2025 RETAINING WALL AND LANDSLIDE REPORT

Department of Transportation and Engineering
Division of Engineering
Structures and Geotechnical Section

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Note: This report includes the summaries of the walls inspected in the 2025 calendar year. Due to ongoing updates to the wall inventory system, not all wall quantities, information and ratings may be accurate at the time of publication.

INTRODUCTION

Retaining walls are an essential part of Cincinnati's transportation network, protecting roadways, sidewalks and stairways from landslides and hillside slippage. Timely maintenance is important for the safety and welfare of the traveling public. The Department of Transportation and Engineering (DOTE) is the city agency responsible for inspecting, maintaining, and improving the transportation system within the City of Cincinnati. The Wall Stabilization & Landslide Correction Program is the specific program within DOTE charged with the responsibility of maintaining the retaining walls within this transportation system and stabilizing landslides within the public right-of-way.

RETAINING WALL DATABASE AND INSPECTION

The Retaining Wall Database (RWD), formerly known as WITS (Wall Inventory Tracking System) was created in 1991. The RWD was upgraded to a geodata system in 2015 and is now directly accessed through ArcGIS. A web supported viewing and reporting system of the retaining walls contained in the RWD is also included in DOTE's Asset Management Portal. Maintenance and updating of the database is highly dependent on assistance from personnel from Enterprise Technology Solutions (ETS).

Retaining walls within or adjacent to the right-of-way have been inventoried and are included in the Retaining Wall Database (RWD). There are a total of 7,302 retaining walls having a length of approximately 173 miles included in the RWD. DOTE is responsible for maintaining 1,603 walls having a total length of 53 miles. These counts and lengths of walls do not include walls constructed by DOTE after 2023, as we continue to update and make improvements to the RWD.

Wall Owner/Maintenance Responsibility	Wall Count	Total Length (Lin. Ft.)	Total Length (Miles)
Dept. of Transportation and Engineering	1,603	279,238	52.89
Other Departments	224	43,562	8.25
Maintenance Agreements	97	9,494	1.80
Unknown	40	7,638	1.45
Hamilton County	14	5,107	0.97
ODOT	185	53,649	10.16
Private	5,139	514,668	97.48
TOTALS:	**7,302**	**913,356**	**172.98**

DOTE personnel inspect DOTE walls and walls owned and maintained by other city departments. The city is divided into six inspection districts (see Inspection District Map in Section 5 of this report). Each district is inspected once every six years. In addition, all walls that are rated in poor or critical condition are inspected yearly regardless of the district in which they are located. Other inspections are performed if a wall is damaged in an automobile accident or if a complaint is received.

The objectives of the inspections are to:

1. Locate and determine the extent of any weakness or damage so that appropriate corrective actions can be taken to ensure public safety.

2. Provide a current information database on the condition of City-owned retaining walls within Cincinnati so that maintenance, repair, and replacement projects can be scheduled efficiently.

The goal of the Wall Stabilization and Landslide Correction Program with respect to retaining walls is to preserve the structural integrity of all walls maintained by DOTE. DOTE established the following performance measures to track progress toward accomplishing this objective.

1. DOTE personnel will annually inspect all City-owned retaining walls in one inspection district and all walls with a condition rating of between 3 and 4 (Poor) or greater than 4 (Critical). DOTE personnel will also inspect new, replaced, repaired, and damaged walls. They will maintain an inventory of all walls that are in or near public streets within the City of Cincinnati and annually submit a report summarizing the condition of City-owned walls.

   DOTE personnel inspected a total of 290 walls having a total length of 9.78 miles in the 2025 inspection cycle. These walls were in the communities of:

   42 – Lower Price Hill
   43 – East Price Hill
   44 – West Price Hill
   46 – Sedamsville
   47 – Riverside
   48 – Sayler Park

   The number in front of the neighborhood name references the neighborhood number listed on the Inspection Cycle Map in Section 5 of this report. Wall inspections are typically done in the first quarter of the year.

   Section 4 of the report summarizes the results of the inspections completed in 2025.

2. Within the limits of available funding, retaining wall personnel will develop and manage a wall maintenance, repair, and replacement work program to maintain a Structural Condition Rating of 3 or less (Satisfactory to Excellent) for 80% or more of the walls maintained by DOTE.

   At the present time, more than 94 percent of the walls by count and more than 93 percent of the 53 miles of walls maintained by DOTE have structural condition ratings less than 3, placing them in the category of "satisfactory" or better.

RETAINING WALL CONDITION SUMMARY

Tables and graphs summarizing the condition of DOTE maintained walls and other city-maintained walls are shown in Section 2 of this report. The rating of each wall is based on the structural condition rating which ranges from Excellent (0) to Critical (4). The structural condition ratings are defined in Section 2 of this report. Eighty-four (84) of the 1,603 walls (5%) maintained by DOTE have a Structural Rating of Poor (3-4). Seven (7)

of the DOTE-maintained walls (0.4%) have a Structural Rating of Critical (4 or higher). Tables of all DOTE walls and walls maintained by others with a Poor, or Critical condition rating are also listed in Section 2.

A list of the priority and the estimated costs to replace or repair DOTE maintained walls, bringing them to a condition of "satisfactory" or better, is shown on the Wall Repair Priority and Estimated Cost List in Section 3 of this report. The list identifies whether the cost to replace/repair is a capital or maintenance expense. The estimated costs are conceptual and are primarily based on the inspection reports and photographs. The costs are only intended to establish basic funding needs and are not considered to be Engineer's estimates. The priority for replacement/repair is based on the walls' impact on public safety, performance, the usage of the area it supports, likelihood of further deterioration if not repaired, and degree of consequences if left unrepaired.

A summary of the Wall Repair Priority & Estimated Cost Table is given below.
Note: Due to upgrades being made to the Retaining Wall Database system and ongoing reorganizing of repair priorities and efforts, this table and the data tables in Section 3 of this report have not been updated for the current year. The data presented is the same as the data from the 2024 report.

WALL REPAIR PRIORITY AND ESTIMATED FUNDING SUMMARY

Capital Cost	
High Priority (5 walls)	$460,000
Medium Priority (19 walls)	$1,132,600
Low Priority (33 walls)	$2,960,880
TOTAL (57 walls)	$4,553,480

Maintenance Costs	
High Priority (42 walls)	$121,800
Medium Priority (91 walls)	$323,000
Low Priority (99 walls)	$178,920
TOTAL (232 walls)	$623,720

The total estimated maintenance and capital construction cost to replace/repair the walls to bring all walls to a condition of Satisfactory or better is $5,177,200. This estimated cost does not account for costs associated with design, construction management, real estate, or inflation. Not included in the High Priority Capital Cost portion of the summary are retaining walls that are in the 6-year plan: Sycamore Street Retaining Wall, Riverside Drive Retaining Wall at Friendship Park and Eleanore Place at Gage Stairway. The total construction cost of these three wall projects is estimated at $2.4 million, which is partially funded by the federal PROTECT grant.

FUNDING

In 1987, the Smale Commission, which studied Cincinnati's infrastructure, put an emphasis on the need to stabilize a backlog of landslides and the need for the repair and replacement of retaining walls throughout the city. Annual Capital funding for the Wall Stabilization and Landslide Correction Program which began in 1989 has substantially

declined over the years from a high point of $1.84 million in 1995 to a low of $550,000 in Fiscal Year (FY) 2016. FY2026-FY2030 planned capital resource allocation averages nearly $900,000 annually.

Maintenance Funds specifically for the maintenance of retaining walls were at an annual level of $500,000 between 1989 and 1992 and $200,000 between 1993 and 1995. Neither DOTE nor Public Services received maintenance funds between 1996 and 2020.

Operating Funds in an amount on the order of $200,000 annually were added to the budget in 2021 for the maintenance of retaining walls. These funds are managed by the Wall Stabilization and Landslide Correction Program for minor to moderate repairs.

Major repairs or complete reconstruction of retaining walls are funded from the same Capital funds used for landslide stabilization projects. Most of the salaries of DOTE personnel within the program are funded directly from the program. Construction management and inspection services are also funded from the program.

As of October 3, 2025, the available balance in the Wall Stabilization and Landslide Correction Program is $1,547,726.06, which includes the $790,000 allocation for Fiscal Year 2026.

The Wall Stabilization & Landslide Correction Six-Year Plan included in Section 3 of the report demonstrates that the current level of funding is not sufficient to adequately address the maintenance and replacement of existing retaining walls and the stabilization of landslides which impact the roads. The total of existing funds and projected funding over the next five-year period for fiscal years 2025 to 2029 is $6,309,726. Expenses in the six-year plan total $20.3 million with most of the budget being used for the stabilization of landslides. As previously shown, the estimated conceptual construction cost to repair or replace structurally deficient retaining walls alone is on the order of $5.2 million and this work is not included in the 6-year plan.

Outside Funding (Grants)

The Wall Stabilization and Landslide Correction Program is highly dependent on securing outside funding. Completing the projects proposed in the six-year program plan will rely on obtaining nearly $14 million in outside funding from various sources, including annually administered SORTA Metro Transit Infrastructure (MTIF) grants and Ohio Public Works Commission (OPWC) State Capital Improvement Program (SCIP) grants.

An OPWC grant from the round of awards in 2023 will be used to cover a large portion a proposed landslide repair project to along Columbia Parkway, south of the Beechmont Avenue intersection.

A table showing the currently awarded grants is included below.

In 2024, the City was awarded a federal PROTECT grant through the USDOT and Federal Highway Administration (funded by the Bi-partisan Infrastructure Law) to assist in funding for 10 locations (8 projects).

Two of the applications that DOTE submitted in September 2025 would help fund the local match to the PROTECT grant for a wall repair on Riverside Drive and a landslide repair on River Road.

The six-year plan is dynamic and will be revised pending the availability of outside funding or if circumstances, such as prolonged rainfall, cause a change in priorities.

Retaining wall and landslide locations will continually be inspected and evaluated. The program will prioritize allocated funding to address the most critical locations given the constraints of the budget.

Grant Name*	Grant Application Year	Project	Grant Value	Approx. % of Project Cost	Anticipated Required Local (DOTE) Match
SCIP	2023 (Round 38)	Columbia Parkway, South of Beechmont	$1,166,000	80	$291,500
PROTECT	2023	Hillside Avenue Landslides	$3,024,732	80	$756,183
PROTECT	2023	Faraday Road Landslide	$1,433,922	80	$358,481
PROTECT	2023	Riverside Drive Retaining Wall at Friendship Park	$1,762,023	80	$440,506
PROTECT	2023	River Road Landslide, East of Southside	$1,568,495	80	$392,124
PROTECT	2023	Sycamore Street Retaining Wall	$292,948	80	$73,237
PROTECT	2023	Eleanore Place, Retaining Wall and Coy Street Landslide	$1,321,390	80	$330,348
PROTECT	2023	Columbia Parkway, South of Beechmont and Riverside Drive at Rookwood Overpass	$676,314	80	$525,387
		SUM	**$11,245,824**		**$3,167,766**

* MTIF - Metro Transit Infrastructure Fund

SCIP - State Capital Improvement Program, administered by Ohio Public Works Commission

PROTECT - Promoting Resilient Operations for Transformative, Efficient, and Cost-saving Transportation Program, USDOT, Federal Highway Administration

PROJECTS COMPLETED – SEPTEMBER 2024 THRU SEPTEMBER 2025

Nine (9) retaining wall or landslide stabilization projects were completed between September 2024 and September 2025. Additionally, tree maintenance was contracted in 8 neighborhoods. These projects are summarized below.

Anderson Ferry Retaining Wall

Neighborhood: Riverside
Final Construction Cost: $857,912
Design, Overhead and Construction Management Costs: $243,338

Hillside movement had caused the retaining wall along the west side of Anderson Ferry Road, between Hillside Avenue and River Road to flex and the wall was being overtopped by soil. The sidewalk had buckled and was closed in February of 2020. The project has stabilized the slope with a tied-back soldier pile retaining wall constructed behind the existing wall. The wall was also extended 45 feet south from the existing wall to allow for the walk to be extended, closing a long-standing gap. The new walls allow stormwater infrastructure to properly collect water behind the wall to allow the sidewalk to be repaired and extended to River Road.

This project was requested by the Riverside Community and was funded by a combination of a Community Budget Request capital funding allocation ($300,000), a Metro Transit Infrastructure Fund grant (MTIF, $587,942) and Stormwater Management Utility (SMU, $48,411). The Wall Stabilization and Landslide Correction Program funded the investigation, in-house design, real estate acquisition and construction management/testing.

Anderson Ferry Road, Before

Anderson Ferry, Completed

Art Museum Drive
Neighborhood: Mt. Adams (Eden Park)
Final Construction Cost: $1,379,728
Design, Overhead and Construction Management Costs: $182,391

Hillside movement impacted Art Museum Drive for a distance of approximately 662 feet from its intersection with Eden Park Drive. The retaining wall constructed in the 1930's was founded within the overburden soil and was failing, causing separation of the sidewalk from the curb, deterioration of the sidewalk, separation of the curb from the roadway and tension cracks within the pavement.

The stabilization project involved the installation of a drilled pier retaining wall along the downhill side of the existing retaining wall. Thirty-inch diameter piers were installed at eight (8) feet on center. Precast concrete panels and a wall cap were installed between and on top of the piers. The sidewalk was widened and a new vehicle barrier and pedestrian rail were installed on the wall. The existing cable post guardrail on the south side of Eden Park Drive was also replaced with steel-backed timber rail as part of this project.

DOTE applied for and was granted a Metro Transit Infrastructure Fund grant from SORTA in program year 2022. This project was funded in large part by this MTIF grant ($1,089,072) with Cincinnati Parks ($178,140) and the Wall Stabilization and Landslide Correction Program ($112,516) funding the balance of construction costs. The Wall Stabilization and Landslide Correction Program funded the investigation, in-house design and construction management/testing ($182,391).

Art Museum Drive, Before

Art Museum Drive, Completed

Beekman Street (@ 3090)
Neighborhood: North Fairmount
Approximate Construction Cost: $126,806 (part of a $15,303,105 project)
Investigation and In-House Design Costs: $17,714

A private retaining wall collapse on the property at 3090 Beekman Street caused a landslide that extended up to the roadway, resulting in the destruction of the sidewalk and the realignment of curb. Pavement was being distressed and there was fear of distress to adjacent utilities. The Department of Community and Economic Development (DCED) had taken control of the property.

