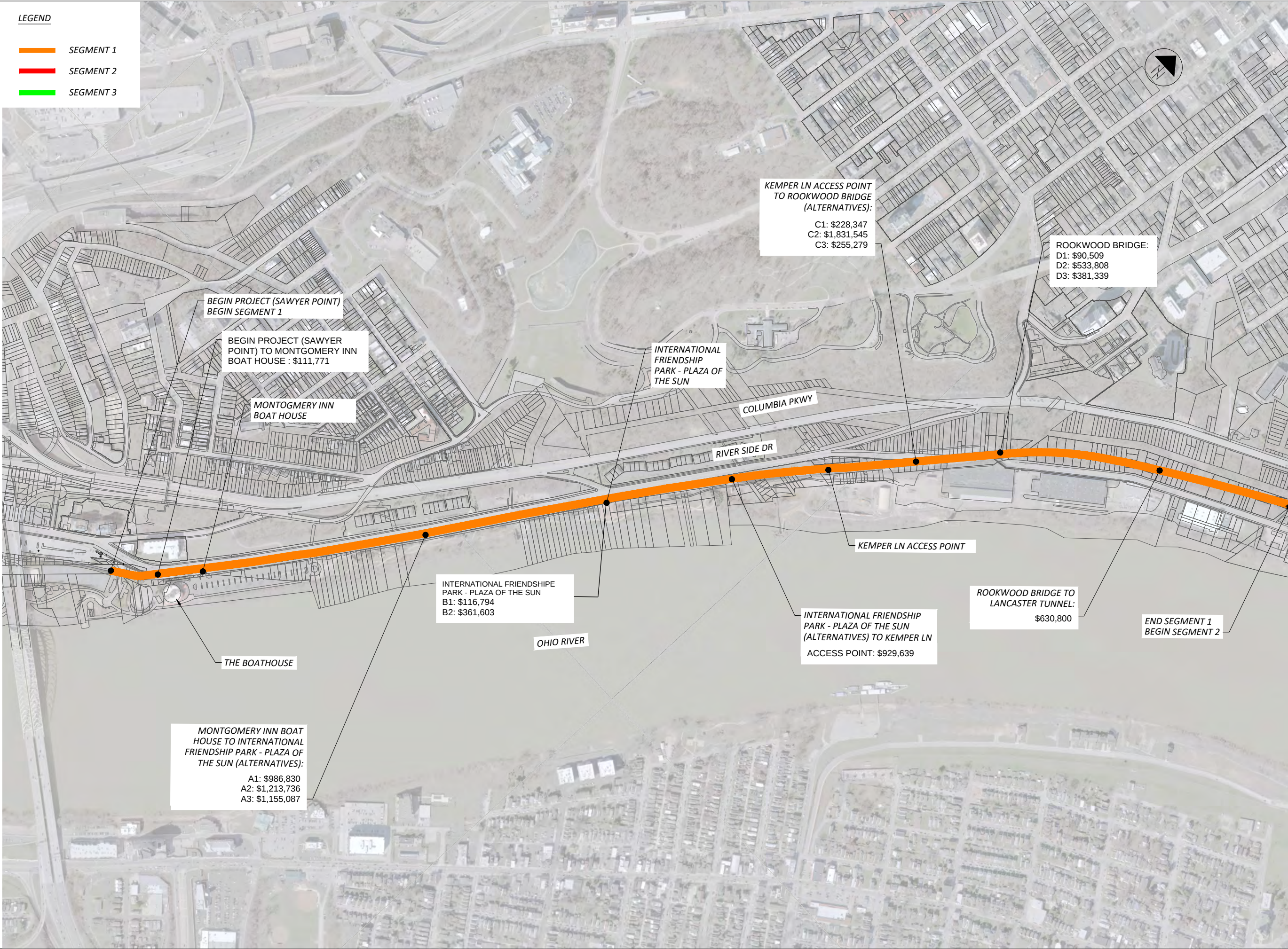
COST ESTIMATE SUMMARY OF OASIS TRAIL					
	To and From	Alternatives			
BEGIN PROJECT (SAWYER POINT) TO MONTGOMERY INN BOAT HOUSE	\$111,771.01	0			
MONTGOMERY INN BOAT HOUSE TO INTERNATIONAL FRIENDSHIP PARK - PLAZA OF THE SUN (ALTERNATIVES)		A1	A2	A3	
		\$986,829.59	\$1,213,736.01	\$1,155,087.02	
INTERNATIONAL FRIENDSHIP PARK - PLAZA OF THE SUN (ALTERNATIVES)		B1	B2		
		\$116,793.56	\$361,603.42		
INTERNATIONAL FRIENDSHIP PARK - PLAZA OF THE SUN ALTERNATIVES TO KEMPER LN ACCESS POINT	\$929,638.84				
KEMPER LN ACCESS POINT TO ROOKWOOD BRIDGE (ALTERNATIVES)		C1	C2	C3	
		\$228,347.14	\$1,831,544.88	\$255,279.42	
ROOKWOOD BRIDGE (ALTERNATIVES)		D1	D2	D3	
		\$90,509.29	\$533,807.94	\$381,339.20	
ROOKWOOD BRIDGE TO LANCASTER TUNNEL	\$630,799.57				
LANCASTER ST. PEDESTRIAN ACCESS TUNNEL		E1	E2	E3	
		N/A	\$172,950.00	\$49,611,220.72	
LANCASTER ST. PEDESTRIAN ACCESS TUNNEL TO HAZEN ST. ACCESS POINT	\$266,136.67				
HAZEN ST. ACCESS POINT		F1	F2	No Build	
		\$487,832.53	\$60,568.68		
HAZEN ST. ACCESS POINT TO COLLINS AVE. BRIDGE	\$1,214,720.97				
COLLINS AVE BRIDGE MODIFICATIONS		\$325,444.80	\$313,914.80	\$383,094.80	\$117,904.80
GLADSTONE AVE.	\$533,256.81				
GLADSTONE AVE. TO TORRENCE RD STATION	\$544,070.07				
TORRENCE RD STATION		G1	G2	G3	G4 G5
		\$496,988.81	\$70,489.24	\$459,485.72	\$2,788,793.63 \$3,570,866.94
TORRENCE TO HOFF AVE. CONNECTION	\$587,147.01				
HOFF AVE. CONNECTION	\$87,237.95				
HOFF AVE. CONNECTION TO ST. ANDREWS ST.	\$622,277.55				
ST. ANDREWS ST.		H1	H2		
		\$354,856.36	\$120,297.94		
ST. ANDREWS ST. TO WALWORTH TUNNEL	\$1,294,306.91				
WALWORTH TUNNEL	\$85,887.77				
WALWORTH TUNNEL TO DELTA AVE. BRIDGE		J1	J2	J3	
		\$278,874.96	\$1,686,574.80	\$427,848.97	
DELTA AVE. PEDESTRAIN ACCESS POINT	\$258,462.83				
DELTA AVE. ACCESS POINT TO STANLEY AVE. ACCESS POINT	\$305,962.84				
STANLEY AVE. ACCESS POINT	\$276,030.69				
STANLEY AVE. BRIDGE	\$87,704.84				
STANLEY AVE. BRIDGE TO CONGRESS TUNNEL/TUSCULUM AVE. ACCESS POINT	\$259,615.01				
TUSCULUM AVE. ACCESS POINT	\$9,777.89				
TUSCULUM AVE. ACCESS POINT TO DONHAM ST. ACCESS POINT	\$197,234.07				
DONHAM ST. ACCESS POINT	\$19,918.21				
DONHAM ST. ACCESS POINT TO CARREL ST.	\$597,515.02				
CARREL ST		K1	K2		
		\$42,268.12	\$214,234.12		
INCIDENTALS	\$970,000.00				
		PREFERRED ALTERNATIVE			
GRAND TOTAL PREFERRED ALTERNATIVES		\$12,662,025.94			

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PAPER SIZE: ANSI D (34.00 x 22.00 inches) DATE: 5/14/2026 TIME: 10:33:14 PM USER: Mosier, Terrence
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LEGEND

- SEGMENT 1
- SEGMENT 2
- SEGMENT 3



OASIS TRAIL
COST ESTIMATE MAP

DESIGN AGENCY
ARCADIS
100 E CAMPUS VIEW BLVD SUITE 200
COLUMBUS, OH 43260
www.arcadis.com