DOTE designed a soldier pile wall comprised of 12 piers with steel piles and pre-cast concrete lagging panels. DOTE was awarded OPWC SCIP funding for a much larger street improvement/pedestrian safety project that included this wall as it was needed to repair the sidewalk, curb and pavement in this area. The overall project funding sources, in conjunction with the SCIP grant, were able to cover the cost for the wall/landslide repair. The Wall Stabilization and Landslide Correction Program funded the investigation and in-house design ($17,714).

Beekman Street, Before

Beekman Street, Completed (Roadway Work Ongoing)

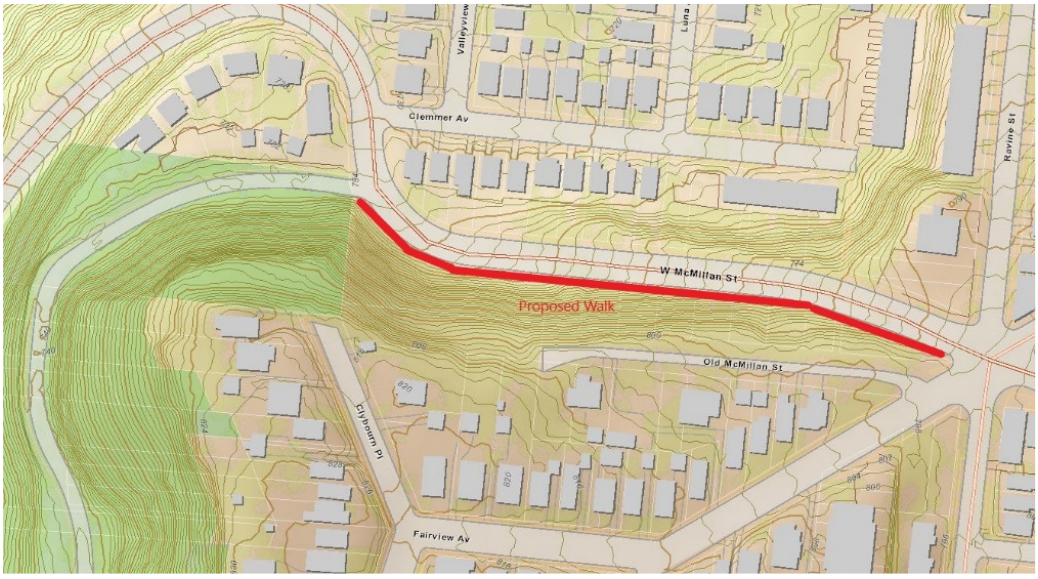
Beekman Street, Before

Beekman Street, Completed

McMillan Street Sidewalk Improvement

Neighborhood: CUF

Approximate Wall Construction Cost: $232,700 (part of a $543,221 project)



McMillan Street Sidewalk Improvement – Vicinity Map

This project was funded as a Capital Improvement Project to extend sidewalk along the south side of McMillan Street from Fairview Park Drive to Ravine Street. Installation of the sidewalk required construction of a retaining wall along approximately 700 of the 850 ft. of new walk. Project design was nearly complete in July of 2022 when significant movement of the landslide below Old McMillan Avenue required an Emergency Design/Build stabilization project. This stabilization delayed the completion of the McMillan Street Sidewalk to this year.

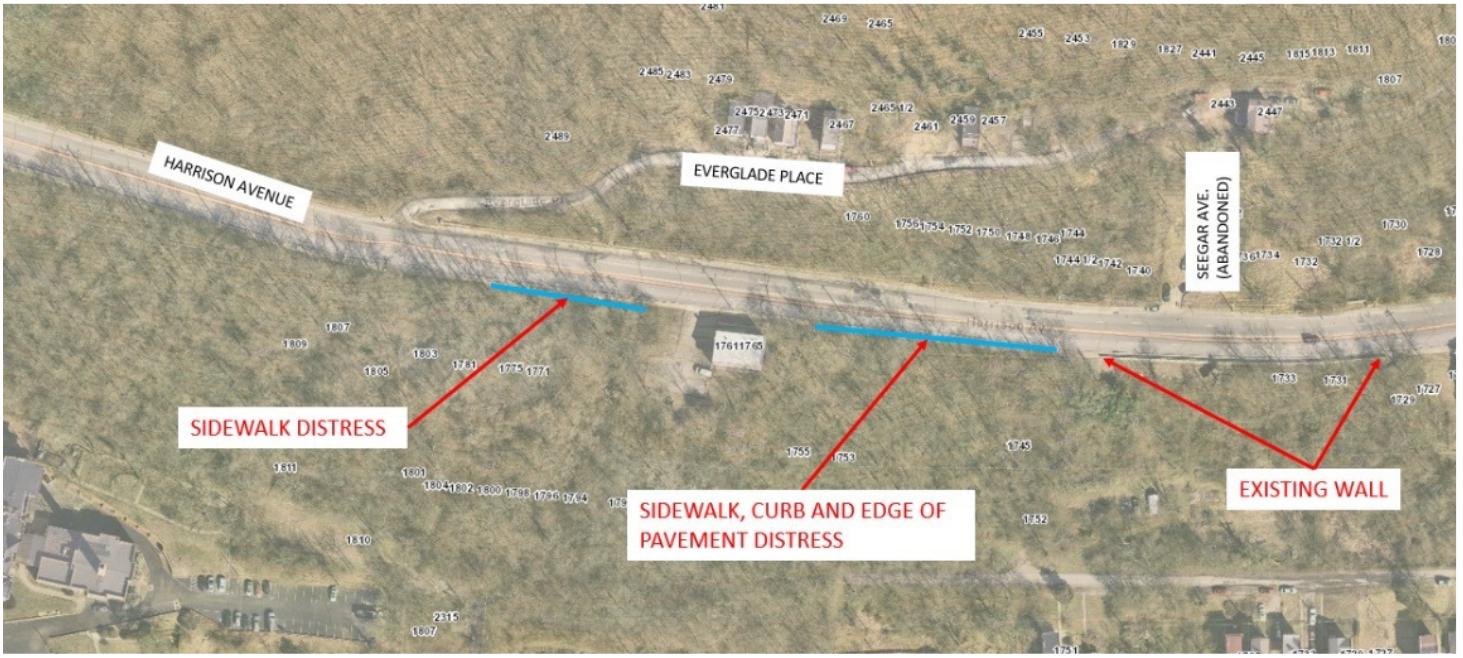
McMillan Sidewalk, Before

McMillan Sidewalk, Completed

Harrison Avenue Landslide Correction (east of Everglade Place)
Neighborhood: South Fairmount
Approximate Construction Cost: $400,864 (part of a $7,600,000 project)

Private properties that were filled for apartment developments in the early to mid-1900's created an instability along the south side of Harrison Avenue, east of Everglade Place. The apartments were razed in the 1960's due to landslide damage. The landslides span east and west from a single remaining apartment complex at 1765 Harrison Avenue. Slope movement has resulted in the destruction of the sidewalk and the realignment of curb. Pavement was being distressed and there was fear of distress to adjacent utilities. A safety improvement project was planned in the area, requiring the sidewalk to be repaired and reopened. Two (2) drilled piers and plug walls 195 feet and 176 feet in length were designed in-house and constructed as part of the safety improvement project. The wall allows for reconstruction of the curb and walk.

The safety project funding sources (City capital budget, MTIF grant and ODOT safety improvement grant) were able to cover the cost for the wall/landslide repair.



Harrison Avenue – Wall Locations (in blue)

Harrison Avenue, Before

Harrison Avenue, Wall Complete, Roadway Work Ongoing

<u>West Fork Road Landslide Correction (opposite 2037 to 2023)</u>
Neighborhood: Westwood/Mt. Airy
Final Construction Cost: $373,056
Investigation, Design, Overhead and Construction Management Costs: $73,571

Slope movement began at the east end of two previous landslide stabilization projects along the north side of West Fork Road. This movement was first noticed in March 2025. DOTE applied for and received a grant for 90 percent of construction costs through the OPWC Emergency Program.

The project involved extending the existing drilled pier walls an additional 275 feet to the east and included some stormwater inlet and outfall reconstruction as well as new guardrail and pavement patching. The project was designed in-house by Wall Stabilization and Landslide Correction Program personnel and bids were secured using emergency purchasing procedures.

Construction began in late June, 2025 and required a full closure of West Fork Road. The project was substantially complete and the roadway was reopened in early August.

The construction was 90% funded with an OPWC Emergency Program grant allocation. The balance of construction costs were covered with Street Improvement capital funds. The Wall Stabilization and Landslide Correction Program funded the investigation, in-house design, and construction management/testing ($73,571).

West Fork Road Landslide Correction, Before

West Fork Road Landslide Correction, Completed

Maryland Avenue Retaining Wall Repair (at Morrow Place)
Neighborhood: East Price Hill
Final Construction Cost: $88,470

A section of modular retaining wall constructed in 2000 settled and translated (slid) downslope. This resulted in sidewalk settlement and loss of curb across from Summit Avenue.

DOTE Contracted for the removal and reconstruction of the eastern 114 feet of the wall, including the additional wall depth, new wall cap, reuse of railing, and replacement of walk and curb.

Maryland Avenue Wall Reconstruction – Before

Maryland Avenue Wall Reconstruction Completed

<u>Eucleden Alley Retaining Wall Reconstruction</u>
Neighborhood: Corryville
Construction Cost: $73,853 (approx. – final invoice forthcoming)
In-House Design, Real Estate and Project Management Costs: $53,541 ($29,490 of which is real estate acquisition payments)

A 20-foot-long section of cantilevered concrete retaining wall from 1929 at the north end of the alley was at risk of collapse. A similar section to the south of this area was replaced with modular retaining wall units in 2007.

DOTE contracted for the removal and reconstruction of the northern 20 feet of this wall. During construction, it was noted that the 2007 repair was constructed with a batter (lean)

that matched the already leaning section being replaced. As a result, the project was expanded to include restacking of the wall blocks placed in 2007 to better align with the new project and future work that will be needed going further south. This future work is in the 6-year program plan.

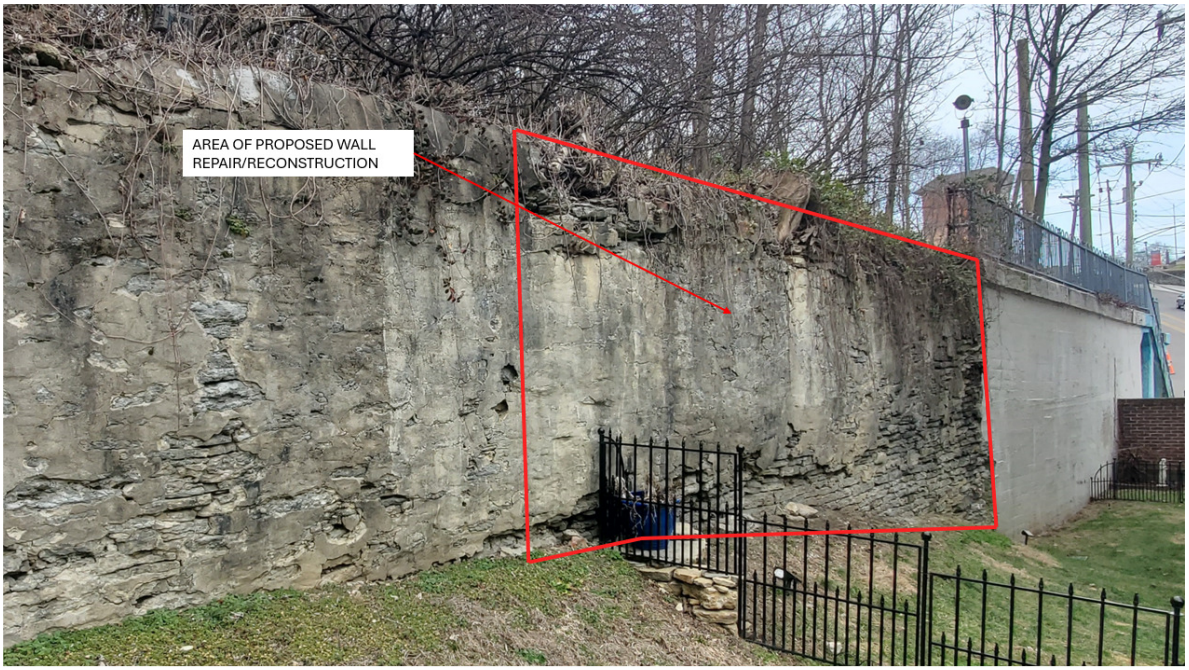
The project coincided with the private property owner replacing portions of the private wall along Charlton Street, as seen in the post-construction photo below.

Eucledan Alley Wall Reconstruction – Before

Eucledan Alley Wall Reconstruction - Completed

Sycamore Street Wall Reconstruction (1809 Sycamore)
Neighborhood: Mt. Auburn
Construction Cost: $108,290 (approx. – final invoice forthcoming)
A 40-foot long section of a stone gravity wall located along the north side-yard of the property at 1809 Sycamore Street and presumed to date from the late 1800's/early 1900's was at risk of collapse. The risk of failure could have impacted the adjacent house.

DOTE contracted for the removal and reconstruction of 40 feet of this wall by restacking a similar gravity, mortared stone wall.



Sycamore Street Wall Reconstruction – Before

Sycamore Street Wall Reconstruction - Completed

Misc. Wall Tree Removal
Various Neighborhoods
Approximate Construction Cost: $15,000

DOTE provided a delivery order under a current Citywide contract for "Emergent and Routine Arboricultural Maintenance" for removal of vegetation that is impacting retaining walls in various locations throughout the City. The Contractor (Tree Care, Inc.) completed work at 12 sites in 8 different neighborhoods.

PROJECTS CURRENTLY UNDER CONSTRUCTION (OR BEGINNING) IN 2025

Yoast Avenue Reconstruction

Neighborhood: North Fairmount
Approximate Wall Construction Cost: $517,570 (part of a $1,372,352 project)

This project involves the raising of a low section of Yoast Avenue to relieve frequent flooding. The project was designed by a consultant managed by Stormwater Management Utility (SMU) in conjunction with MSDGC. A major component of the project is a 330-foot-long prefabricated modular retaining wall (PMRW) that will support the new roadway grade. The wall reaches a maximum height of approximately 11 feet and incorporates a precast vehicle barrier into the wall system.

DOTE reviewed and provided input during the planning and design of the project for roadway items and is managing the construction phase. Personnel in the Wall Stabilization and Landslide Correction Program reviewed the planning and are reviewing the construction stages of the project. DOTE will assume maintenance responsibilities for the new roadway, wall and barrier. The project is funded by various infrastructure funds and programs managed by SMU and MSDGC.

Yoast Avenue Reconstruction – Before

Yoast Avenue Reconstruction – During Construction

Airport Road Improvements
Neighborhood: East End
Approximate Wall Construction Cost: $140,918 (part of a $1,448,280 project)

This project involves street improvements, which center around constructing a sidewalk along the west side of Airport Road. The project requires two (2) retaining walls, the larger of which is a 100-foot long cast-in-place wall along an embankment leading up to a building. The smaller wall will be a prefabricated modular retaining wall (PMRW). Personnel in the Wall Stabilization and Landslide Correction Program designed these walls in-house. The project is beginning construction and is funded by a combination of DOTE capital improvement programs.

Airport Road Improvements – Before

Airport Road Improvements – During Construction

SIGNIFICANT TROD REPAIRS/WORK September 2024- September 2025

DOTE works with the Department of Public Services (DPS), Transportation and Roadway Operations Division (TROD) to accomplish general wall maintenance and the cleanup of debris from landslide activity. This often includes minor concrete and railing repairs due to automobile accidents, vandalism or normal aging.

This year, most of the work coordinated with TROD involved stairs, which are not covered in this report.

One significant wall-related work order was completed via coordination with TROD this year.

Wall Cap Grout Filling

Neighborhoods: Various
Cost: $20,000

This work order involved repairs to wall caps in 28 locations around the city. These repairs focused on a recurring condition where railing posts are installed and the grout surrounding the post settles. This creates a pocket for water and debris to accumulate. The water leads to rust that, if left unchecked, eventually destroys the post and loosens the railing, requiring premature replacement. The following locations/walls were addressed by TROD this year. This was funded by the operating funds managed by the Wall Stabilization and Landslide Correction Program.

Wall #	Street	Length	Area	Type	Comments	Coordinates	Address/Location
250-124	First Ave	90	450	PC	Grout railing post holes to prevent water retention and rust.	39.11689,-84.57886	1279 1st Ave
288-143A	Maryland Ave	282	3300	MS	Grout railing post hole recess's{collects water}	39.10935,-84.56005	Maryland & Chateau
288-143B	Maryland Ave	272	2000	MS	Grout railing post hole recess's{collects water}, trim protruding inclo.	39.10907,-84.55902	Maryland & Chateau
298-034	Kirby Ave.	145	250	PC	Replace missing railing section; grout rail post pockets; patch wall cap/sidewalk	39.16848,-84.54701	475' N of Bruce Ave; W side
298-057	Hamilton Ave.	103	400	PC	Grout rail posts recess to avoid moisture retention.	39.17166,-84.54382	1610 Frederick Ave
300-020	Hillcrest Ave.	132	2150	PC	Grout rail posts recess to avoid moisture retention.	39.19034,-84.54104	1219 Hillcrest Rd
328-028	Probasco St	141	1000	CC	Grout rail post pockets to prevent water from collecting/ rail is wobbly when pu	39.13458,-84.52665	2913 Marshall Ave
329-104	Klotter Ave.	43	300	CC	Grout rail post pockets.	39.12318,-84.53178	620 Klotter Ave
329-109A	Conroy St.	137	1100	G2	Grout railin post pockets to prevent rusting post and wall cracks/cap popouts. P	39.12298,-84.53014	548 Conroy St across st
329-109B	Conroy St.	275	3400	G2	Grout railing post pockets to prevent rusting post and wall cracks/cap popouts.	39.12286,-84.52921	522 Conroy St across st
329-109C	Conroy St.	234	1900	G2	Grout railing post pockets to prevent rusting posts and wall cracks/cap popouts	39.12280,-84.52879	508 Conroy St across st
329-110A	Conroy St.	75	700	G2	Grout railing post pockets to prevent rusting posts and wall cracks/cap popouts	39.12275,-84.53070	608 Conroy St across st
329-110B	Conroy St.	25	300	G2	Grout railing post pockets to prevent rusting posts and wall cracks/cap popouts	39.12271,-84.53048	604 Conroy St across st
329-110C	Conroy St.	44	350	G2	Grout railing post pockets to prevent rusting posts and wall cracks/cap popouts	39.12309,-84.53087	602 Conroy St across st
330-061	Clifton Ave Wes	68	300	G2	Reset fallen/missing stones in top course; grout rail pockets.	39.12042,-84.52013	20656 W Clifton Dr
330-078	Mulberry St.	180	700	PC	Patch cap, resecure and grout railing posts.	39.11756,-84.51510	93 Mulberry St
331-027	Mound St.	102	350	CC	Grout rail post pockets.	39.10727,-84.52356	1077 Mound St
332-002	Third st W.	116	2400	PM	Grout rail post pockets.	39.09744,-84.52020	400' W of Central Ave, S sid
332-008	Third st W.	292	2300	CC	Re secure wobbly hand rail; grout rail post pockets.	39.09725,-84.52463	640 W 3rd St
332-009	Third st W.	254	4500	G2	Grout rail post pockets.	39.09739,-84.52051	230' E of Clay Wade Bailey
335-020	Butler st.	212	800	CC	Grout pocket post pockets to prevent post corrosion.	39.10266,-84.50224	408 Butler St
335-338	Hill St.	92	200	G5	Repair conc and reanchor railing post/ grout rail posts pockets.	39.10595,-84.49670	935 Hill St
375-073	Elmhurst Ave	32	260	G2	Replace missing post cap/ grout rail post pockets	39.13026,-84.46248	7 Elmhurst PL
421-001	Airport Rd	138	1000	OT	Grout railing post pockets.	39.10838,-84.43194	4105 Airport Rd
422-012	Eastern Ave	53	600	G2	Grout railing post pockets.	39.11341,-84.42223	4467 Eastern Ave
423-055	Alpine Ter.	14	45	CC	Fill recessed rail pockets with grout.	39.12832,-84.43108	825 Delta Ave
423-061B	Mt Lookout Squ	280	900	G3	Fill recessed rail pockets with grout.	39.12899,-84.43018	1018 Delta Ave
470-004	Beechmont Ave	177	1300	CC	Remove and repair delam @ rail post over walk; grout rail post pockets.	39.09701,-84.38712	2320 Beechmont

ADDITIONAL PROJECTS AND RESPONSIBILITIES

Engineers in the Wall Stabilization and Landslide Correction Program review Building Permit applications that are routed to them by the Plans Examiners in the Department of Buildings and Inspections (B&I). The Engineers also assist the inspectors in the Building Construction Inspection Section and the Property Maintenance Division. Expert testimony is provided by the Engineers in cases concerning hillside stability.

Development plans for coordinated site reviews having Geotechnical concerns are regularly reviewed by Wall Stabilization and Landslide Correction Program personnel. During the past two years, personnel have had significant involvement including developments known as Tusculum Ridge North and Tusculum Ridge South (eastern Avenue) and Torrence Station (Torrence Road at Riverside Drive).

Wall and Landslide Program personnel respond to Customer Service Requests (CSRs) for wall and landslide issues and respond to numerous requests from the public that are referred directly to them.

Areas that are known to be landslide-prone are reviewed after significant rain events. Slope monitoring equipment known as "inclinometers" are installed at various locations throughout the city. The inclinometers are read by our personnel every four to six months.

In addition to the program specific projects, the Engineers and Technicians in the Wall Stabilization and Landslide Correction Program also design walls and provide consulting services to the other DOTE sections and to other City Departments including Greater Cincinnati Water Works (GCWW), Parks, Buildings and Inspection, Community and Economic Development, Stormwater Management Utility and the Metropolitan Sewer District (MSD). Examples of work underway with other DOTE Sections and City Departments are listed below.

Wasson Way, Phases 7

This final phase (Phase 7) at the west terminus of the Wasson Way trail requires subgrade stabilization and at least three new retaining walls. Wall Stabilization and Landslide Correction Program staff worked with the Design Team from other DOTE sections to coordinate a Geotechnical Exploration for the project, refine the project alignment and design the required retaining walls. This project is scheduled for construction in 2026.

Red Bank Road Shared Use Path

Review of consultant scope of work for investigation and design of retaining walls near the intersection of Red Bank Road and Duck Creek Road. Due to project schedules and budget, Wall Stabilization and Landslide Correction Program staff will be providing the wall design documents for inclusion in the plan package.

Brighton Bridge Replacement

Wall Stabilization and Landslide Correction Program personnel have provided field support for the construction of this bridge, which includes deep foundations, approach walls and rehabilitation of a large gravity wall along the east side of Central Parkway.

Western Hills Viaduct Replacement

Wall Stabilization and Landslide Correction Program personnel assist with review of consultant-led Geotechnical investigation and development of demolition plans for nearby structures having buried tunnels and vaults.

Center Hill Landfill Repurposing

Wall Stabilization and Landslide Correction Program personnel continue to work with the City Manager's office, the Office of Environment and Sustainability and other DOTE personnel to facilitate a feasibility study for repurposing the closed City-owned landfill. This project involves considerable Geotechnical and Environment constraints. This study was completed in August 2024.

Carll Street Retaining Wall Replacement/Stabilization

Neighborhood: North Fairmount
Anticipated Construction Cost: $134,881
In-House Design and Project Management Costs: $5,000 (estimated, $2,010 to date)

Wall Stabilization and Landslide Correction Program personnel have been working with the City Manager's office, the Department of Buildings and Inspections and Cincinnati Recreation Commission to stabilize and replace portions of a retaining wall built in 1929 that runs along the rear of the Carll Street Recreation Area and the North Fairmount Community Center. Portions of the cantilevered concrete wall will be rebuilt with prefabricated modular retaining wall (PMRW) blocks and the excavated soil from the wall construction will be placed as a buttress fill in front of remaining portions of the wall.

Program personnel have completed the design of the wall and have applied for building permits. The construction has been procured through emergency procurement procedures and is expected to begin in the fall of 2025. The project is being funded through various funds managed by the City Manager's Office as well as CRC funding for the portion of the work on their property. The design and project management is being funded by the Wall Stabilization and Landslide Correction Program.

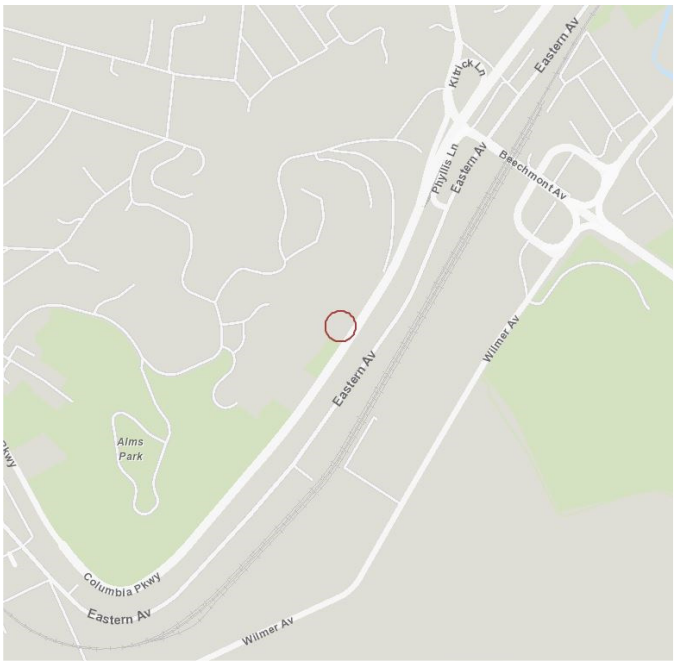
FUTURE PROJECTS

Significant projects that are included in the 6-Year Plan are summarized below.

Columbia Parkway Landslide South of Beechmont Avenue (PROTECT)

Neighborhood: Linwood
Estimated Construction Cost: $1,444,000
Estimated Preconstruction and Construction Management Costs: $200,000
Anticipated Construction Year: 2026

Public Services trimmed the vegetation along Columbia Parkway in the summer of 2020. The removal of the vegetation exposed the toe of a landslide on the hillside above the retaining wall between Beechmont Avenue and the curve in the parkway below Alms Park. Comparison of photographs of the area suggests that the slide occurred sometime after June of 2018.



Columbia Parkway Landslinde, South of Beechmont, Area Map

A drone flight that included LIDAR to produce a topographic survey of the landslide and surrounding area was done in the spring of 2022. Landslide features were surveyed in early spring of 2023 and a test pit investigation was coordinated in spring of 2024. Although the slide mass is relatively dormant, corrective measures are necessary to remove the threat of rapid movement onto the pavement. Removal of the toe cannot take place until the slide mass is stabilized.

The landslide has a width as measured along the retaining wall of 250 feet. The elevation of the top of the eight-foot-high retaining wall is on the order of 595 feet. The head scarp of the landslide extends 150 feet in plan from the back of the wall to an elevation as high as 665 feet. Depth to bedrock is expected to be less than ten feet. There are two scarps within the slide mass in addition to the main head scarp. There is also a toe bulge within the slide mass in addition to the main toe bulge at the top of the wall. Many of the trees within the slide mass, which are more than likely Ash trees, are dead.

A soil nail and catchment approach like the stabilization method used to stabilize sections of Columbia Parkway west of Kemper Lane will be used to stabilize the landslide. The lower slide debris that rests directly above and on the retaining wall would be removed exposing the weathered bedrock surface. A 20-foot-wide catchment area will be placed just behind the existing wall. It is anticipated that an approximate 1.5H:1 cut will be initiated from the backside of the proposed catchment and extend through the bedrock and into the colluvium to its intersection with the existing ground surface. The colluvium and weathered bedrock exposed along the cut will be stabilized with a pattern of evenly spaced soil nails embedded sufficiently into the bedrock to derive the required resistance. The exposed surface in the cut will be covered with a turf reinforcement mat (TRM) followed by a high-tensile steel wire mesh anchored to the soil nails. The ground surface will be hydroseeded with a native wildflower and grass mixture.