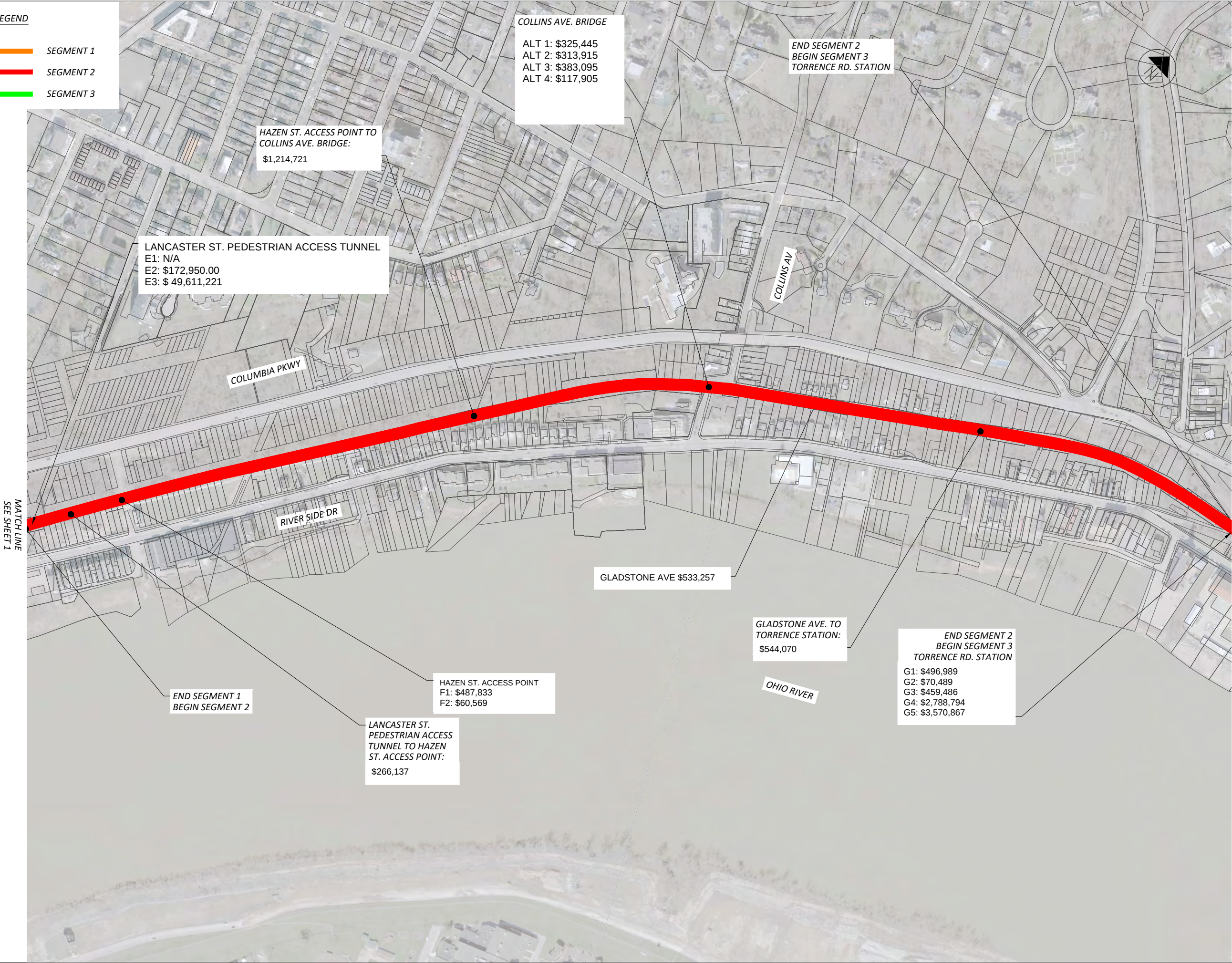
DESIGNER	TFM
REVIEWER	MJB
PROJECT ID	122971
SHEET	1
TOTAL	3

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LEGEND

- SEGMENT 1
- SEGMENT 2
- SEGMENT 3



OASIS TRAIL
COST ESTIMATE MAP

DESIGN AGENCY
ARCADIS
100 E CAMPUS VIEW BLVD SUITE 200
COLUMBUS, OH 43260
614.396.2100
www.arcadis.com

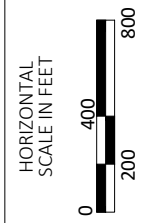
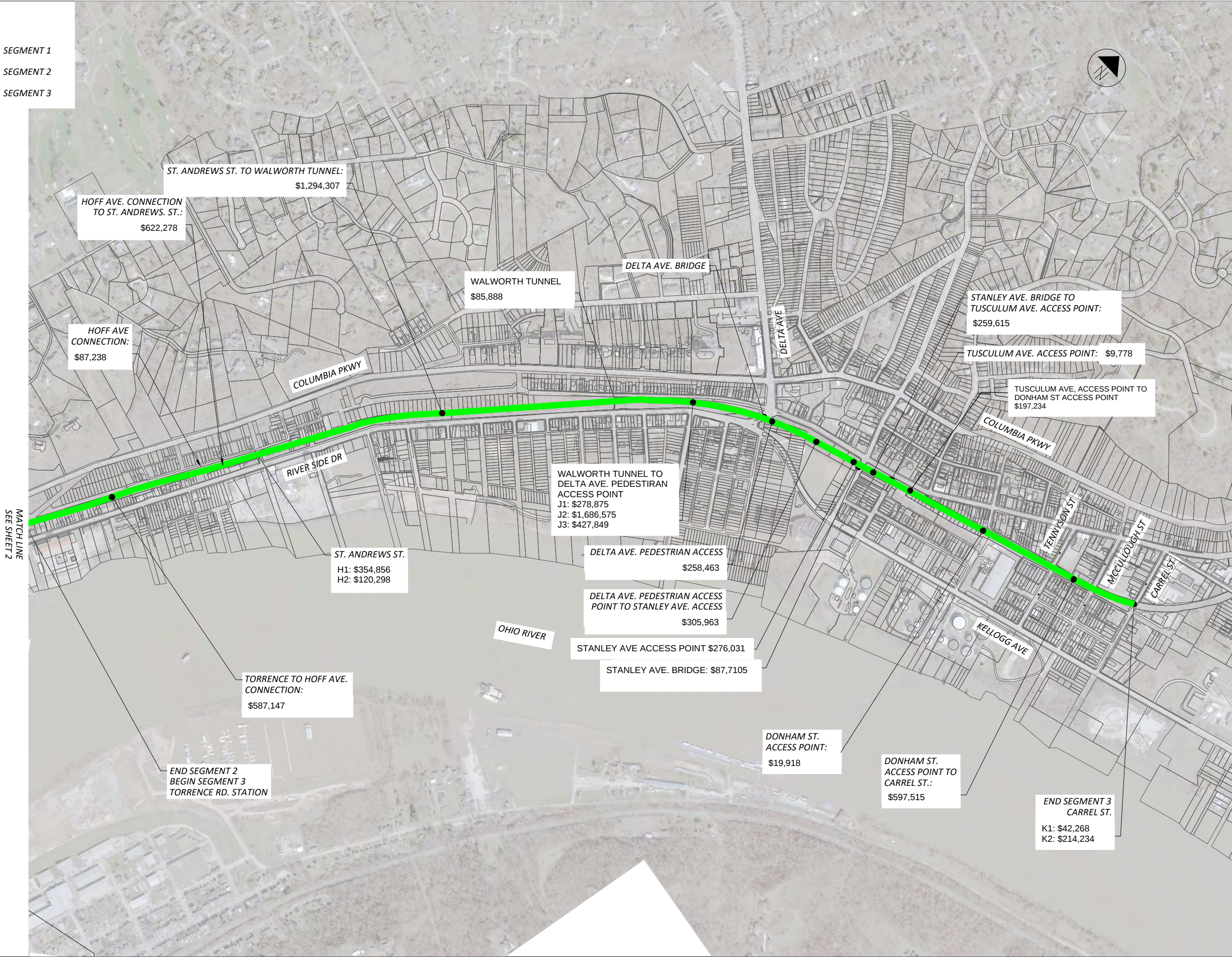
DESIGNER	
TFM	
REVIEWER	
MJB 05-29-26	
PROJECT ID	
122971	
SHEET	TOTAL
2	3

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PAPER SIZE: ANSI D (34.00 x 22.00 inches) DATE: 5/14/2026 TIME: 10:34:06 PM USER: Mosier, Terrence
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LEGEND

- SEGMENT 1
- SEGMENT 2
- SEGMENT 3



OASIS TRAIL
COST ESTIMATE MAP

DESIGN AGENCY	
 100 E CAMPUS VIEW BLVD SUITE 200 COLUMBIA, MO 64114 www.arcadis.com	
DESIGNER	
TFM	
REVIEWER	
MJB 05-29-26	
PROJECT ID	
122971	
SHEET	TOTAL
3	3

SEGMENT 1

BEGIN PROJECT (SAWYER POINT) TO MONTGOMERY INN BOAT HOUSE

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$10,000.00
Pavement Removed	SY	\$17	302	\$5,137.78
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	127	\$4,434.95
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	434	\$1,303.33
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	230	\$6,900.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	170	\$3,910.00
Curb, Type 6	FT	\$42	10	\$420.00
Concrete Walk	SF	\$10	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	145	\$14,481.48
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	1	\$1,115.00
Manhole Adjusted To Grade	EA	\$1,050	1	\$1,050.00
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	24	\$8,447.53
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	30	\$10,559.41
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	72	\$5,720.19
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.04	\$1,089.02
Structures				
Segmental/ Retaining Wall	SF	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$22,370.61
Inflation Factor	LUMP	15.3%		\$14,831.71
Total			\$111,771.01	

MONTGOMERY INN BOAT HOUSE TO INTERNATIONAL FRIENDSHIP PARK - PLAZA OF THE SUN (ALTERNATIVES)

Item	Unit	Unit Price	ALTERNATIVE A1 (CONSTRAINED-10ft)		ALTERNATIVE A2 (11FT TRAIL)		ALTERNATIVE A3 (12FT TRAIL)	
			QTY	COST	QTY	COST	QTY	COST
Roadway								
Clearing and Grubbing	LUMP			\$20,000.00		\$20,000.00		\$20,000.00
Pavement Removed	SY	\$17	233	\$3,962.89	233	\$3,962.89	233	\$3,962.89
Walk Removed	SF	\$4	-		2937	\$11,748.00	2937	\$11,748.00
Steps Removed	FT	\$68	-		-		-	
Curb Removed	FT	\$11	-		-		-	
Handrail Removed	FT	\$8	-		-		-	
Retaining Wall Removed	SF	\$25	-		-		-	
Removal Misc.: Fence and Bollards	FT	\$5	-		2937	\$14,685.00	2937	\$14,685.00
Guardrail Removed	FT	\$3	-		-		-	
Excavation	CY	\$35	1428	\$49,969.79	1523	\$53,301.11	1618	\$56,630.00
Embankment	CY	\$30	-		-		-	
Subgrade Compaction	SY	\$3	4895	\$14,685.00	5221	\$15,664.00	5548	\$16,644.00
Seeding and Mulching	SY	\$5	-		3590	\$17,948.33	3263	\$16,315.00
Topsoil, T=4"	CY	\$6	-		10758	\$64,549.39	-	
Fence, Misc.: 8' Chain Link	FT	\$30	2937	\$88,110.00	2937	\$88,110.00	2937	\$88,110.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-		-	
Curb Ramp	SF	\$23	300	\$6,900.00	320	\$7,360.00	340	\$7,820.00
Curb, Type 6	FT	\$42	20	\$840.00	20	\$840.00	20	\$840.00
Concrete Walk	SF	\$10						
Guardrail, Type MGS	FT	\$22	-		-		-	
Subgrade Remediation	CY	\$100	1632	\$163,166.67	1740	\$174,044.44	1849	\$184,900.00
Concrete Steps	FT	\$496	-		-		-	
Railing	FT	\$150	-		-		-	
Drainage & Erosion Control								
Catch Basin Adjusted To Grade	EA	\$1,115	-		-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		1	\$1,050.00	1	\$1,050.00
Catch Basin/ Manhole Removed	EA	\$800	-		-			
Manhole	EA	\$6,000	-		-			
Catch Basin	EA	\$5,000	-		-			
Conduit <24"	LUMP		-		-		-	
Slope Erosion Protection (Vegetated Filter Strip)	SY	\$2	-		3590	\$7,179.33	-	
Pavement								
Asphalt Concrete Surface Course, Type 1	CY	\$350	282	\$98,580.09	300	\$104,925.46	318	\$111,300.00
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	350	\$122,375.23	372	\$130,306.94	395	\$138,250.00
Unreinforced Concrete Base	CY	\$215	39	\$8,353.15	39	\$8,353.15	39	\$8,385.00
Aggregate Base	CY	\$79	855	\$67,520.13	909	\$71,816.85	963	\$76,077.00
Traffic Control								
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.56	\$13,906.25	0.56	\$13,906.25	0.56	\$13,906.25
Structures								
Segmental/ Retaining Wall	SF	\$75.00	-		-		-	
Rookwood Bridge Modifications	LUMP		-		-		-	
Delta Ave Bridge Modifications	LUMP		-		-		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-		-		-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		-		-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		-		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-		-		-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-		-		-	
Walworth Tunnel	LUMP		-		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-		-	
Congress Tunnel	LUMP		-		-		-	
Railroad								
Rookwood Bridge Track Shift	LUMP		-		-		-	
Delta Ave Bridge Track Shift	LUMP		-		-		-	
Incidentals								
Contingency	LUMP	30.0%		\$197,510.76		\$242,925.35		\$231,186.94
Inflation Factor	LUMP	15.3%		\$130,949.63		\$161,059.50		\$153,276.94
Total			\$986,829.59		\$1,213,736.01		\$1,155,087.02	

INTERNATIONAL FRIENDSHIP PARK - PLAZA OF THE SUN (ALTERNATIVES)

Item	Unit	Unit Price	ALTERNATIVE B1 (CONSTRAINED-8ft)		ALTERNATIVE B2 (12FT TRAIL)	
			QTY	COST	QTY	COST
Roadway						
Clearing and Grubbing	LUMP			\$5,000.00		\$5,000.00
Pavement Removed	SY	\$17	123	\$2,094.78	261	\$4,429.44
Walk Removed	SF	\$4	-		-	
Steps Removed	FT	\$68	-		-	
Curb Removed	FT	\$11	-		206	\$2,266.00
Handrail Removed	FT	\$8	-		-	
Retaining Wall Removed	SF	\$25	-		1030	\$25,750.00
Removal Misc.: Fence and Bollards	FT	\$5	-		-	
Guardrail Removed	FT	\$3	-		206	\$618.00
Excavation	CY	\$35	170	\$5,957.13	223	\$7,790.09
Embankment	CY	\$30	-		-	
Subgrade Compaction	SY	\$3	584	\$1,750.67	763	\$2,289.33
Seeding and Mulching	SY	\$5	-		-	
Topsoil, T=4"	CY	\$6	-		-	
Fence, Misc.: 8' Chain Link	FT	\$30	-		404	\$12,120.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-	
Curb Ramp	SF	\$23	130	\$2,990.00	170	\$3,910.00
Curb, Type 6	FT	\$42	10	\$420.00	216	\$9,072.00
Concrete Walk	SF	\$10				
Guardrail, Type MGS	FT	\$22	-		206	\$4,532.00
Subgrade Remediation	CY	\$100	195	\$19,451.85	254	\$25,437.04
Concrete Steps	FT	\$496	-		-	
Railing	FT	\$150	-		-	
Drainage & Erosion Control						
Catch Basin Adjusted To Grade	EA	\$1,115	-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		-	
Catch Basin/ Manhole Removed	EA	\$800	-		-	
Manhole	EA	\$6,000	-		-	
Catch Basin	EA	\$5,000	-		-	
Conduit <24"	LUMP		-		-	
BMP Vegetated Filter Strip	SY	\$5	-		-	
Pavement						
Asphalt Concrete Surface Course, Type 1	CY	\$350	33	\$11,546.58	49	\$17,302.85
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	41	\$14,516.42	60	\$21,012.42
Unreinforced Concrete Base	CY	\$215	21	\$4,415.46	28	\$6,055.83
Aggregate Base	CY	\$79	100	\$7,863.75	184	\$14,497.96
Traffic Control						
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.08	\$1,912.88	0.08	\$1,912.88
Structures						
Segmental/ Retaining Wall	SF	\$75.00	-		1030	\$77,250.00
Rookwood Bridge Modifications	LUMP		-		-	
Delta Ave Bridge Modifications	LUMP		-		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-		-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-		-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-		-	
Walworth Tunnel	LUMP		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-	
Congress Tunnel	LUMP		-		-	
Railroad						
Rookwood Bridge Track Shift	LUMP		-		-	
Delta Ave Bridge Track Shift	LUMP		-		-	
					-	
Incidentals						
Contingency	LUMP	30.0%		\$23,375.85		\$72,373.76
Inflation Factor	LUMP	15.3%		\$15,498.19		\$47,983.80
Total			\$116,793.56		\$361,603.42	

INTERNATIONAL FRIENDSHIP PARK - PLAZA OF THE SUN ALTERNATIVES TO KEMPER LN ACCESS POINT

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$50,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	896	\$31,372.48
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	3073	\$9,219.67
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	1627	\$48,810.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Concrete Walk	SF	\$10		
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	1024	\$102,440.74
Concrete Steps	FT	\$496		
Railing	FT	\$150		
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	171	\$59,757.10
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	213	\$74,696.37
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	512	\$40,464.09
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.31	\$7,703.60
Structures				
Segmental/ Retaining Wall	SF	\$75.00	2610	\$195,750.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$186,064.21
Inflation Factor	LUMP	15.3%		\$123,360.57
Total			\$929,638.84	

KEMPER LN ACCESS POINT TO ROOKWOOD BRIDGE (ALTERNATIVES)

Item	Unit	Unit Price	ALTERNATIVE C1 (CONSTRAINED - 8ft)		ALTERNATIVE C2 (12FT TRAIL)		ALTERNATIVE C2 (12FT TRAIL)	
			QTY	COST	QTY	COST	QTY	COST
Roadway								
Clearing and Grubbing	LUMP			\$20,000.00		\$20,000.00		\$20,000.00
Pavement Removed	SY	\$17	-		-		-	
Walk Removed	SF	\$4	-		5719	\$22,876.00	-	
Steps Removed	FT	\$68	-		-		-	
Curb Removed	FT	\$11	-		602	\$6,622.00	-	
Handrail Removed	FT	\$8	-		-		-	
Retaining Wall Removed	SF	\$25	-		6000	\$150,000.00	-	
Removal Misc.: Fence and Bollards	FT	\$5	-		602	\$3,010.00	-	
Guardrail Removed	FT	\$3	-		-		-	
Excavation	CY	\$35	254	\$8,876.71	332	\$11,608.01	332	\$11,608.01
Embankment	CY	\$30	-		-		-	
Subgrade Compaction	SY	\$3	870	\$2,608.67	1137	\$3,411.33	1137	\$3,411.33
Seeding and Mulching	SY	\$5	-		-		-	
Topsoil, T=4"	CY	\$6	-		-		-	
Fence, Misc.: 8' Chain Link	FT	\$30	1204	\$36,120.00	1204	\$36,120.00	1204	\$36,120.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-		-	
Curb Ramp	SF	\$23	130	\$2,990.00	170	\$3,910.00	130	\$2,990.00
Curb, Type 6	FT	\$42	10	\$420.00	612	\$25,704.00	10	\$420.00
Concrete Walk	SF	\$10	-		5719	\$57,190.00	-	
Guardrail, Type MGS	FT	\$22	-		-		-	
Subgrade Remediation	CY	\$100	290	\$28,985.19	379	\$37,903.70	379	\$37,903.70
Concrete Steps	FT	\$496	-		-		-	
Railing	FT	\$150	-		-		-	
Drainage & Erosion Control								
Catch Basin Adjusted To Grade	EA	\$1,115	-		-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		-		-	
Catch Basin/ Manhole Removed	EA	\$800	-		5	\$4,000.00	-	
Manhole	EA	\$6,000	-		2	\$12,000.00	-	
Catch Basin	EA	\$5,000	-		3	\$15,000.00	-	
Conduit <24"	LUMP		-		-	\$25,000.00	-	
BMP Vegetated Filter Strip	SY	\$5	-		-		-	
Pavement								
Asphalt Concrete Surface Course, Type 1	CY	\$350	48	\$16,908.02	63	\$22,110.49	63	\$22,110.49
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	60	\$21,135.03	79	\$27,638.12	79	\$17,925.29
Unreinforced Concrete Base	CY	\$215	-		-		-	
Aggregate Base	CY	\$79	145	\$11,449.15	190	\$14,971.96	190	\$14,971.96
Traffic Control								
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.11	\$2,850.38	0.11	\$2,850.38	0.11	\$2,850.38
Structures								
Segmental/ Retaining Wall	SF	\$75.00	-		-		-	
Rookwood Bridge Modifications	LUMP		-		-		-	
Delta Ave Bridge Modifications	LUMP		-		-		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-		6000	\$720,000.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		-		-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		-		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-		-		-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-		-		-	
Walworth Tunnel	LUMP		-		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-		-	
Congress Tunnel	LUMP		-		-		-	
Railroad								
Rookwood Bridge Track Shift	LUMP		-		-		-	
Delta Ave Bridge Track Shift	LUMP		-		-		-	
Incidentals								
Contingency	LUMP	30.0%		\$45,702.94		\$366,577.80		\$51,093.35
Inflation Factor	LUMP	15.3%		\$30,301.05		\$243,041.08		\$33,874.89
Total			\$228,347.14		\$1,831,544.88		\$255,279.42	