Maintenance of traffic (MOT) will be a significant item. Inbound traffic will need to be diverted to the inbound lane. This requires removal of the existing center barrier for inbound traffic to enter and exit onto the outbound side of the barrier. This is the same MOT used on the ODOT repair of the Columbia Parkway bridges outbound of the landslide in CY 2022 and 2023. A construction ramp will be necessary to allow construction equipment onto the hillside above the existing retaining wall. Access to the landslide cannot be obtained outside of the landslide width in order not to destabilize the hillside.

This project is to be funded by both an OPWC-SCIP grant (2023) and the federal PROTECT grant (2024). The project is expected to be let as a design-build contract.

Columbia Parkway Landslide, South of Beechmont

Columbia Parkway Landslide, South of Beechmont

Riverside Drive Landslide at Rookwood Overpass
Neighborhood: East End
Estimated Construction Cost: $561,000
Estimated Preconstruction and Construction Management Costs: $97,892
Anticipated Construction Year: 2026

A landslide occurs above the existing retaining wall on the north side of Riverside Drive, US Truck Route 50, immediately west of the Rookwood Railroad Overpass.

The elevation of the top of the existing 15-foot retaining wall is approximately El. 523. The active landslide scarp is 100 to 150 feet north of the wall, at El. 570 +/-. The slide is approximately 180 feet wide (east-west) and covers nearly 1.5 acres of hillside. Test pits performed in the area in 2012 revealed that the surface of the bedrock is 4 to 5 feet below existing grades (deeper at the toe, where bulges have formed).

(The property above the wall is owned by the Park Board. Note extent of head scarp. Plastic sheet left behind after test pits were dug in 2011 to prevent water from seeping along scarp line into the slide mass. Plastic has since deteriorated and no longer exists.)

Significant movement has not occurred since the spring seasonal rains of 2011 however the bike lane regularly has rocks and mud in it due to the slow advancement of the landslide. Removal of the toe cannot take place until the slide mass is stabilized. The threat of rapid movement will exist until the slide mass is stabilized. The pavement in the area often remains wet during the winter due to seepage out of the landslide bulges that rest on top of the wall. This water freezes before reaching inlets and causes hazardous icing conditions.

Riverside Drive at Rookwood Overpass Landslide

The stabilization project is intended to be let as design/build to allow contractors to utilize their most efficient construction concepts to achieve the goal of keeping debris out of the roadway. The work is anticipated to include the construction of a soldier pile or soil nail stabilization system located approximately 20 feet behind the top of the existing wall for a length of 180 feet. The 20-foot setback will serve as a catchment zone if the stabilization system is over-topped.

An application for a Transit Infrastructure Fund grant submitted to SORTA for Program Year 2023 was not awarded, but the project will be funded at 80% by the federal PROTECT grant (2024), with the Retaining Wall Stabilization and Landslide Correction Program providing the 20% local fund match. This will be a design-build project bundled with the Columbia Parkway project.

Riverside Drive at Rookwood Overpass Landslide

Riverside Drive Retaining Wall at Friendship Park

Neighborhood: East End
Estimated Construction Cost: $1,565,217
Estimated Preconstruction and Construction Management Costs: $637,312
Anticipated Construction Year: 2027

The retaining wall on the southeast side of Riverside Drive is a stacked stone wall having a height of 2 ft at the entrance to Friendship Park to as high as 11 feet at the northeastern end of the wall. The age of the wall is not known but is more than likely greater than 100 yrs. There used to be a brick guardrail along the length of the wall. The base of the brick guardrail was on top of the stone wall approximately 3 ft. below the grade of the pavement. The portion of the brick guardrail above the roadway surface was replaced in 1992 with a guardrail railing with steel post embedded into a concrete cap.

The concrete cap is broken in numerous places. Portion of the brick wall is in disrepair and nonexistent along a substantial length of the 1,275 ft. length of wall. The upper three feet of roadway is no longer supported by the retaining wall. The guardrail does not provide any vehicular safety nor does the guardrail provide any safety to cyclists.

The project will stabilize the stone wall where needed and replace the upper brick with a concrete moment slab. A combination traffic and bicycle railing will be attached to the moment slab.

Applications to the Ohio Public Works Commission (OPWC) for SCIP grants in fiscal year 2022 and 2023 (Rounds 37 and 38) were unsuccessful. This project was included as part of the awarded federal PROTECT grant (2024), which provides 80% of the expected funding needs. An application for an OPWC - SCIP grant in fiscal year 2025 (Round 37 and 40) was recently submitted to help fund the local (20%) match to the federal grant.

Riverside Drive Retaining Wall at Friendship Park

Riverside Drive Retaining Wall at Friendship Park

Riverside Drive Retaining Wall at Friendship Park

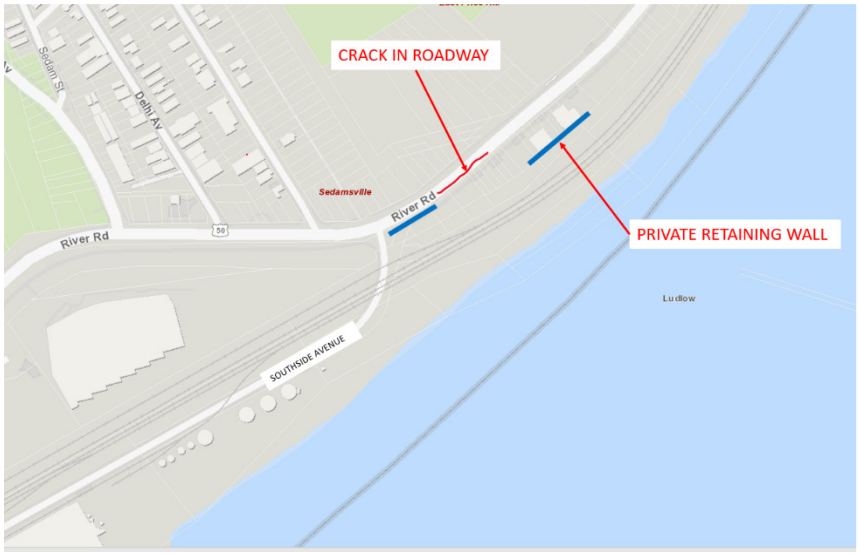
Riverside Drive Retaining Wall at Friendship Park

River Road (US 50) Landslide - East of Southside Avenue (Speedway Site)
Neighborhood: Sedamsville
Estimated Construction Cost: $1,304,348
Estimated Preconstruction and Construction Management Costs: $656,271
Anticipated Construction Year: 2027

A landslide located 300 feet east of the intersection of River Road and Southside Avenue extends into the eastbound travel lanes of River Road (US 50). A significant crack, with a dangerous set-down, has developed between the two eastbound lanes. The slide occurs between two retaining walls that support River Road, a private wall to the east and a public wall west of the slide. The length of the gap between the walls is on the order of 300 feet. This full gap will be stabilized.

The property on the south side of River Road is a Speedway Gas Station. DOTE worked with the gas station owner to complete test borings and install inclinometers to monitor movement. The repair type is likely to consist of a pier wall at the back of walk

This project is to be funded (80%) by the federal PROTECT grant (2024). An application for an OPWC - SCIP grant in fiscal year 2025 (Round 40) was recently submitted to help fund the local match to the federal grant. If not awarded, the Retaining Wall Stabilization and Landslide Correction Program will be providing the 20% local fund match.



River Road (US 50) Landslide - East of Southside

River Road (US 50) Landslide - East of Southside Avenue

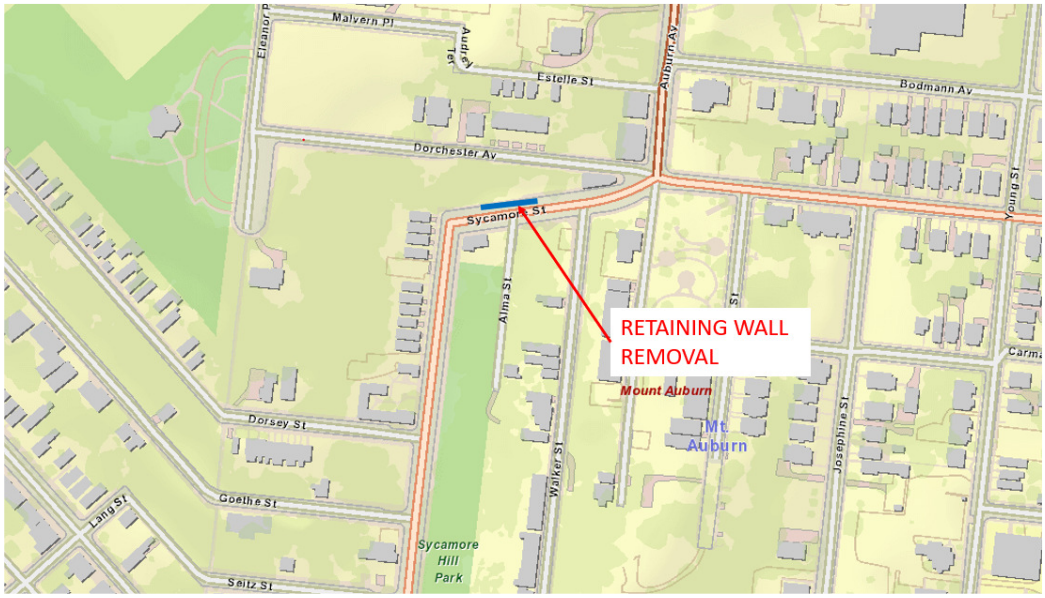
Sycamore Street Retaining Wall

Neighborhood: Mt. Auburn
Estimated Construction Cost: $209,598
Estimated Preconstruction and Construction Management Costs: $156,587
Anticipated Construction Year: 2026/2027

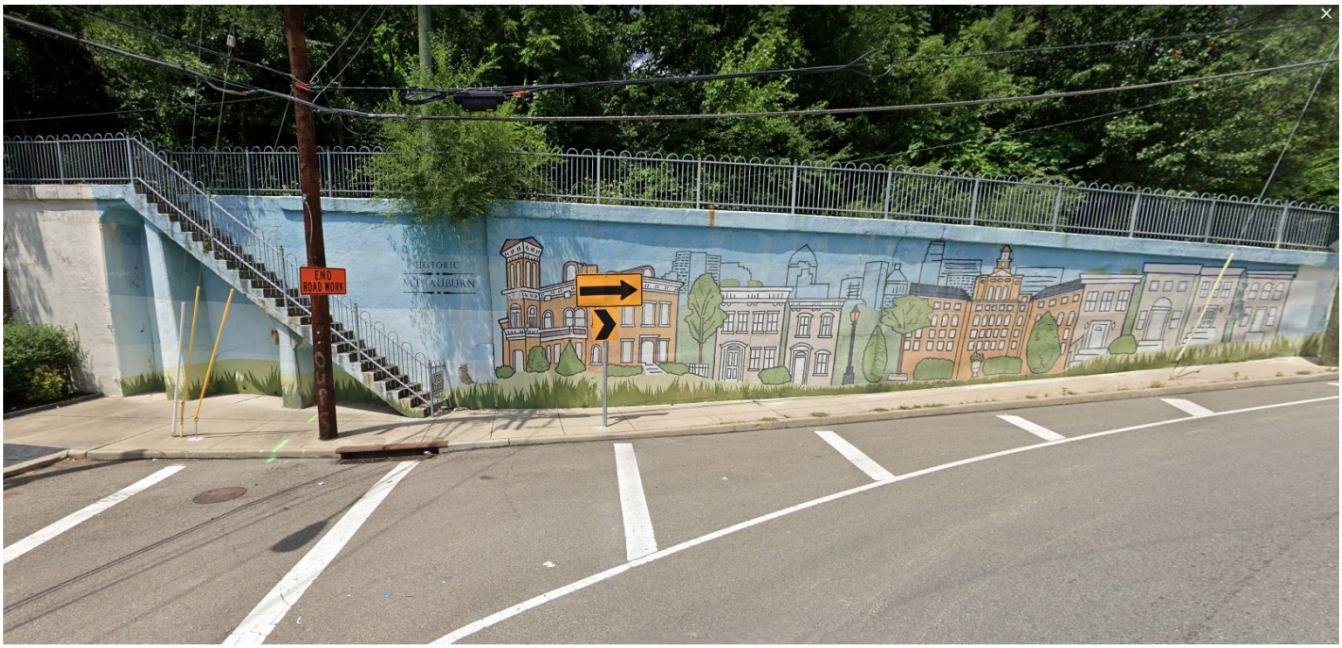
The 15-foot-tall retaining wall at the bend in Sycamore Street below Dorchester Avenue supports a city parcel that was formerly the right-of-way of Edinburgh Street. The wall has begun to lean quite significantly and poses a threat of collapsing onto the sidewalk and roadway below.

DOTE has determined that the wall is not necessary since the Edinburgh roadway was abandoned. The leaning portion of the wall is to be removed and the slope behind will be regraded. A small modular block wall will be used to facilitate the grading.

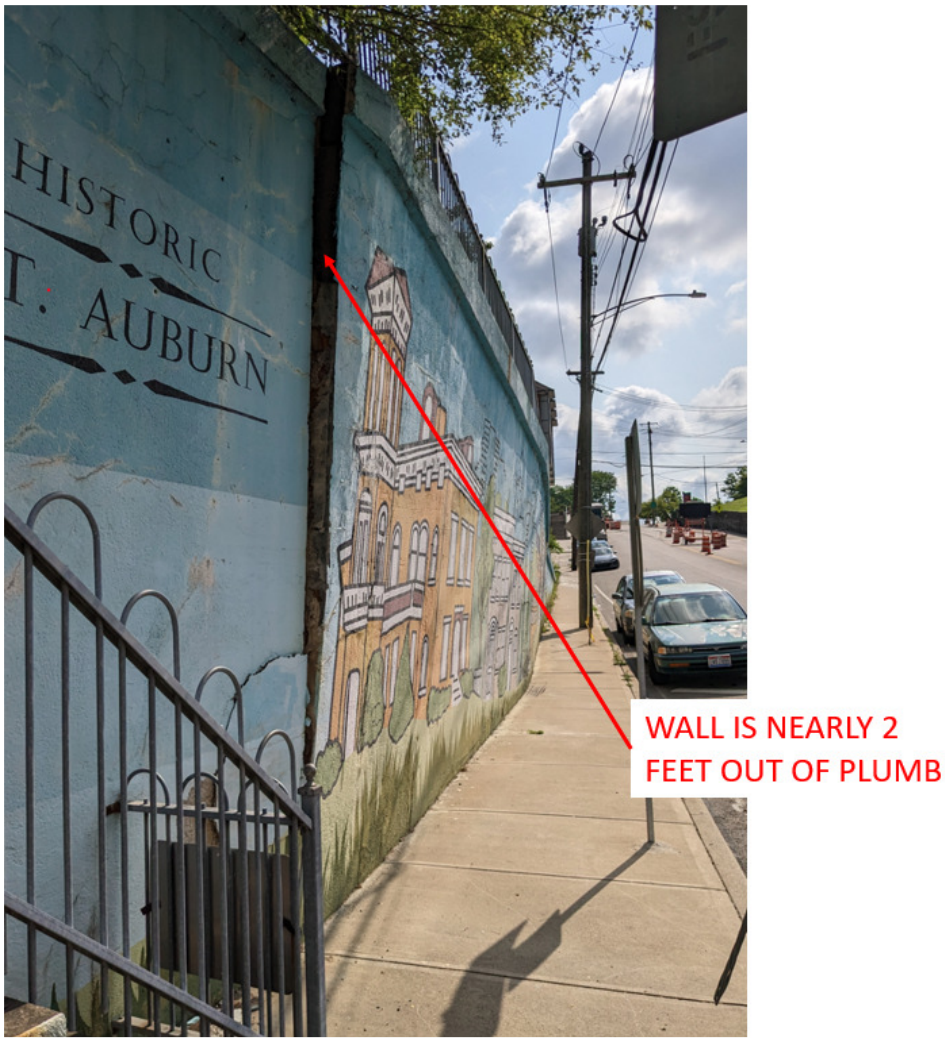
Plans are being developed by DOTE. The project is to be funded (80%) by the federal PROTECT grant (2024) with the Retaining Wall Stabilization and Landslide Correction Program providing the 20% local fund match.



Sycamore Street Retaining Wall



Sycamore Street Retaining Wall



Sycamore Street Retaining Wall

Hillside Avenue Landslides (Multiple Locations)
Neighborhood: Riverside
Estimated Construction Cost: $3,043,478
Estimated Preconstruction and Construction Management Costs: $737,437
Anticipated Construction Year: 2026/2027

Hillside Avenue from the City limits, near Anderson Ferry Road to the east terminus at River Road has numerous areas of instability. Many areas have been repaired over the years, but areas between those sections continue to require pavement work to remain safe. Hillside movement within the areas is slow but causes continuous, compounded damage over time. Movement takes place at the soil-bedrock contact, which accelerates during periods of excessive prolonged rainfall.

The Riverside Community made a budget request that was awarded $300,000 to initiate repairs. DOTE applied for and was awarded the federal PROTECT grant to expand the original scope of repairs. Six (6) areas between Anderson Ferry and Henrietta Street have been identified as priority and designs are currently being prepared by DOTE personnel.

The project is to be funded (80%) by the federal PROTECT grant (2024) with the community budget request (CBR) and Retaining Wall Stabilization and Landslide Correction Program providing the 20% local matching funds.

Hillside Avenue – Proposed Stabilization Areas

4291-4261 Hillside Avenue (Area 1)

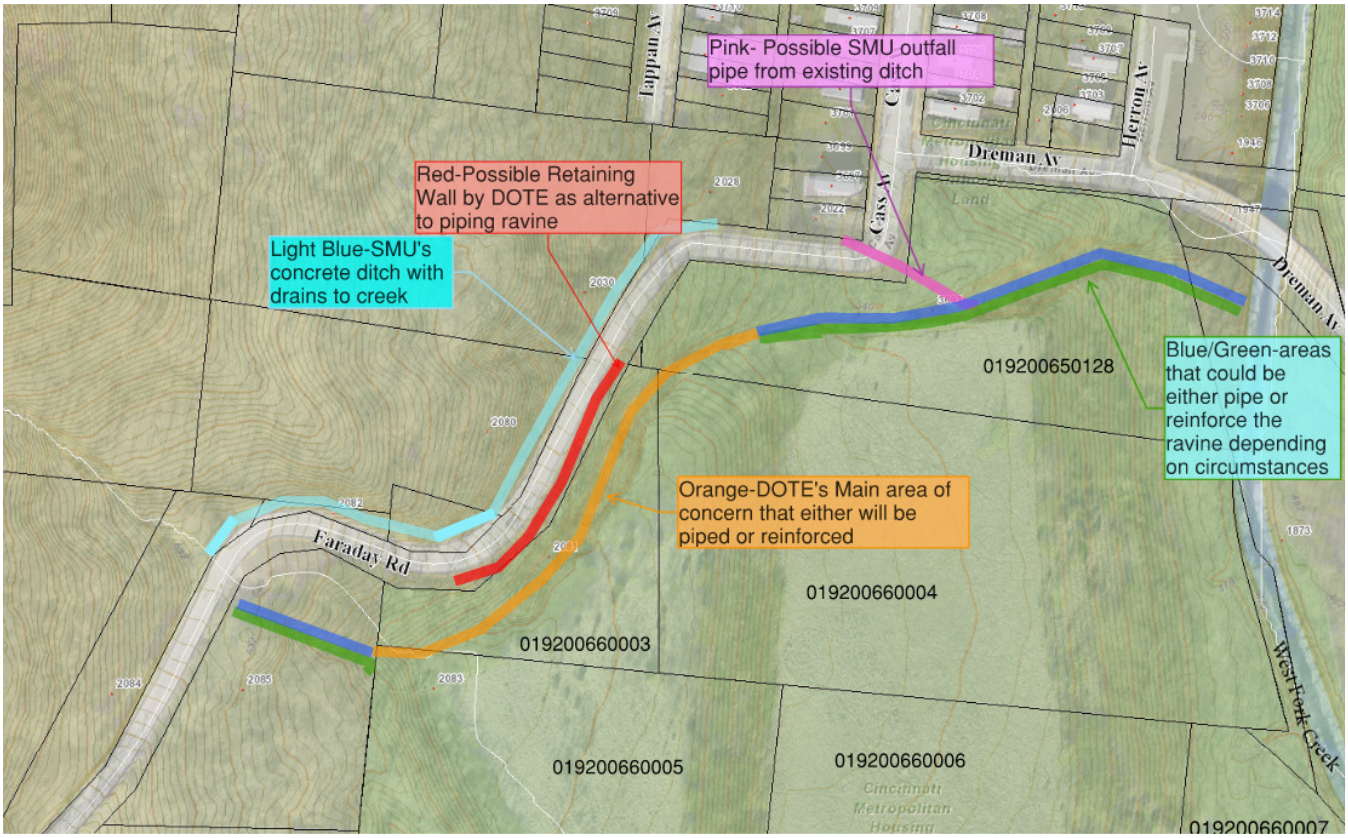
Faraday Road Landslide

Neighborhood: South Cumminsville / Villages of Roll Hill
Estimated Construction Cost: $1,304,348
Estimated Preconstruction and Construction Management Costs: $488,061
Anticipated Construction Year: 2027

A landslide is causing Faraday Road to slip toward an adjacent ravine. The total length of the movement is difficult to discern but appears to be 300 feet +/- and the upper limits of the slide (scarp) has resulted in a significant set-down in a sharp bend in the roadway. DOTE and Stormwater Management Utility (SMU) applied for state funding as a safety enhancement project as well as SCIP funding for an overall street improvement project for Faraday Road. The project was not awarded either of the grants.

DOTE initiated an investigation of the subsurface, including installation of an inclinometer to provide slope monitoring. The project is to be funded (80%) by the federal PROTECT grant (2024) with Stormwater Management Utility and Retaining Wall Stabilization and Landslide Correction Program funding the 20% local match.

The repair will consist of piping and filling 800 feet of the ravine along the east side of the road and will include an improved outfall to the West Fork Channel as well as a paved gutter on the west (upslope) side of Faraday Road to intercept surface water. The design is being completed by a consultant contracted through DOTE.



Faraday Road – Area of Work

Faraday Road - Scarp (set down) in Pavement (has since been patched)

<u>Eleanor Place Retaining Wall and Gage Street Stairs</u>
Neighborhood: Mt. Auburn
Estimated Construction Cost: $652,174
Estimated Preconstruction and Construction Management Costs: $173,695
Anticipated Construction Year: 2026/2027

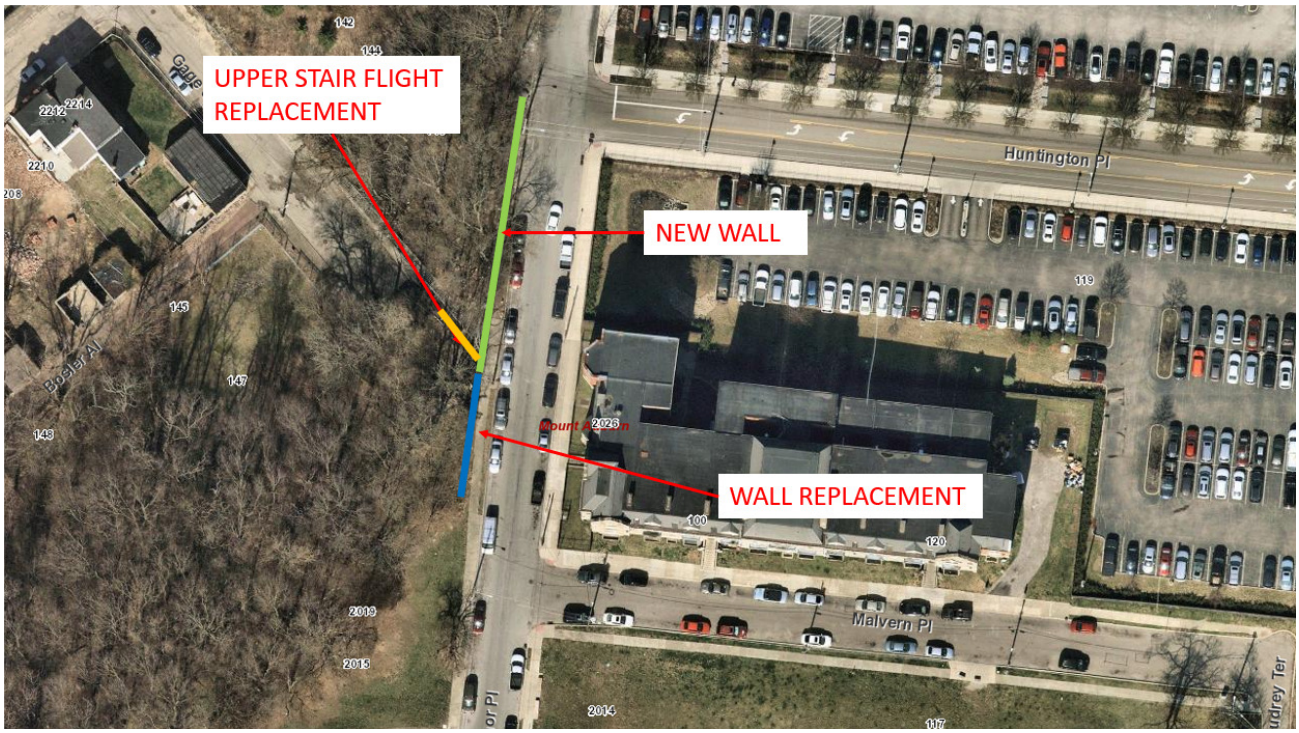
The retaining wall along the west side of Eleanor Place between Huntington Place and Malvern Place is failing and a portion has collapsed. The wall supports a structural sidewalk and serves as the upper landing for stairs that connect to Gage Street below. The failure is damaging the sidewalk and curb and the connection to the stairs. The upper flight of stairs is being pushed downslope.

The 8-foot+/- tall retaining wall, the sidewalk and the upper flight of stairs will need to be reconstructed in this area.

A buried drilled pier wall will also be added north of the stairs to remediate a slow-moving slide that has begun to impact the curb alignment.

The project extends a total of approximately 205 feet in length.

Plans are being developed by DOTE. The project is to be funded (80%) by the federal PROTECT grant (2024) with the Retaining Wall Stabilization and Landslide Correction Program providing the 20% local funding match.