ROOKWOOD BRIDGE (ALTERNATIVES)								
Item	Unit	Unit Price	ALTERNATIVE D1 (CONSTRAINED)		ALTERNATIVE D2 (12FT TRAIL)		ALTERNATIVE D3 (12FT TRAIL) W/ TRACK REALIGNMENT	
			QTY	COST	QTY	COST	QTY	COST
Roadway								
Clearing and Grubbing	LUMP		-		-		-	
Pavement Removed	SY	\$17	-		-		-	
Walk Removed	SF	\$4	-		-		-	
Steps Removed	FT	\$68	-		-		-	
Curb Removed	FT	\$11	-		-		-	
Handrail Removed	FT	\$8	-		-		-	
Retaining Wall Removed	SF	\$25	-		-		-	
Removal Misc.: Fence and Bollards	FT	\$5	180	\$900.00	180	\$900.00	-	
Guardrail Removed	FT	\$3	-		-		-	
Excavation	CY	\$35	-		-		-	
Embankment	CY	\$30	-		-		-	
Subgrade Compaction	SY	\$3	-		-		-	
Seeding and Mulching	SY	\$5	-		-		-	
Topsoil, T=4"	CY	\$6	-		-		-	
Fence, Misc.: 8' Chain Link	FT	\$30	360	\$10,800.00	360	\$10,800.00	180	\$5,400.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-		-	
Curb Ramp	SF	\$23	-		-		-	
Curb, Type 6	FT	\$42	-		-		-	
Concrete Walk	SF	\$10	-		-		-	
Guardrail, Type MGS	FT	\$22	-		-		-	
Subgrade Remediation	CY	\$100	-		-		-	
Concrete Steps	FT	\$496	-		-		-	
Railing	FT	\$150	-		-		-	
Drainage & Erosion Control								
Catch Basin Adjusted To Grade	EA	\$1,115	-		-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		-		-	
Catch Basin/ Manhole Removed	EA	\$800						
Manhole	EA	\$6,000						
Catch Basin	EA	\$5,000	-		-		-	
Conduit <24"	LUMP		-		-		-	
BMP Vegetated Filter Strip	SY	\$5	-		-		-	
Pavement								
Asphalt Concrete Surface Course, Type 1	CY	\$350	10	\$3,500.00	18	\$6,222.22	19	\$6,611.11
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	10	\$3,500.00	18	\$6,222.22	19	\$6,611.11
Unreinforced Concrete Base	CY	\$215	-		-		-	
Aggregate Base	CY	\$79	30	\$2,370.00	53	\$4,213.33	57	\$4,476.67
Traffic Control								
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.03	\$852.27	0.03	\$852.27	0.03	\$852.27
Structures								
Segmental/ Retaining Wall	FT	\$75.00	-		-		-	
Rookwood Bridge Modifications	LUMP			\$50,000.00		\$425,000.00		\$50,000.00
Delta Ave Bridge Modifications	LUMP		-		-		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-		-		-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		-		-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		-		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-		-		-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-		-		-	
Walworth Tunnel	LUMP		-		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-		-	
Congress Tunnel	LUMP		-		-		-	
Railroad								
Rookwood Bridge Track Shift	LUMP		-		-			\$192,000.00
Delta Ave Bridge Track Shift	LUMP		-		-		-	
Incidentals								
Contingency	LUMP	30.0%		\$6,576.68		\$8,763.02		\$64,785.35
Inflation Factor	LUMP	15.3%		\$12,010.34		\$70,834.88		\$50,602.69
Total			\$90,509.29		\$533,807.94		\$381,339.20	

ROOKWOOD BRIDGE TO LANCASTER TUNNEL

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$20,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	1043	\$36,520.88
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	3578	\$10,732.67
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	1894	\$56,820.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Concrete Walk	SF	\$10	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	842	\$84,177.78
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800		
Manhole	EA	\$6,000		
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	199	\$69,563.58
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	248	\$86,954.48
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	596	\$47,104.48
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.36	\$8,967.80
Structures				
Segmental/ Retaining Wall	FT	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$126,252.50
Inflation Factor	LUMP	15.3%		\$83,705.41
Total			\$630,799.57	

SEGMENT 2

LANCASTER ST. PEDESTRIAN ACCESS TUNNEL

Item	Unit	Unit Price	ALTERNATIVE E1 (REHABILITATION)	ALTERNATIVE E2 (ABANDONMENT)	ALTERNATIVE E3 (REPLACEMENT)			
			QTY	COST	QTY	COST	QTY	COST
Roadway								
Clearing and Grubbing	LUMP		-		-		-	\$1,000.00
Pavement Removed	SY	\$17	-		-		-	
Walk Removed	SF	\$4	-		-		-	
Steps Removed	FT	\$68	-		-		-	
Curb Removed	FT	\$11	-		-		-	
Handrail Removed	FT	\$8	-		-		-	
Retaining Wall Removed	SF	\$25	-		-		-	
Removal Misc.: Fence and Bollards	FT	\$5	-		-		-	
Guardrail Removed	FT	\$3	-		-		-	
Excavation	CY	\$35	-		-		58	\$2,022.38
Embankment	CY	\$30	-		-		-	
Subgrade Compaction	SY	\$3	-		-		198	\$594.33
Seeding and Mulching	SY	\$5	-		-		-	
Topsoil, T=4"	CY	\$6	-		-		-	
Fence, Misc.: 8' Chain Link	FT	\$30	-		-		-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-		-	
Curb Ramp	SF	\$23	-		-		-	
Curb, Type 6	FT	\$42	-		-		-	
Concrete Walk	SF	\$10	-		-		-	
Guardrail, Type MGS	FT	\$22	-		-		-	
Subgrade Remediation	CY	\$100	-		-		66	\$6,603.70
Concrete Steps	FT	\$496	-		-		-	
Railing	FT	\$150	-		-		-	
Drainage & Erosion Control								
Catch Basin Adjusted To Grade	EA	\$1,115	-		-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		-		-	
Catch Basin/ Manhole Removed	EA	\$800	-		-		-	
Manhole	EA	\$6,000	-		-		-	
Catch Basin	EA	\$5,000	-		-		-	
Conduit <24"	LUMP		-		-		-	
BMP Vegetated Filter Strip	SY	\$5	-		-		-	
Pavement								
Asphalt Concrete Surface Course, Type 1	CY	\$350	-		-		11	\$3,852.16
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	-		-		14	\$4,815.20
Unreinforced Concrete Base	CY	\$215	-		-		-	
Aggregate Base	CY	\$79	-		-		33	\$2,608.46
Traffic Control								
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-		-		-	
Structures								
Segmental/ Retaining Wall	SF	\$75.00	-		-		-	
Rookwood Bridge Modifications	LUMP		-		-		-	
Delta Ave Bridge Modifications	LUMP		-		-		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-		-		-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		-		-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		\$150,000.00		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-			\$43,000,000.00
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-		-		-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-		-		-	
Wahworth Tunnel	LUMP		-		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-		-	
Congress Tunnel	LUMP		-		-		-	
Railroad								
Rookwood Bridge Track Shift	LUMP		-		-		-	
Delta Ave Bridge Track Shift	LUMP		-		-		-	
Incidentals								
Contingency	LUMP	30.0%				\$0.00		\$6,448.87
Inflation Factor	LUMP	15.3%				\$22,950.00		\$6,583,275.60
Total			N/A		\$172,950.00		\$49,611,220.72	

LANCASTER ST. PEDESTRIAN ACCESS TUNNEL TO HAZEN ST. ACCESS POINT

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$10,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	870	\$21,750.00
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	193	\$6,748.84
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	661	\$1,983.33
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	350	\$10,500.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Concrete Walk	SF	\$10	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	220	\$22,037.04
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	37	\$12,854.94
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	46	\$16,068.67
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	110	\$8,704.63
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.07	\$1,657.20
Structures				
Segmental/ Retaining Wall	SF	\$75.00	870	\$65,250.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$53,266.40
Inflation Factor	LUMP	15.3%		\$35,315.62
Total			\$266,136.67	

HAZEN ST. ACCESS POINT						
Item	Unit	Unit Price	ALTERNATIVE F1 (SWITCHBACK)		ALTERNATIVE F2 (10 FT TRAIL)	
			QTY	COST	QTY	COST
Roadway						
Clearing and Grubbing	LUMP			\$2,500.00		\$1,000.00
Pavement Removed	SY	\$17	-		-	
Walk Removed	SF	\$4	-		-	
Steps Removed	FT	\$68	-		-	
Curb Removed	FT	\$11	-		-	
Handrail Removed	FT	\$8	-		-	
Retaining Wall Removed	SF	\$25	-		-	
Removal Misc.: Fence and Bollards	FT	\$5	-		-	
Guardrail Removed	FT	\$3	-		-	
Excavation	CY	\$35	58	\$2,022.38	47	\$1,652.62
Embankment	CY	\$30	-		-	
Subgrade Compaction	SY	\$3	198	\$594.33	162	\$485.67
Seeding and Mulching	SY	\$5	-		-	
Topsoil, T=4"	CY	\$6	-		-	
Fence, Misc.: 8' Chain Link	FT	\$30	-		-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-	
Curb Ramp	SF	\$23	120	\$2,760.00	120	\$2,760.00
Curb, Type 6	FT	\$42	-		-	
Concrete Walk	SF	\$10	-		-	
Guardrail, Type MGS	FT	\$22	-		-	
Subgrade Remediation	CY	\$100	198	\$19,818.52	54	\$5,396.30
Concrete Steps	FT	\$496	-		25	\$12,400.00
Railing	FT	\$150	782	\$117,300.00	50	\$7,500.00
Drainage & Erosion Control						
Catch Basin Adjusted To Grade	EA	\$1,115	-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		-	
Catch Basin/ Manhole Removed	EA	\$800	-		-	
Manhole	EA	\$6,000	-		-	
Catch Basin	EA	\$5,000	-		-	
Conduit <24"	LUMP		-		-	
BMP Vegetated Filter Strip	SY	\$5	-		-	
Pavement						
Asphalt Concrete Surface Course, Type 1	CY	\$350	33	\$11,560.80	9	\$3,147.84
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	41	\$14,451.00	11	\$3,934.80
Unreinforced Concrete Base	CY	\$215	-		-	
Aggregate Base	CY	\$79	99	\$7,828.31	27	\$2,131.54
Traffic Control						
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-		-	
Structures						
Segmental/ Retaining Wall	SF	\$75.00	1955	\$146,625.00	-	
Rookwood Bridge Modifications	LUMP		-		-	
Delta Ave Bridge Modifications	LUMP		-		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-		-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-		-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-		-	
Walworth Tunnel	LUMP		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-	
Congress Tunnel	LUMP		-		-	
Railroad						
Rookwood Bridge Track Shift	LUMP					
Delta Ave Bridge Track Shift	LUMP					
Incidentals						
Contingency	LUMP	30.0%		\$97,638.11		\$12,122.63
Inflation Factor	LUMP	15.3%		\$64,734.06		\$8,037.30
Total						
			\$487,832.53		\$60,568.68	

HAZEN ST. ACCESS POINT TO COLLINS AVE. BRIDGE

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$50,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	1200	\$30,000.00
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	1366	\$47,819.24
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	4684	\$14,053.00
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	2527	\$75,810.00
Fence, Misc.: Wood Bike Railing	FT	\$85	800	\$68,000.00
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Concrete Walk	SF	\$10	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	1561	\$156,144.44
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	260	\$91,084.26
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	325	\$113,855.32
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	781	\$61,677.06
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.48	\$11,964.96
Structures				
Segmental/ Retaining Wall	SF	\$75.00	1200	\$90,000.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$243,122.48
Inflation Factor	LUMP	15.3%		\$161,190.21
Total			\$1,214,720.97	

COLLINS AVE. BRIDGE

Item	Unit	Unit Price	12FT TRAIL			
			QTY	COST		
Roadway						
Clearing and Grubbing	LUMP		-			
Pavement Removed	SY	\$17	-			
Walk Removed	SF	\$4	-			
Steps Removed	FT	\$68	-			
Curb Removed	FT	\$11	-			
Handrail Removed	FT	\$8	-			
Retaining Wall Removed	SF	\$25	-			
Removal Misc.: Fence and Bollards	FT	\$5	-			
Guardrail Removed	FT	\$3	-			
Excavation	CY	\$35	-			
Embankment	CY	\$30	-			
Subgrade Compaction	SY	\$3	-			
Seeding and Mulching	SY	\$5	-			
Topsoil, T=4"	CY	\$6	-			
Fence, Misc.: 8' Chain Link	FT	\$30	135	\$4,050.00		
Fence, Misc.: Wood Bike Railing	FT	\$85	-			
Curb Ramp	SF	\$23	-			
Curb, Type 6	FT	\$42	-			
Concrete Walk	SF	\$10	-			
Guardrail, Type MGS	FT	\$22	-			
Subgrade Remediation	CY	\$100	-			
Concrete Steps	FT	\$496	-			
Railing	FT	\$150	-			
Drainage & Erosion Control						
Catch Basin Adjusted To Grade	EA	\$1,115	-			
Manhole Adjusted To Grade	EA	\$1,050	-			
Catch Basin/ Manhole Removed	EA	\$800	-			
Manhole	EA	\$6,000	-			
Catch Basin	EA	\$5,000	-			
Conduit <24"	LUMP		-			
BMP Vegetated Filter Strip	SY	\$5	-			
Pavement						
Asphalt Concrete Surface Course, Type 1	CY	\$350	14	\$4,958.33		
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	18	\$6,197.92		
Unreinforced Concrete Base	CY	\$215	-			
Aggregate Base	CY	\$79	43	\$3,357.50		
Traffic Control						
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.03	\$639.20		
Structures						
Segmental/ Retaining Wall	SF	\$75.00	-			
Rookwood Bridge Modifications	LUMP		-			
Delta Ave Bridge Modifications	LUMP		-			
Rookwood Retaining Wall Relocation	SF	\$120.00	-			
Delta Ave Retaining Wall Relocation	SF	\$120.00	-			
Lancaster Tunnel and Stairwell Abandonment	LUMP		-			
Lancaster Tunnel and Stairwell Replacement	LUMP		-			
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-			
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-			
Walworth Tunnel	LUMP		-			
Stanley Ave Bridge Modifications	LUMP		-			
Congress Tunnel	LUMP		-			
Railroad						
Rookwood Bridge Track Shift	LUMP		-			
Delta Ave Bridge Track Shift	LUMP		-			
Incidentals						
Contingency	LUMP	30.0%				
Inflation Factor	LUMP	15.3%				
Total			\$19,202.95			

COLLINS AVE BRIDGE MODIFICATIONS										
Item	Unit	Unit Price	ALTERNATIVE 1		ALTERNATIVE 2		ALTERNATIVE 3		ALTERNATIVE 4	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST
Structures										
Composite Prestressed Concrete Box Beams	LUMP		1	\$280,000.00	450		-		-	
Reinforced Concrete Slab	LUMP		-		1	\$270,000.00	-		-	
Prefabricated Steel Pedestrian Truss	LUMP		-		-		1	\$330,000.00	-	
Reinforced Concrete Deck on Existing Superstructure	LUMP		-		-		-		1	\$100,000.00
SUP	LUMP			\$17,024.83		\$17,024.83		\$17,024.83		\$17,024.83
Incidentals										
Contingency	LUMP	30%		\$5,107.45		\$5,107.45		\$5,107.45		\$5,107.45
Inflation Factor	LUMP	15.3%		\$45,444.80		\$43,914.80		\$53,094.80		\$17,904.80
Total				\$325,444.80		\$313,914.80		\$383,094.80		\$117,904.80
GLADSTONE AVE.										
Item	Unit	Unit Price	PAVEMENT EXTENSION							
			QTY	COST						
Roadway										
Clearing and Grubbing	LUMP			\$2,500.00						
Pavement Removed	SY	\$17	1497	\$25,454.67						
Walk Removed	SF	\$4	-							
Steps Removed	FT	\$68	-							
Curb Removed	FT	\$11	-							
Handrail Removed	FT	\$8	-							
Retaining Wall Removed	SF	\$25	-							
Removal Misc.: Fence and Bollards	FT	\$5	-							
Guardrail Removed	FT	\$3	-							
Excavation	CY	\$35	528	\$18,469.71						
Embankment	CY	\$30	-							
Subgrade Compaction	SY	\$3	15161	\$45,481.50						
Seeding and Mulching	SY	\$5	-							
Topsoil, T=4"	CY	\$6	-							
Fence, Misc.: 8' Chain Link	FT	\$30	1123	\$33,690.00						
Fence, Misc.: Wood Bike Railing	FT	\$85	-							
Curb Ramp	SF	\$23	-							
Curb, Type 6	FT	\$42	-							
Concrete Walk	SF	\$10	-							
Guardrail, Type MGS	FT	\$22	-							
Subgrade Remediation	CY	\$100	603	\$60,309.26						
Concrete Steps	FT	\$496	-							
Railing	FT	\$150	-							
Drainage & Erosion Control										
Catch Basin Adjusted To Grade	EA	\$1,115	1	\$1,115.00						
Manhole Adjusted To Grade	EA	\$1,050	4	\$4,200.00						
Catch Basin/ Manhole Removed	EA	\$800	-							
Manhole	EA	\$6,000	-							
Catch Basin	EA	\$5,000	-							
Conduit <24"	LUMP		-							
BMP Vegetated Filter Strip	SY	\$5	-							
Pavement										
Asphalt Concrete Surface Course, Type 1	CY	\$350	101	\$35,180.40						
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	126	\$43,975.50						
Unreinforced Concrete Base	CY	\$215	-							
Aggregate Base	CY	\$79	302	\$23,822.16						
Traffic Control										
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.21	\$5,317.23						
Structures										
Segmental/ Retaining Wall	SF	\$75.00	750	\$56,250.00						
Rookwood Bridge Modifications	LUMP		-							
Delta Ave Bridge Modifications	LUMP		-							
Rookwood Retaining Wall Relocation	SF	\$120.00	-							
Delta Ave Retaining Wall Relocation	SF	\$120.00	-							
Lancaster Tunnel and Stairwell Abandonment	LUMP		-							
Lancaster Tunnel and Stairwell Replacement	LUMP		-							
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-							
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-							
Walworth Tunnel	LUMP		-							
Stanley Ave Bridge Modifications	LUMP		-							
Congress Tunnel	LUMP		-							
Railroad										
Rookwood Bridge Track Shift	LUMP									
Delta Ave Bridge Track Shift	LUMP									
Incidentals										
Contingency	LUMP	30.0%		\$106,729.63						
Inflation Factor	LUMP	15.3%		\$70,761.74						
Total				\$533,256.81						