Eleanor Place – Site Overview

Eleanor Place - Collapsed Wall Section

Eleanor Place - Upper Flight of Stairs (pushed by wall deflection)

Coy Street Landslide

Neighborhood: CUF

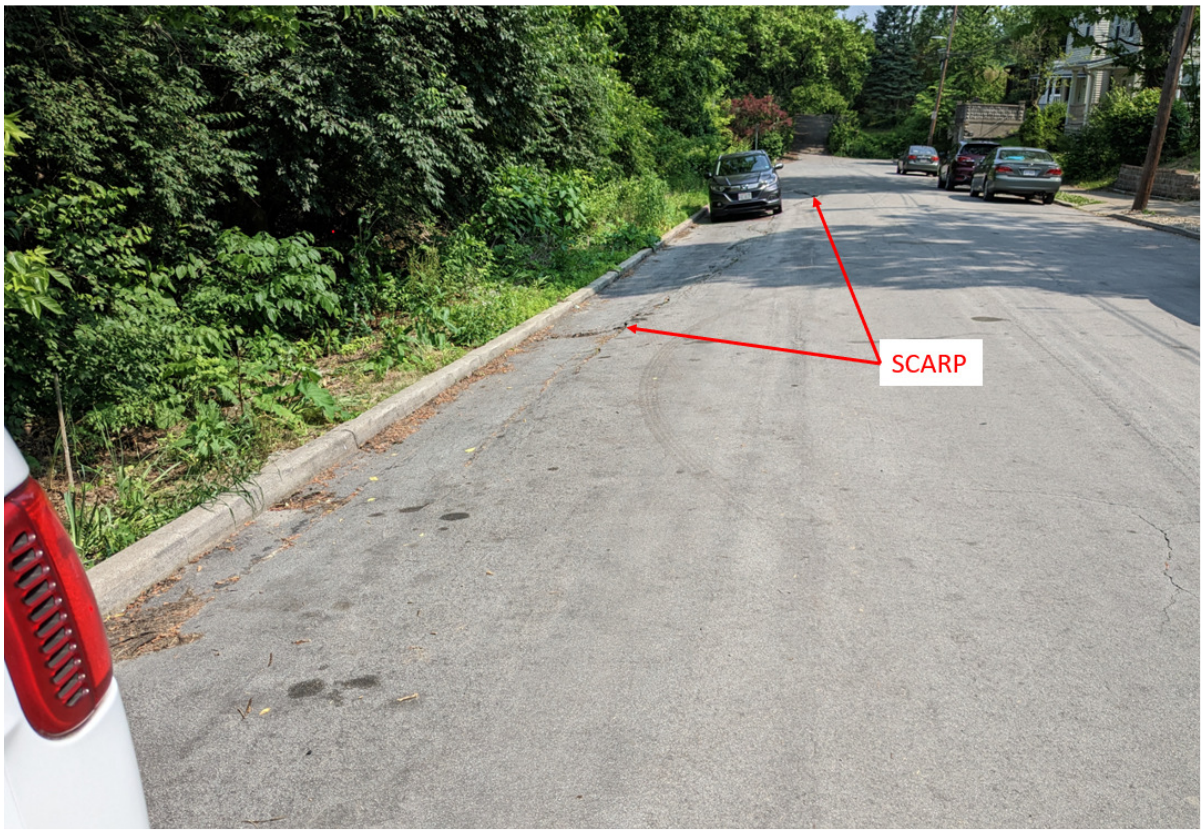
Estimated Construction Cost: $652,174
Estimated Preconstruction and Construction Management Costs: $173,695
Anticipated Construction Year: 2026/2027

A landslide extends into the west side of Coy Street for a length of approximately 250 feet. This has caused a crack and dangerous set-down of as much as 6 inches in the westernmost parking lane but is extending into the travel lane and toward underground utilities.

DOTE had borings drilled and is monitoring this area with an inclinometer. A buried drilled pier wall will be installed just west of the edge of pavement for a length of approximately 250 feet.

Plans are being developed by DOTE. The project is to be funded (80%) by the federal PROTECT grant (2024) with the Retaining Wall Stabilization and Landslide Correction Program providing the 20% local funding match.

Coy Street



Coy Street

Coy Street

SECTION 2

2025 Retaining Wall Rating Summary

List of Walls in Poor (3) and Critical (4) Condition

Structural Condition Rating Definitions

0 to 1 Excellent
No-to-very-low extent of very low distress. Defects are minor, are within the normal range for *newly constructed or fabricated* elements and may include those resulting from fabrication or construction. Ratings of 0-1 are only given to elements with very minor to no distress whatsoever –conditions typically seen only shortly after wall construction or substantial wall repairs.

1 to 2 Good
Low-to-moderate extent of low severity distress. Distress does not significantly compromise the element's function, nor is there significant severe distress to major structural components. Ratings of 1 to 2 indicate highly functioning wall elements that are only beginning to show the first signs of distress or weathering.

2 to 3 Satisfactory
High extent of low severity distress and/or low-to-medium extent of medium to high severity distress. Distress present does not compromise element function, but lack of treatment may lead to impaired function and/or elevated risk of element failure in the long term. Ratings of 2 to 3 indicate functioning wall elements with specific distresses that need to be mitigated to avoid significant repairs or element replacement in the longer term.

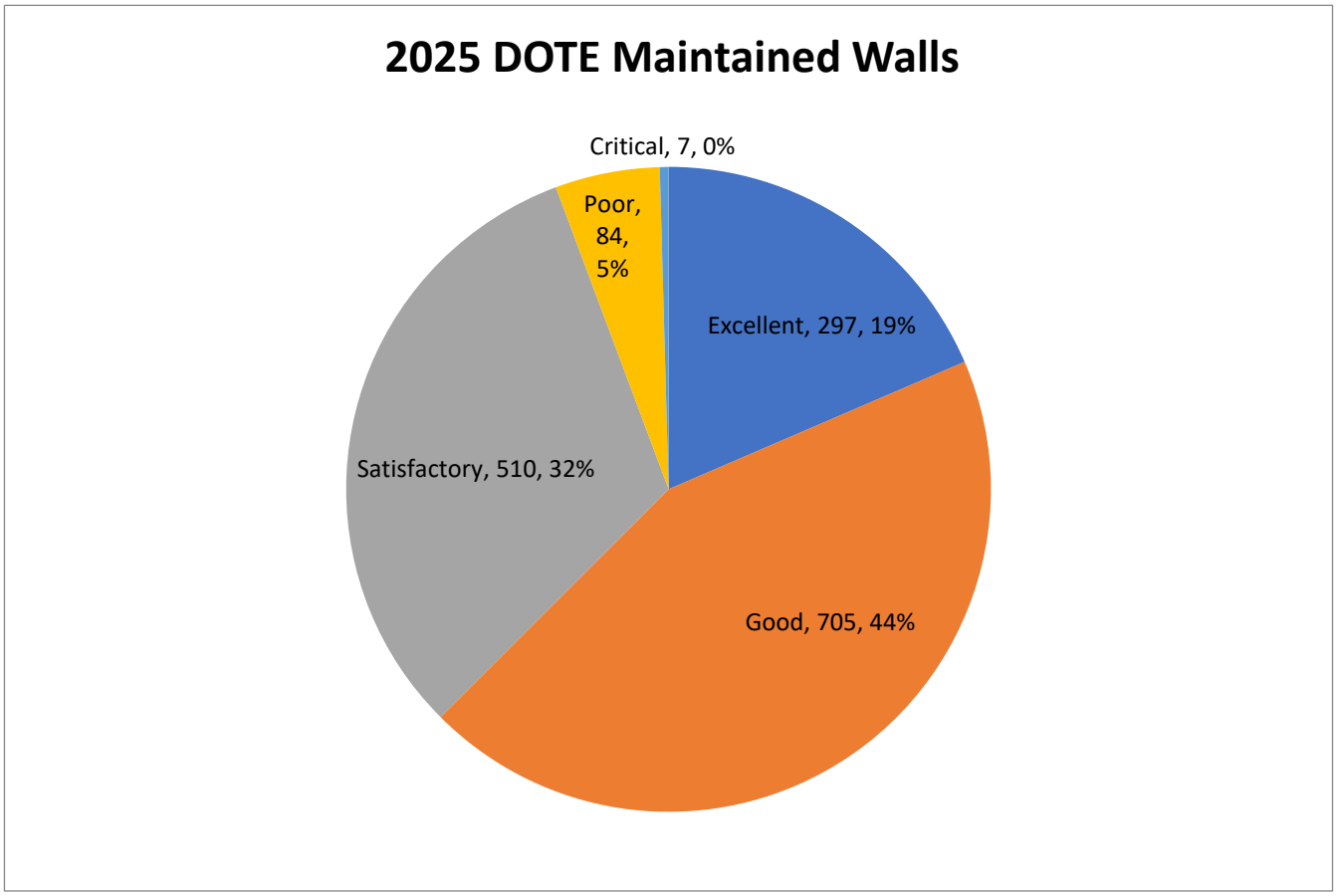
3 to 4 Poor
Medium-to-high extent of medium-to-high severity distress. Distress present threatens element function, and strength is obviously compromised and/or structural analysis is warranted. The element condition does not pose an immediate threat to wall stability. A rating of 3 to 4 indicates marginally functioning, severely distressed wall elements in jeopardy of failing without element repair or in need of repair to prevent further deterioration at an accelerated rate.

4 Critical
Medium-to-high extent of high severity distress. Element is no longer serving intended function. Element performance is threatening overall stability of the wall at the time of inspection. In practice, a rating of 4 indicates a wall that is no longer functioning as intended and is in danger of failing.

2025 Stuctural Rating Summary for Walls Maintained by DOTE

RATING	COUNT	PERCENT by COUNT	LENGTH (FEET)	PERCENT by LENGTH	AREA (SQ. FEET)	PERCENT by AREA
Excellent	297	18.53%	53,155	18.69%	296,882	14.21%
Good	705	43.98%	121,129	43.38%	936,127	44.82%
Satisfactory	510	31.82%	87,260	31.25%	717,973	34.38%
Poor	84	5.24%	16,173	5.79%	124,580	5.96%
Critical	7	0.44%	1,718	0.62%	14,315	0.69%
TOTALS	1,603	100%	279,238	100%	2,088,547	100%

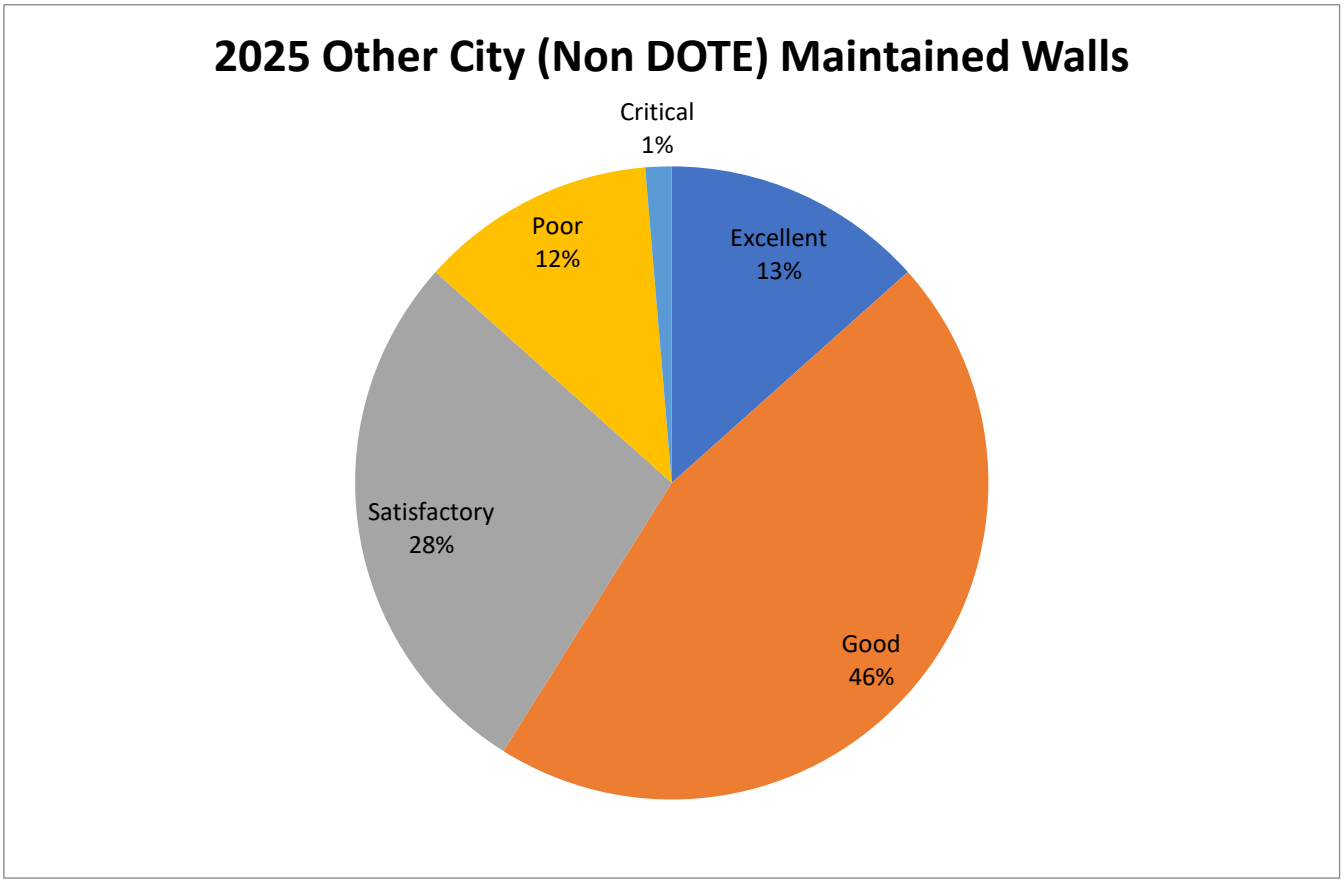
52.89 Miles



2025 Stuctural Rating Summary for City Walls NOT MAINTAINED by DOTE

RATING	COUNT	PERCENT BY COUNT	LENGTH (FEET)	PERCENT by LENGTH	AREA (SQ. FEET)	PERCENT by AREA
Excellent	30	13.39%	4,509	10.35%	34,957	11.14%
Good	102	45.54%	19,090	43.82%	146,640	46.73%
Satisfactory	62	27.68%	14,928	34.27%	106,415	33.91%
Poor	27	12.05%	4,799	11.02%	24,210	7.72%
Critical	3	1.34%	236	0.54%	1,550	0.49%
TOTALS	224	100%	43,562	100%	313,772	100%

8.25 Miles



DOTE Maintained Wall with Structural Rating of 3 (Poor Condition)