GLADSTONE AVE. TO TORRENCE STATION

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$50,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	634	\$22,174.77
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	2172	\$6,516.67
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	1150	\$34,500.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Concrete Walk	SF	\$10	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	724	\$72,407.41
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	1	\$1,050.00
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	121	\$42,237.65
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	151	\$52,797.07
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	362	\$28,600.93
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.22	\$5,445.08
Structures				
Segmental/ Retaining Wall	SF	\$75.00	630	\$47,250.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$108,893.87
Inflation Factor	LUMP	15.3%		\$72,196.64
Total			\$544,070.07	

TORRENCE RD STATION												
Item	Unit	Unit Price	ALTERNATIVE G1 (RIVERSIDE DR. SWITCHBACK)		ALTERNATIVE G2 (RIVERSIDE DR. STRAIGHT PATH)		ALTERNATIVE G3 (COLUMBIA PKWY. SWITCHBACK)		ALTERNATIVE G4 (COLUMBIA PKWY. ELEVATED BWLK)		ALTERNATIVE G5 (COLUMBIA PKWY. ELEVATED SWITCHBACK)	
			QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Roadway												
Clearing and Grubbing	LUMP		-	\$10,000.00	-	\$2,000.00	-	\$20,000.00	-	\$20,000.00	-	\$20,000.00
Pavement Removed	SY	\$17	-		-		-		-		-	
Walk Removed	SF	\$4	-		-		-		-		-	
Steps Removed	FT	\$68	-		-		-		-		-	
Curb Removed	FT	\$11	-		-		-		-		-	
Handrail Removed	FT	\$8	-		-		-		-		-	
Retaining Wall Removed	SF	\$25	330	\$8,250	-		-		-		93	\$2,325
Removal Misc.: Fence and Bollards	FT	\$5	-		-		-		-		-	
Guardrail Removed	FT	\$3	-		-		-		-		-	
Excavation	CY	\$35	318	\$11,142	124	\$4,332.87	503	\$17,611.64	195	\$6,819.17	-	
Embankment	CY	\$30	-		-		-		-		-	
Subgrade Compaction	SY	\$3	1091	\$3,274	424	\$1,273.33	1725	\$5,175.67	668	\$2,004.00	-	
Seeding and Mulching	SY	\$5	-		-		-		-		-	
Topsoil, T=4"	CY	\$6	-		-		-		-		-	
Fence, Misc.: 8' Chain Link	FT	\$30	-		-		532	\$15,960.00	-		-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-		-		-		-	
Curb Ramp	SF	\$23	-		-		-		-		-	
Curb, Type 6	FT	\$42	-		-		-		-		-	
Concrete Walk	SF	\$10	-		-		-		-		-	
Guardrail, Type MGS	FT	\$22	-		-		-		-		-	
Subgrade Remediation	CY	\$100	364	\$36,381	141	\$14,148.15	575	\$57,507.41	223	\$22,266.67	-	
Concrete Steps	FT	\$496	-		-		-		-		-	
Railing	FT	\$150	-		-		-		-		-	
Drainage & Erosion Control												
Catch Basin Adjusted To Grade	EA	\$1,115	-		1	\$1,115.00	-		-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		-		1	\$1,050.00	1	\$1,050.00	-	
Catch Basin/ Manhole Removed	EA	\$800	-		-		-		-		-	
Manhole	EA	\$6,000	-		-		-		-		-	
Catch Basin	EA	\$5,000	-		-		-		-		-	
Conduit <24"	LUMP		-		-		-		-		-	
BMP Vegetated Filter Strip	SY	\$5	-		-		-		-		-	
Pavement												
Asphalt Concrete Surface Course, Type 1	CY	\$350	61	\$21,223	24	\$8,253.09	96	\$33,545.99	37	\$12,988.89	-	
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	76	\$26,528	29	\$10,316.36	120	\$41,932.48	46	\$16,236.11	-	
Unreinforced Concrete Base	CY	\$215	-		-		-		-		-	
Aggregate Base	CY	\$79	182	\$14,371	71	\$5,588.52	288	\$22,715.43	111	\$8,795.33	-	
Traffic Control												
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-		-		-		-		-	
Structures												
Segmental/ Retaining Wall	SF	\$75.00	2672	\$200,400	-		1214	\$91,050.00	-		-	
Rookwood Bridge Modifications	LUMP		-		-		-		-		-	
Delta Ave Bridge Modifications	LUMP		-		-		-		-		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-		-		-		-		-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		-		-		-		-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		-		-		-		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-		-		-		-	
Torrence Station Alternate 4 Boardwalk	SF	\$200.00	-		-		-		8852	\$1,770,400.00	-	
Torrence Station Alternate 5 Boardwalk	SF	\$200.00	-		-		-		-		11800	\$2,360,000
Walworth Tunnel	LUMP		-		-		-		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-		-		-		-	
Congress Tunnel	LUMP		-		-		-		-		-	
Railroad												
Rookwood Bridge Track Shift	LUMP		-		-		-		-		-	
Delta Ave Bridge Track Shift	LUMP		-		-		-		-		-	
Incidentals												
Contingency	LUMP	30.0%		\$99,470.71		\$14,108.19		\$91,964.58		\$558,168.05		\$714,697.50
Inflation Factor	LUMP	15.3%		\$65,949.08		\$9,353.73		\$60,972.52		\$370,065.42		\$473,844.44
Total			\$496,988.81		\$70,489.24		\$459,485.72		\$2,788,793.63		\$3,570,866.94	

SEGMENT 3

TORRENCE TO HOFF AVE. CONNECTION

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$20,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	771	\$26,995.37
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	2644	\$7,933.33
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	1400	\$42,000.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	881	\$88,148.15
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	147	\$51,419.75
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	184	\$64,274.69
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	441	\$34,818.52
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.27	\$6,628.79
Structures				
Segmental/ Retaining Wall	SF	\$75.00	660	\$49,500.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$117,515.58
Inflation Factor	LUMP	15.3%		\$77,912.83
Total			\$587,147.01	

HOFF AVE. CONNECTION

Item	Unit	Unit Price	ACCESS POINT	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP	\$100,000	-	
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	30	\$2,040.00
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	30	\$240.00
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	43	\$1,497.87
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	130	\$389.33
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	43	\$4,325.93
Concrete Steps	FT	\$496	50	\$24,800.00
Railing	FT	\$150	100	\$15,000.00
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800		
Manhole	EA	\$6,000		
Catch Basin	EA	\$5,000		
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	6	\$1,946.60
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	6	\$2,000.62
Unreinforced Concrete Base	CY	\$215	20	\$4,252.22
Aggregate Base	CY	\$79	22	\$1,708.74
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-	
Structures				
Segmental/ Retaining Wall	SF	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$17,460.39
Inflation Factor	LUMP	15.3%		\$11,576.24
Total			\$87,237.95	

HOFF AVE. CONNECTION TO ST. ANDREWS ST.

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$5,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	551	\$19,282.41
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	1889	\$5,666.67
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	1000	\$30,000.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	630	\$62,962.96
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800		
Manhole	EA	\$6,000		
Catch Basin	EA	\$5,000		
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	105	\$36,728.40
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	131	\$45,910.49
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	315	\$24,870.37
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.19	\$4,734.85
Structures				
Segmental/ Retaining Wall	SF	\$75.00	2400	\$180,000.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$124,546.84
Inflation Factor	LUMP	15.3%		\$82,574.56
Total			\$622,277.55	

ST. ANDREWS ST.

Item	Unit	Unit Price	ALTERNATE H1 (SWITCHBACK PATH)		ALTERNATE H2 (IMPROVED STAIRWAY)	
			QTY	COST	QTY	COST
Roadway						
Clearing and Grubbing	LUMP			\$2,000.00	-	
Pavement Removed	SY	\$17	-		-	
Walk Removed	SF	\$4	-		-	
Steps Removed	FT	\$68	-		-	
Curb Removed	FT	\$11	-		-	
Handrail Removed	FT	\$8	-		-	
Retaining Wall Removed	SF	\$25	-		-	
Removal Misc.: Fence and Bollards	FT	\$5	-		-	
Guardrail Removed	FT	\$3	-		-	
Excavation	CY	\$35	40	\$1,384.44	42	\$1,457.04
Embankment	CY	\$30	-		-	
Subgrade Compaction	SY	\$3	346	\$1,037.33	126	\$377.33
Seeding and Mulching	SY	\$5	-		-	
Topsoil, T=4"	CY	\$6	-		-	
Fence, Misc.: 8' Chain Link	FT	\$30	-		-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-	
Curb Ramp	SF	\$23	25	\$575.00	-	
Curb, Type 6	FT	\$42	20	\$840.00	-	
Guardrail, Type MGS	FT	\$22	-		-	
Subgrade Remediation	CY	\$100	40	\$3,955.56	42	\$4,192.59
Concrete Steps	FT	\$496	-		50	\$24,800.00
Railing	FT	\$150	480	\$72,000.00	100	\$15,000.00
Drainage & Erosion Control						
Catch Basin Adjusted To Grade	EA	\$1,115	-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		-	
Catch Basin/ Manhole Removed	EA	\$800	-		-	
Manhole	EA	\$6,000	-		-	
Catch Basin	EA	\$5,000	-		-	
Conduit <24"	LUMP		-		-	
BMP Vegetated Filter Strip	SY	\$5	-		-	
Pavement						
Asphalt Concrete Surface Course, Type 1	CY	\$350	18	\$6,146.60	5	\$1,868.83
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	21	\$7,250.62	5	\$1,903.40
Unreinforced Concrete Base	CY	\$215	20	\$4,252.22	20	\$4,252.22
Aggregate Base	CY	\$79	58	\$4,552.74	21	\$1,656.07
Traffic Control						
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-		-	
Structures						
Segmental/ Retaining Wall	SF	\$75.00	1770	\$132,750.00	330	\$24,750.00
Rookwood Bridge Modifications	LUMP		-		-	
Delta Ave Bridge Modifications	LUMP		-		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-		-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-		-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-		-	
Walworth Tunnel	LUMP		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-	
Congress Tunnel	LUMP		-		-	
Railroad						
Rookwood Bridge Track Shift	LUMP		-		-	
Delta Ave Bridge Track Shift	LUMP		-		-	
Incidentals						
Contingency	LUMP	30.0%		\$71,023.36		\$24,077.24
Inflation Factor	LUMP	15.3%		\$47,088.48		\$15,963.21
Total			\$354,856.36		\$120,297.94	

ST. ANDREWS ST. TO WALWORTH TUNNEL

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$20,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	1745	\$61,067.38
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	5982	\$17,946.33
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	3167	\$95,010.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	1994	\$199,403.70
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	2	\$2,100.00
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	332	\$116,318.83
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	415	\$145,398.53
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	997	\$78,764.46
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.60	\$14,995.27
Structures				
Segmental/ Retaining Wall	SF	\$75.00	1500	\$112,500.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$259,051.35
Inflation Factor	LUMP	15.3%		\$171,751.05
Total			\$1,294,306.91	

WALWORTH TUNNEL

Item	Unit	Unit Price	ACCESS POINT	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP	\$100,000	-	
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	75	\$375.00
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	56	\$1,952.06
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	191	\$573.67
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	30	\$690.00
Curb, Type 6	FT	\$42	6	\$252.00
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	64	\$6,374.07
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	45	\$6,750.00
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	11	\$3,718.21
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	13	\$4,647.76
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	32	\$2,517.76
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-	
Structures				
Segmental/ Retaining Wall	SF	\$75.00	126	\$9,450.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP			\$20,000.00
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$17,190.16
Inflation Factor	LUMP	15.3%		\$11,397.08
Total			\$85,887.77	

WALWORTH TUNNEL TO DELTA AVE. BRIDGE

Item	Unit	Unit Price	ALTERNATIVE J1 (CONSTRAINED)		ALTERNATIVE J2 (12FT TRAIL)		ALTERNATIVE J3 (12FT TRAIL) W/ TRACK REALIGNMENT	
			QTY	COST	QTY	COST	QTY	COST
Roadway								
Clearing and Grubbing	LUMP			\$10,000.00		\$10,000.00		\$10,000.00
Pavement Removed	SY	\$17	-		-		-	
Walk Removed	SF	\$4	-		-		-	
Steps Removed	FT	\$68	-		-		-	
Curb Removed	FT	\$11	-		-		-	
Handrail Removed	FT	\$8	-		-		-	
Retaining Wall Removed	SF	\$25	-		4200	\$105,000.00	-	
Removal Misc.: Fence and Bollards	FT	\$5	-		-		-	
Guardrail Removed	FT	\$3	-		-		-	
Excavation	CY	\$35	228	\$7,962.50	298	\$10,412.50	298	\$10,412.50
Embankment	CY	\$30	-		-		-	
Subgrade Compaction	SY	\$3	939	\$2,816.67	1228	\$3,683.33	1228	\$3,683.33
Seeding and Mulching	SY	\$5	-		-		-	
Topsoil, T=4"	CY	\$6	-		-		-	
Fence, Misc.: 8' Chain Link	FT	\$30	1300	\$39,000.00	1300	\$39,000.00	1300	\$39,000.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-		-	
Curb Ramp	SF	\$23	-		-		-	
Curb, Type 6	FT	\$42	-		-		-	
Guardrail, Type MGS	FT	\$22	-		-		-	
Subgrade Remediation	CY	\$100	313	\$31,296.30	340	\$34,000.00	409	\$40,925.93
Concrete Steps	FT	\$496	-		-		-	
Railing	FT	\$150	-		-		-	
Drainage & Erosion Control								
Catch Basin Adjusted To Grade	EA	\$1,115	-		-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		-		-	
Catch Basin/ Manhole Removed	EA	\$800	-		-		-	
Manhole	EA	\$6,000	-		-		-	
Catch Basin	EA	\$5,000	-		-		-	
Conduit <24"	LUMP		-		-		-	
BMP Vegetated Filter Strip	SY	\$5	-		-		-	
Pavement								
Asphalt Concrete Surface Course, Type 1	CY	\$350	52	\$18,256.17	68	\$23,873.46	68	\$23,873.46
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	65	\$22,820.22	85	\$29,841.82	85	\$29,841.82
Unreinforced Concrete Base	CY	\$215	-		-		-	
Aggregate Base	CY	\$79	156	\$12,362.04	205	\$16,165.74	205	\$16,165.74
Traffic Control								
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.12	\$3,077.65	0.12	\$3,077.65	0.12	\$3,077.65
Structures								
Segmental/ Retaining Wall	SF	\$75.00	-		-		-	
Rookwood Bridge Modifications	LUMP		-		-		-	
Delta Ave Bridge Modifications	LUMP			\$50,000.00		\$450,000.00	-	\$50,000.00
Rookwood Retaining Wall Relocation	SF	\$120.00	-		-		-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		4200	\$504,000.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		-		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-		-		-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-		-		-	
Walworth Tunnel	LUMP		-		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-		-	
Congress Tunnel	LUMP		-		-		-	
Railroad								
Rookwood Bridge Track Shift	LUMP		-		-		-	
Delta Ave Bridge Track Shift	LUMP		-		-			\$70,000.00
Incidentals								
Contingency	LUMP	30.0%		\$44,277.46		\$233,716.35		\$74,094.13
Inflation Factor	LUMP	15.3%		\$37,005.96		\$223,803.94		\$56,774.41
Total			\$278,874.96		\$1,686,574.80		\$427,848.97	

DELTA AVE. PEDESTRAIN ACCESS POINT

Item	Unit	Unit Price	ACCESS POINT	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP		-	\$2,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	60	\$1,500.00
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	73	\$2,571.37
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	252	\$755.67
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	84	\$8,396.30
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	702	\$105,300.00
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	14	\$4,897.84
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	17	\$6,122.30
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	42	\$3,316.54
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-	
Structures				
Segmental/ Retaining Wall	SF	\$75.00	501	\$37,575.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$51,730.50
Inflation Factor	LUMP	15.3%		\$34,297.32
Total			\$258,462.83	

DELTA AVE. ACCESS POINT TO STANLEY AVE. ACCESS POINT

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$20,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	441	\$15,425.93
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	1511	\$4,533.33
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	800	\$24,000.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	504	\$50,370.37
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	84	\$29,382.72
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	105	\$36,728.40
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	252	\$19,896.30
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.15	\$3,787.88
Structures				
Segmental/ Retaining Wall	SF	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$61,237.47
Inflation Factor	LUMP	15.3%		\$40,600.45
Total			\$305,962.84	

STANLEY AVE. ACCESS POINT

Item	Unit	Unit Price	ACCESS POINT	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP	\$100,000	-	
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	36	\$900.00
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	168	\$5,878.87
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	576	\$1,727.67
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	192	\$19,196.30
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	349	\$52,350.00
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	32	\$11,197.84
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	40	\$13,997.30
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	96	\$7,582.54
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-	
Structures				
Segmental/ Retaining Wall	SF	\$75.00	951	\$71,325.00
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$55,246.65
Inflation Factor	LUMP	15.3%		\$36,628.53
Total			\$276,030.69	

STANLEY AVE. BRIDGE

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP	\$100,000	-	
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	-	
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	178	\$533.33
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	100	\$3,000.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	59	\$5,925.93
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	10	\$3,456.79
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	12	\$4,320.99
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	30	\$2,340.74
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.02	\$473.48
Structures				
Segmental/ Retaining Wall	SF	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	\$50,000.00
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$6,015.38
Inflation Factor	LUMP	15.3%		\$11,638.20
Total			\$87,704.84	