Wall ID	Side	House Numbers	Street Name	Wall Length	Height (Max)	Wall Type
153-009	E	6308 to 6308	Gracely Drive	50	4.1	Toe, Concrete
157-003A	S	5581 to 0	River Road	400	4	Cantilever, Concrete
157-003B	S	5617 to 5643	River Road	400	6	Cantilever, Concrete
198-007B	S	4487 to 4529	River Road	500	10	Cantilever, Concrete
198-007C	S	4531 to 4573	River Road	500	10	Cantilever, Concrete
201-017A	S	4319 to 4331	River Road	390	4.5	Cantilever, Concrete
201-017B	S	4277 to 4277	River Road	412	6.4	Cantilever, Concrete
201-019	N	4294 to 4302	River Road	227	5	Cantilever, Concrete
241-009	W	821 to 881	Nebraska Avenue	431	7.3	Cantilever, Concrete
244-008	S	3645 to 3645	Hillside Avenue	60	2.5	Gravity, Mortared Stone
244-016	N	4001 to 4003	River Road	75	2.8	Gravity, Concrete
244-026	N	614 to 614	Baurichter Street	105	4.1	Gravity, Concrete
244-073	W	3934 to 3936	Bowditch Street Steps	8	3	Gravity, Mortared Stone
248-011B	N	998 to 1004	Delhi Avenue	276	9	Toe, Concrete
250-059	N	3818 to 3820	Latham Avenue	115	9	Gravity, Dry Stone
251-028	S	2475 to 2481	Queen City Avenue	220	3	Precast Modular
252-021	N	2726 to 2729	Ruberg Avenue	49	3.7	Gravity, Concrete
281-002	W	4929 to 4929	Kirby Avenue	132	5.5	Gravity, Dry Stone
284-002A	E	2094 to 2156	Baltimore Avenue	433	12	Cantilever, Concrete
284-002B	E	2078 to 2092	Baltimore Avenue	433	11.5	Cantilever, Concrete
284-010B	S	3584 to 3588	Mchenry Avenue	130	6	Gravity, Concrete
285-021B	E	2004 to 2022	Baltimore Avenue	365	7.8	Gravity, Concrete
285-022	W	2035 to 2047	Baltimore Avenue	255	8.1	Gravity, Concrete
285-037	W	2079 to 2087	Baltimore Avenue	132	2.3	Cantilever, Concrete
286-008	W	2431 to 2437	Saffin Avenue	165	3	Gravity, Mortared Stone
286-122	S	2165 to 2166	Clara Street	28	3	Gravity, Dry Stone
287-001	W	1327 to 1403	Bowman Avenue	149	10.3	Gravity, Dry Stone
287-038	S	0 to 0	Sterrett Avenue	65	5.5	Gravity, Dry Stone
288-025A	W	0 to 0	Glenway Avenue	210	8.1	Gravity, Concrete
288-050	W	2417 to 2417	Glenway Avenue	35	11	Gravity, Concrete
288-080	S	2511 to 2513	Warsaw Avenue	58	4	Gravity, Concrete
288-107A	N	2630 to 2698	Maryland Avenue	378	7.3	Gravity, Dry Stone
288-107B	N	0 to 0	Maryland Avenue	183	7.5	Gravity, Dry Stone
294-011	E	2452 to 2470	Beekman Street	307	16	Gravity, Mortared Stone
294-085	S	0 to 0	Queen City Alley	25	2.3	Gravity, Concrete
295-029	S	1647 to 1729	Baltimore Avenue	633	10.5	Precast Modular
295-102	N	1630 to 1648	Baltimore Avenue	155	4	Pier, Cantilever
326-028	W	0 to 0	Clifton Avenue	115	1	Precast Modular
328-005	W	2895 to 2895	Mcmicken Avenue, West	264	13	Gravity, Concrete
329-001	E	0 to 0	Central Parkway	120	8.3	Gravity, Concrete
329-015B	N	512 to 590	Straight Street	245	10.5	Gravity, Dry Stone
329-144A	W	0 to 0	Hukill Alley	150	11	Gravity, Mortared Stone
329-146	S	537 to 539	Atlas Alley	53	3	Cantilever, Concrete
329-147	E	0 to 0	Freeman Avenue Steps	26	5	Gravity, Dry Stone

DOTE Maintained Wall with Structural Rating of 3 (Poor Condition)

Wall ID	Side	House Numbers	Street Name	Wall Length	Height (Max)	Wall Type
329-247	E	0 to 0	Clemmer Avenue Steps	48	5	Gravity, Block
330-053B	N	2148 to 2172	Central Avenue	350	13.5	Cantilever, Concrete
330-058	S	1 to 5	Peete Alley	72	8.5	Gravity, Concrete
330-071	N	0 to 0	Gage Street	161	6.6	Cantilever, Concrete
332-001	N	322 to 322	Third Street, West	38	18	Gravity, Mortared Stone
335-063	W	0 to 0	Carney Street	22	1.5	Cantilever, Concrete
335-066	W	0 to 0	Carney Street	83	12	Cantilever, Concrete
335-110	S	0 to 0	St Gregory Place	196	6	Gravity, Concrete
335-125	N	0 to 0	Wareham Drive	187	12.5	Gravity, Concrete
335-152	E	0 to 0	Celestial Steps	81	8	Gravity, Mortared Stone
335-165	N	0 to 0	Celestial Steps	41	11	Gravity, Dry Stone
335-217	S	325 to 353	Baum Street	255	20	Gravity, Dry Stone
336-095	E	0 to 0	Broadway Steps	80	5.5	Gravity, Mortared Stone
336-149	N	1815 to 1823	Sycamore Street	192	15.5	Gravity, Concrete
336-176	W	0 to 0	Audrey Terrace	64	8.3	Gravity, Mortared Stone
336-307	S	121 to 125	Dorchester Avenue	62	12	Gravity, Mortared Stone
336-404	N	0 to 0	Ringgold Street Steps	57	1.5	Gravity, Mortared Stone
337-192	N	0 to 0	Mcgregor Avenue	100	6	Gravity, Concrete
338-079	W	0 to 0	Alameda Place	97	5.5	Gravity, Concrete
339-065	S	511 to 517	Forest Avenue	84	1	Toe, Concrete
371-050A	E	1499 to 1525	Riverside Drive	460	11	Gravity, Mortared Stone
371-050B	S	1451 to 1497	Riverside Drive	460	9	Gravity, Mortared Stone
371-050C	S	1401 to 1449	Riverside Drive	460	7.5	Gravity, Mortared Stone
371-054	E	0 to 0	Kemper Lane	235	6.2	Gravity, Mortared Stone
371-074	S	0 to 0	Columbia Parkway	90	16	Cantilever, Concrete
372-005	W	1349 to 1351	Bains Street	135	12	Gravity, Mortared Stone
375-007	S	404 to 405	Torrence Court	60	4	Cantilever, Concrete
376-020	S	1845 to 1845	Duck Creek Road	35	1	Toe, Concrete
376-065	N	0 to 0	Duck Creek Road	81	4.1	Toe, Concrete
407-012	N	2718 to 2736	Gregson Place	185	7.8	Toe, Concrete
409-037	S	3101 to 3133	Walworth Avenue	385	15	Cantilever, Concrete
409-050	N	3000 to 3026	Columbia Parkway	460	12	Toe, Concrete
409-056	S	0 to 0	Columbia Parkway	185	7	Crib, Pre-Cast Concrete
409-071	E	268 to 270	Brown Street	50	2.8	Gravity, Concrete

Total Wall Length: 15,013.00

DOTE Maintained Wall with Structural Rating of 4 (Critical Condition)

Wall ID	Side	House Numbers	Street Name	Wall Length	Height (Max)	Wall Type
244-006A	S	3645 to 3645	Hillside Avenue	55	3	Gravity, Mortared Stone
244-006B	S	3645 to 3645	Hillside Avenue	41	3	Gravity, Dry Stone
287-005	E	1300 to 1302	Lockwood Avenue	70	11.5	Gravity, Mortared Stone
293-034	E	1350 to 1350	Ernst Street	20	2.4	Gravity, Concrete
294-062D	E	2624 to 2660	Cummins Street	480	15	Cantilever, Concrete
327-043	N	100 to 100	Glenmary Avenue	25	3.3	Cantilever, Concrete
329-133A	W	0 to 0	East Alley	310	10.5	Gravity, Mortared Stone
330-036	W	1776 to 1921	Central Parkway	492	5.3	Gravity, Concrete
371-055	E	0 to 0	Kemper Lane	321	13	Cantilever, Concrete
423-104	W	647 to 647	Delta Avenue	20	2	Gravity, Concrete

Total Wall Length: 1,834.00

City owned Walls Not Maintained by DOTE with Structural Rating of 3 (Poor Condition)

Wall ID	Side	House Numbers	Street Name	Wall Length	Height (Max)	Wall Type
115-011	S	6901 to 6941	River Road	300	3	Gravity, Dry Stone
283-001	W	0 to 0	Todd Avenue	45	6.5	Tee- Wall
286-150	N	1710 to 1710	Harrison Avenue	13	4	Gravity, Concrete
287-100	N	0 to 0	Lockwood Place Steps	40	13	Gravity, Mortared Stone
287-101	N	0 to 0	Lockwood Place Steps	50	6	Gravity, Mortared Stone
289-028	S	0 to 0	Pavillion Drive	339	4.8	Pier, Cantilever
297-099	N	4123 to 4125	Virginia Avenue	46	3	Gravity, Mortared Stone
327-003	N	500 to 502	Mcalpin Avenue	288	6	Gravity, Mortared Stone
329-129	E	2308 to 2346	Vine Street	179	6	Gravity, Concrete
329-131	N	6 to 26	Thill Street	281	6.5	Gravity, Concrete
330-237	S	6 to 12	Hust Alley	90	12	Cantilever, Concrete
332-010	S	401 to 409	Third Street, West	65	17	Gravity, Mortared Stone
335-211	W	1301 to 1301	Sycamore Street	316	3	Tee- Wall
335-349	N	0 to 0	Celestial Street Steps	150	4	Gravity, Mortared Stone
336-268	E	1799 to 1799	Art Museum Drive	648	3.5	Gravity, Concrete
336-309	E	0 to 0	Gilbert Avenue	580	3.5	Gravity, Dry Stone
336-310	N	0 to 0	Gilbert Avenue	290	5	Gravity, Dry Stone
336-376	E	2044 to 2056	Gilbert Avenue	164	3.5	Gravity, Dry Stone
337-311	E	2600 to 2600	Van Street Parking Lot	60	5	Toe, Concrete
339-079	S	0 to 0	Forest Avenue	131	3	Gravity, Mortared Stone
371-052	W	619 to 619	Kemper Lane	50	5.7	Gravity, Mortared Stone
371-088	E	0 to 0	Martin Drive	233	2.2	Gravity, Mortared Stone
372-008	N	0 to 0	Columbia Parkway	120	9	Gravity, Mortared Stone
375-118	S	2425 to 2445	Riverside Drive	124	3	Gravity, Mortared Stone
375-155	N	2342 to 2352	Gladstone Av (Private)	180	9	Gravity, Dry Stone
409-068	N	2998 to 2998	Riverside Drive	8	2	Gravity, Brice
409-069	N	3000 to 3000	Riverside Drive	9	2	Gravity, Brick

Total Wall Length: 4,799.00

City owned Walls Not Maintained by DOTE with Structural Rating of 4 (Critical Condition)

Wall ID	Side	House Numbers	Street Name	Wall Length	Height (Max)	Wall Type
281-023	W	5083 to 5087	Colerain Avenue	128	2	Gravity, Mortared Stone
288-130	W	611 to 615	Maryland Avenue	108	7.3	Gravity, Mortared Stone
330-152A	E	0 to 0	Elysian Place	36	7	Gravity, Mortared Stone
336-162	W	0 to 0	Eleanor Place	72	6.5	Gravity, Mortared Stone

Total Wall Length: 344.00

SECTION 3

Wall Repair Priority and Estimated Funding

Wall Stabilization & Landslide Correction Six-Year Plan

WALL REPAIR PRIORITY & ESTIMATED FUNDING

Wall #	Street	Length	Area	Type	Comments	Priority	Fund	Estimate
285-022	Baltimore Av	255	1050	CC	repair deteriorated cap & railing	HIGH	capital	$30,000
286-088	Harrison Av	32	160	CC	replace delaminated wall cap & railing	HIGH	capital	$30,000
329-133A	East Alley	310	10.5		rebuild stone wall	HIGH	capital	$80,000
337-081B	Maplewwod Av	79	400	G5	replace wall with modular wall	HIGH	capital	$120,000
409-056	Columbia Pkwy	318	4.7	G1	Crib Wall along road deteriorating	HIGH	capital	$200,000
					5 WALLS	**HIGH**	**capital**	**$460,000**
157-003A	River Road	400	4	CC	Deteriorated/Cracks, Chip and Patch, Clear and Gub	MED	capital	$6,000
157-003B	River Road	400	6	CC	Deteriorated/Cracks, Chip and Patch, Clear and Gub	MED	capital	$7,200
198-007B	River Road	500	10	CC	Deteriorated/Cracks, Chip and Patch, Clear and Gub	MED	capital	$7,200
198-007C	River Road	500	10	CC	Deteriorated/Cracks, Chip and Patch, Clear and Gub	MED	capital	$7,200
241-009	Nebraska Av	431	2260	CC	deteriorated, cracks , chip and patch	MED	capital	$48,000
285-037	Baltimore Av	132	320	CC	replace wall cap & railing	MED	capital	$36,000
288-037					Patch delaminated wall areas.	MED	capital	$100,000
289-021	Elberon Avenue	422	3700	G5	Patch delaminated wall areas/ fix damaged GR.	MED	capital	$100,000
329-001	Central Parkway	120	8.3	CC	Remove and replace 30 ft± section	MED	capital	$35,000
329-126A	McMillan St	380	2200	CC	broken end & railing, patch and replace	MED	capital	$91,200
329-126B	McMillan St	152	1200	CC	broken cap, chip and patch	MED	capital	$37,200
329-129K	Vine St	179	950	G5	patch/repair wall cap	MED	capital	$180,000
330-036	Central Pkwy	492	1700	CC	tilted, deteriorated cap	MED	capital	$48,000
330-053B	Central Av	350	3700	CC	broken cap & spalled face, chip and patch	MED	capital	$4,000
336-149	Sycamore St	192	15	G2	Mortar Stone wall where it meets Concrete All	MED	capital	$8,000
337-047	Mcmillan St	110	500	G5	underpin wall	MED	capital	$72,000
371-074	Col. Pkwy	90	1400	CC	delaminated face, chip, patch and repaint	MED	capital	$45,600
375-007	Torrence Ct.				Replace Wall	MED	capital	$150,000
422-038B	Tusculum Ave	294	1500	CC		MED	capital	$150,000
					19 WALLS	**MED**	**capital**	**$1,132,600**
244-006A	Hillside Av	55	150	G2	deteriorated, replace with modular	LOW	capital	$26,400
244-006B	Hillside Av	41	120	G2	deteriorated, replace with modular	LOW	capital	$19,680
244-008	Hillside Av	60	120	G2	moved and settled, replace with modular	LOW	capital	$28,800
244-026	Baurichter St	105	450	CC	cracked, leaning, replace with modular	LOW	capital	$33,600
248-011A	Delhi Av	198	750	CC	delaminated toewalk, chip and patch toe	LOW	capital	$12,000
248-011B	Delhi Av	276	2500	CC	delaminated toewalk, chip and patch toe	LOW	capital	$12,000
249-014	Olive Av	94	280	CC	leaning, replace with concrete	LOW	capital	$12,000
250-059	Latham Av	50	850	G2	stones missing, replace with modular	LOW	capital	$18,000
251-028	Queen City Av	220	800	PM	wrecked & salt damage, replace with modular	LOW	capital	$48,000
251-030B	Queen City Av	357	1900	PM	wrecked & salt damage, replace with modular	LOW	capital	$102,000
253-002	McHenry Av	146	720	CC	replace leaning panel	LOW	capital	$6,000
286-008	Saffin St	165	450	G2	deteriorated wall & steps, rebuild existing	LOW	capital	$36,000
286-122	Clara Street	28	3	G1	Failed wall, replace with modular	LOW	capital	$30,000
286-150	Harrison Av	13	65	CC	replace wall w/ modular	LOW	capital	$12,000
287-001	Bowman Av	149	1500	G2	broken cap & steps, replace cap mortar stone	LOW	capital	$33,600
287-005	Lockwood Av	70	900	G2	cracked corner, repair stone replace cap	LOW	capital	$42,000
287-022	Grand Av	60	325	TC	Toe removed, check tilt, will need replaced	LOW	capital	$48,000
287-038	Sterrett Avenue	65	6	G1	damaged wall, replace with modular	LOW	capital	$36,000
288-080	Warsaw	20	350	CC	leaning, replace with CIP	LOW	capital	$21,600
288-107A	Maryland Av	378	2700	G2	deteriorated & bulged, rebuild stone	LOW	capital	$360,000
288-107B	Maryland Av	183	1300	G2	deteriorated & bulged, rebuild stone	LOW	capital	$180,000
329-015B	Straight St	245	2400	G2	bulged & tilted, replace	LOW	capital	$336,000
335-110	St Gregory Pl	196	650	CC	delaminated upper part, repair cap	LOW	capital	$24,000
336-307	Dorchester St	62	750	G2	deteriorated cap, replace with modular	LOW	capital	$42,000
337-242	Presley Al	150	700	G2	bulged and moved, rebuild stone , railing	LOW	capital	$48,000
339-091	Rockdale Av	170	1600	CC	deteriorated concrete, replace with CIP	LOW	capital	$180,000
370-125	Wm H Taft Rd	32	125	G2	bulged under sidewalk, replace cap	LOW	capital	$12,000
371-054	Kemper Ln	235	1300	G2	cap partially missing, replace wall	LOW	capital	$282,000
371-055	Kemper Ln	321	3600	CC	top delaminated, replace wall	LOW	capital	$385,200
371-056	Kemper Ln	390	3400	CC	moved, replace wall	LOW	capital	$468,000
423-104	Delta Av	20	40	CC	damaged wall, replace with modula4r	LOW	capital	$30,000
452-001A	Kennedy Av	318	1900	G2	bulged, rebuild existing	LOW	capital	$18,000
452-001B	Kennedy Av	318	1900	G2	bulged & moved, rebuild existing	LOW	capital	$18,000
					33 WALLS	**LOW**	**capital**	**$2,960,880**
201-017A	River Road	390	4.5	CC	Deteriorated/Cracks, Chip and Patch, Clear and Gub	HIGH	maint.	$7,200
248-015	Dehli Avenue	38	130	CC	Replace missing railing section @ SE.	HIGH	maint.	$2,000
253-031	Broadbeck Pl.	130	850	CC	Remortar stones on top.	HIGH	maint.	$2,400
253-033	Broadbeck Pl.	150	1350	CC	Remortar stones on top.	HIGH	maint.	$3,600
281-003	Kirby Ave	302	2800	G2	Wall has new driveway through midwall/ railing missing on half of wall.	HIGH	maint.	$3,600
281-005	Colerain Av	360	1700	PC	repair guardrail	HIGH	maint.	$6,000
281-029	Kirby Ave.	11	40	PM	Restack/replace missing blocks.	HIGH	maint.	$1,200
281-037	Kirby Ave.	12	40	PM	Restack/replace missing blocks.	HIGH	maint.	$1,200
288-078		165	1150	G2	Replace bent/loose railing panels.	HIGH	maint.	$10,000
289-005	Elberon Avenue	485	6100	G2	Patch delaminated area @ NW. 2'x6' PARKS	HIGH	maint.	$5,000
293-060D	Lehman Road	170	1700	PC	check out erosion of earth below wall panels where pea gravle is spilling out.	HIGH	maint.	$5,000
294-011	Beekman St	307	5600	G2	repair stone barrier	HIGH	maint.	$4,800
296-028	Blue Rock Av	296	1500	G5	replace missing blocks	HIGH	maint.	$3,000
298-034	Kirby Ave.	145	250	PC	Replace missing railing section; grout rail post pockets; patch wall cap/sidewalk	HIGH	maint.	$3,600
328-005	Mcmicken Avenue, West	264	3300	G5	Repair/replaceb 4 missing horiz rail sections.	HIGH	maint.	$1,200
329-105	Klotter Ave.	22	130	G2	Replace missing portion of railiing.	HIGH	maint.	$2,000
330-029	Central Pkwy				Resecure loose rail @ S; Replace missing post caps.	HIGH	maint.	$1,000
330-058	Peete Alley	72	700	G5	Remove loose piece of wall dangling by rebar connection.	HIGH	maint.	$500
335-046	Old Locke St.	112	950	G2	Remove fallen wall cap block at S end.	HIGH	maint.	$500
335-063	Carney St.	22	50	CC	Corner of wall wrecked/holed. Reform corner of wall.	HIGH	maint.	$600
335-146	Elsinore Ave	116	600	PC	Grind down or fill remaining rail post stubs.	HIGH	maint.	$1,500
336-051	Decker Alley	101	900	G2	Patch 3' long section of crumbling wall cap.	HIGH	maint.	$500
336-266	Eden Park Dr	523	2200	G5	Replace cracked/delaminated wall panels.	HIGH	maint.	$3,600
337-112	Glencoe Pl	130	850	CC	Remove rebar hanging from wall cap.	HIGH	maint.	$200

WALL REPAIR PRIORITY & ESTIMATED FUNDING

Wall #	Street	Length	Area	Type	Comments	Priority	Fund	Estimate
337-312	Reading	162	400	OT	Repair wrecked stones; replace trench drain grates.	HIGH	maint.	$1,500
338-108O	Burnet Ave	143	500	MS	Remove replace fallen/broken blocks. Keystone	HIGH	maint.	$600
340-001	Clinton Springs Av	137	950	CC	Repair railing	HIGH	maint.	$1,200
367-006	Paddock Rd	361	1700	TC	Repair Toewalk/sidewalk (cracked, holed).	HIGH	maint.	$4,800
368-001	Dana Av	159	850	CC	delaminated toewalk, repair	HIGH	maint.	$6,000
368-016K	Reading Road	190	900	G2	Restack stone wall at S.	HIGH	maint.	$1,000
369-091	Blair	170	1600	CC	Clean up mud from sidewalk.Check Hillside	HIGH	maint.	$1,000
371-047	Riverside Dr	146	1200	G2	Reset GR, remove big tree from top of wall	HIGH	maint.	$2,400
371-060A	Columbia Pkwy	478	4700	CC	Patch wall cap at W.	HIGH	maint.	$5,000
372-007	Col. Pkwy	225	1350	G2	broken cap, mortar and patch	HIGH	maint.	$3,600
376-065	Duck Creek	81	350	TC	Patch 6' of wrecked wall.	HIGH	maint.	$3,000
409-032	Aspasia St	95	900	CC	Remove delam (2'x2') and patch	HIGH	maint.	$4,000
409-050	Col. Pkwy	460	5900	CC	deteriorated end, chip and patch	HIGH	maint.	$6,000
409-062	Colubia Pkwy	120	650	TD	Patch GM barrier where crumbling.	HIGH	maint.	$2,500
421-037E	Columbia Pkwy	480	5000	CT	Patch crumbling pilaster.	HIGH	maint.	$1,500
422-015	Lindell Ave	55	200	G2	Mortar top stone and end of wall	HIGH	maint.	$2,000
425-008	Brotherton Rd	195	300	TC	Patch wrecked E end(1 exp vert rebar).	HIGH	maint.	$2,500
469-011	Mears Ave	180	370	TC	Patch wall @ thru crack.	HIGH	maint.	$3,000
					42 WALLS	**HIGH**	**maint.**	**$121,800**
201-007	Anderson Ferry Road	84	425	CC	clean gutter on top of wall.	MED	maint.	$500
201-017B	River Road	412	6	CC	Deteriorated/Cracks, Chip and Patch wall and curb	MED	maint.	$6,000
201-014	River Road	144	1600	CC	Patch both ends of wall where map cracked.	MED	maint.	$1,000
201-024	Anderson Ferry Road	125	660	CC	clean gutter on top of wall.	MED	maint.	$1,000
250-009	First Avenue	50	300	G2	Replace 12' bent railing.	MED	maint.	$6,000
251-011A	Queen City	315	8200	TW	Repair fence/ clean out drain trench above.	MED	maint.	$600
251-011B	Queen City	315	4100	TW	Clean out trench above/ cut trees growing through fence.	MED	maint.	$2,400
251-021	Queen City	182	700	PM	Trim bushes on top affecting wall; replace missing stones/wall cap	MED	maint.	$1,200
251-022	Queen City	346	1700	PM	Replace loose or missing stones.	MED	maint.	$1,200
251-025	Queen City	44	250	PM	Replace loose, missing, or damaged stones.	MED	maint.	$1,200
251-026	Queen City	74	200	PM	Restack blocks at SE end.	MED	maint.	$1,200
251-030A	Queen City	360	1600	PM	Replace missing wall cap pieces; trim trees/bushes affecting wall.	MED	maint.	$1,200
281-010	Colerain Ave.	160	1400	PC	Investigate settlement @ S.	MED	maint.	$3,600
284-002A	Baltimore Av	433	4500	CC	patch holes	MED	maint.	$4,800
284-010A	McHenry Av	62	525	CC	patch holes	MED	maint.	$2,400
284-010B	McHenry Av	130	670	CC	chip and patch delaminations	MED	maint.	$3,600
285-016	Sutter Av	500	5400	MSE	replace stolen fence	MED	maint.	$6,000
285-040	Bickel Av	65	800	CC	patch holes	MED	maint.	$1,200
286-043C	Harrison Av	430	2700	G2	repair broken pilasters	MED	maint.	$6,000
286-049	Harrison Av	14	100	CC	patch holes	MED	maint.	$600
287-053	Ring Place	165	400	G5	chip and patch spalls/delaminations	MED	maint.	$6,000
288-095	Kingston Place	67	400	G5	patch cracks, chip and patch delamination	MED	maint.	$6,000
289-022	Elberon Avenue	210	1700	G2	Remove fallen stones @ S.	MED	maint.	$300
289-083B	Elberon Avenue	322	1700	G5	Replace damaged block(hole in wall). Realign blocks	MED	maint.	$5,000
289-096	Galvin Avenue	50	200	G2	Remove or rebuild wall.	MED	maint.	$6,000
292-032	Gest St.				Remove metal protruding into sidewalk from newest portion of wall.	MED	maint.	$2,000
293-049	Radcliff Dr	510	5100	MSE	remove rocks piling behind wall	MED	maint.	$6,000
294-043	Central Parkway	390	3400	G5	patch railing; patch lower wall; remove plants from railing.	MED	maint.	$6,000
295-027	Liddel St	99	400	CC	replace missing railing, repair wall cap	MED	maint.	$4,800
295-037	W. Northern Blvd.	316	3200	G2	repair and replace stone sections	MED	maint.	$18,000
326-001	Lafayette Av	269	2200	CC	patch delaminated area's	MED	maint.	$2,400
327-054B	Lafayette Av	362	1000	PC	repair 1 section of damaged wood guard railing.	MED	maint.	$1,200
327-054C	Lafayette Av	362	1000	PC	repair 1 section of damaged wood guard railing.	MED	maint.	$1,200
328-051	Bishop Street	25	200	G2	Replace fallen/missing cap stones.	MED	maint.	$700
329-131	Thill St	281	1900	G5	repair wall cap and patch wall	MED	maint.	$6,000
329-144A	Hukill Alley	150	11	G2	Repair Wall Section	MED	maint.	$5,000
329-146	Atlas Alley	53	150	CC	Remove and replace fence	MED	maint.	$4,000
330-032	Central Pkwy	49	300	G5	patch wall cap at fence posts	MED	maint.	$1,200
330-043	Clifton Av	50	300	CC	patch exposed rebar in railing.	MED	maint.	$600
330-053A.	Central Pkwy.	129	1550	G5	Patch wall & cap where needed.(first picture, all other pictures are just good graffiti)	MED	maint.	$40,000
330-071	Gage St	161	1300	CC	patch vertical joints where severly delaminated	MED	maint.	$3,000
330-072	Rice St	376	2800	CC	patch joint that is deteriorating.	MED	maint.	$3,000
330-073	Mulberry St	52	175	CC	patch cracks, delams.	MED	maint.	$2,400
330-078	Mulberry St	180	700	CC	patch wall cap at railing post popouts.	MED	maint.	$1,200
332-010	Third St	65	1350	G2	repair upper masonry pilaster railing wall cap	MED	maint.	$4,800
335-066	Carney St	83	330	CC	patch bad joint; patch big horizontal crack below wall cap	MED	maint.	$1,200
335-072	Carney St	289	2500	CC	patch railing & wall cap/curb	MED	maint.	$6,000
335-137	Martin Dr	190	2400	CC	patch exposed rebar	MED	maint.	$3,600
335-147	Adams Crossing	181	3200	G2	replace missing wall stones and cap stones	MED	maint.	$3,000
335-152	Celestial st steps	81	8	G2	repair top of wall	MED	maint.	$4,000
335-153	Col. Pkwy	320	3800	CC	patch exposed rebar in railing.	MED	maint.	$3,600
335-154A	Col. Pkwy	480	4200	CC	patch exposed rebar	