STANLEY AVE. BRIDGE TO CONGRESS TUNNEL/TUSCULUM AVE. ACCESS POINT

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$5,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	331	\$11,569.44
Embankment	CY	\$30	337	\$10,110.00
Subgrade Compaction	SY	\$3	1133	\$3,400.00
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	600	\$18,000.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	378	\$37,777.78
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	63	\$22,037.04
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	79	\$27,546.30
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	189	\$14,922.22
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.11	\$2,840.91
Structures				
Segmental/ Retaining Wall	SF	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	\$20,000.00
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$51,961.11
Inflation Factor	LUMP	15.3%		\$34,450.21
Total			\$259,615.01	

TUSCULUM AVE. ACCESS POINT				
Item	Unit	Unit Price	ACCESS POINT	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP		-	\$1,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	60	\$1,500.00
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	11	\$396.99
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	39	\$116.67
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	13	\$1,296.30
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	2	\$756.17
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	3	\$945.22
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	6	\$512.04
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-	
Structures				
Segmental/ Retaining Wall	SF	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$1,957.01
Inflation Factor	LUMP	15.3%		\$1,297.50
Total			\$9,777.89	

TUSCULUM AVE. ACCESS POINT TO DONHAM ST. ACCESS POINT

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP			\$5,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	303	\$10,605.32
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	1039	\$3,116.67
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	550	\$16,500.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	346	\$34,629.63
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	58	\$20,200.62
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	72	\$25,250.77
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	173	\$13,678.70
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.10	\$2,604.17
Structures				
Segmental/ Retaining Wall	SF	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$39,475.76
Inflation Factor	LUMP	15.3%		\$26,172.43
Total			\$197,234.07	

DONHAM ST. ACCESS POINT				
Item	Unit	Unit Price	ACCESS POINT	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP		-	\$1,000.00
Pavement Removed	SY	\$17	-	
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	35	\$1,212.52
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	119	\$356.33
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	-	
Curb, Type 6	FT	\$42	-	
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	40	\$3,959.26
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	7	\$2,309.57
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	8	\$2,886.96
Unreinforced Concrete Base	CY	\$215	-	
Aggregate Base	CY	\$79	20	\$1,563.91
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-	
Structures				
Segmental/ Retaining Wall	SF	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$3,986.57
Inflation Factor	LUMP	15.3%		\$2,643.09
Total			\$19,918.21	

DONHAM ST. ACCESS POINT TO CARREL ST.

Item	Unit	Unit Price	12FT TRAIL	
			QTY	COST
Roadway				
Clearing and Grubbing	LUMP		1	\$10,000.00
Pavement Removed	SY	\$17	360	\$6,123.78
Walk Removed	SF	\$4	-	
Steps Removed	FT	\$68	-	
Curb Removed	FT	\$11	-	
Handrail Removed	FT	\$8	-	
Retaining Wall Removed	SF	\$25	-	
Removal Misc.: Fence and Bollards	FT	\$5	-	
Guardrail Removed	FT	\$3	-	
Excavation	CY	\$35	827	\$28,962.18
Embankment	CY	\$30	-	
Subgrade Compaction	SY	\$3	2837	\$8,511.33
Seeding and Mulching	SY	\$5	-	
Topsoil, T=4"	CY	\$6	-	
Fence, Misc.: 8' Chain Link	FT	\$30	1502	\$45,060.00
Fence, Misc.: Wood Bike Railing	FT	\$85	-	
Curb Ramp	SF	\$23	340	\$7,820.00
Curb, Type 6	FT	\$42	20	\$840.00
Guardrail, Type MGS	FT	\$22	-	
Subgrade Remediation	CY	\$100	946	\$94,570.37
Concrete Steps	FT	\$496	-	
Railing	FT	\$150	-	
Drainage & Erosion Control				
Catch Basin Adjusted To Grade	EA	\$1,115	-	
Manhole Adjusted To Grade	EA	\$1,050	-	
Catch Basin/ Manhole Removed	EA	\$800	-	
Manhole	EA	\$6,000	-	
Catch Basin	EA	\$5,000	-	
Conduit <24"	LUMP		-	
BMP Vegetated Filter Strip	SY	\$5	-	
Pavement				
Asphalt Concrete Surface Course, Type 1	CY	\$350	173	\$60,419.29
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	212	\$74,210.80
Unreinforced Concrete Base	CY	\$215	60	\$12,907.96
Aggregate Base	CY	\$79	533	\$42,098.22
Traffic Control				
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	0.28	\$7,111.74
Structures				
Segmental/ Retaining Wall	SF	\$75.00	-	
Rookwood Bridge Modifications	LUMP		-	
Delta Ave Bridge Modifications	LUMP		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-	
Walworth Tunnel	LUMP		-	
Stanley Ave Bridge Modifications	LUMP		-	
Congress Tunnel	LUMP		-	
Railroad				
Rookwood Bridge Track Shift	LUMP		-	
Delta Ave Bridge Track Shift	LUMP		-	
Incidentals				
Contingency	LUMP	30.0%		\$119,590.70
Inflation Factor	LUMP	15.3%		\$79,288.64
Total			\$597,515.02	

CARREL ST						
Item	Unit	Unit Price	ALTERNATE K1 (SIDE PATH)		ALTERNATE K2 (SWITCHBACK PATH)	
			QTY	COST	QTY	COST
Roadway						
Clearing and Grubbing	LUMP		-		-	\$1,000.00
Pavement Removed	SY	\$17	-		-	
Walk Removed	SF	\$4	-		-	
Steps Removed	FT	\$68	-		-	
Curb Removed	FT	\$11	-		32	
Handrail Removed	FT	\$8	-		-	
Retaining Wall Removed	SF	\$25	-		-	
Removal Misc.: Fence and Bollards	FT	\$5	-		-	
Guardrail Removed	FT	\$3	-		-	
Excavation	CY	\$35	46	\$1,610.65	77	\$2,680.25
Embankment	CY	\$30	-		-	
Subgrade Compaction	SY	\$3	158	\$473.33	263	\$787.67
Seeding and Mulching	SY	\$5	-		-	
Topsoil, T=4"	CY	\$6	-		-	
Fence, Misc.: 8' Chain Link	FT	\$30	-		-	
Fence, Misc.: Wood Bike Railing	FT	\$85	-		-	
Curb Ramp	SF	\$23	352	\$8,096.00	352	\$8,096.00
Curb, Type 6	FT	\$42	90	\$3,780.00	504	\$21,168.00
Guardrail, Type MGS	FT	\$22	-		-	
Subgrade Remediation	CY	\$100	53	\$5,259.26	88	\$8,751.85
Concrete Steps	FT	\$496	-		-	
Railing	FT	\$150	-		228	\$34,200.00
Drainage & Erosion Control						
Catch Basin Adjusted To Grade	EA	\$1,115	-		-	
Manhole Adjusted To Grade	EA	\$1,050	-		-	
Catch Basin/ Manhole Removed	EA	\$800	-		-	
Manhole	EA	\$6,000	-		-	
Catch Basin	EA	\$5,000	-		-	
Conduit <24"	LUMP		-		-	
BMP Vegetated Filter Strip	SY	\$5	-		-	
Pavement						
Asphalt Concrete Surface Course, Type 1	CY	\$350	9	\$3,067.90	15	\$5,105.25
Asphalt Concrete Intermediate Course, Type 2	CY	\$350	11	\$3,834.88	18	\$6,381.56
Unreinforced Concrete Base	CY	\$215	-		-	
Aggregate Base	CY	\$79	26	\$2,077.41	44	\$3,456.98
Traffic Control						
Pavement Markings/ Signs Ground Mounted	Mile	\$ 25,000	-		-	
Structures						
Segmental/ Retaining Wall	SF	\$75.00	-		684	\$51,300.00
Rookwood Bridge Modifications	LUMP		-		-	
Delta Ave Bridge Modifications	LUMP		-		-	
Rookwood Retaining Wall Relocation	SF	\$120.00	-		-	
Delta Ave Retaining Wall Relocation	SF	\$120.00	-		-	
Lancaster Tunnel and Stairwell Abandonment	LUMP		-		-	
Lancaster Tunnel and Stairwell Replacement	LUMP		-		-	
Torrence Station G4 Elevated Boardwalk	SF	\$200.00	-		-	
Torrence Station G5 Elevated Boardwalk	SF	\$200.00	-		-	
Walworth Tunnel	LUMP		-		-	
Stanley Ave Bridge Modifications	LUMP		-		-	
Congress Tunnel	LUMP		-		-	
Railroad					-	
Rookwood Bridge Track Shift	LUMP		-		-	
Delta Ave Bridge Track Shift	LUMP		-		-	
Incidentals						
Contingency	LUMP	30.0%		\$8,459.83		\$42,878.27
Inflation Factor	LUMP	15.3%		\$5,608.87		\$28,428.29
Total			\$42,268.12		\$214,234.12	

CY 2026-2030 Business Plan Inflation Calculator:

[Not sure if you have the latest calculator? Click here.](#)

Last Modified: 1/30/2026

Today's Date:

May 14, 2026

Please Enter Values in the Yellow Areas Only:

Estimation Start Date:

Less than or Equal to Today's Date
(mm/dd/yyyy)

4/14/2026

Start Date:

Enter Construction Mid-Point Date:

(cannot exceed 05/14/2051)
(mm/dd/yyyy)

5/1/2030

Construction Mid-Point Date:

Present-Day Estimated Cost:

\$14,000,000.00

Estimated Dollar Amount:

Estimate Start Date to Construction Mid-Point Date:

49

Months

Inflation - Start to Mid-Point of Construction:

(compounded growth rate)

Inflated Dollar Amount:

Business Plan

15.3%

\$16,141,447.43

Estimator's Name:

County - Route - Section:

PID:

Estimator's Notes: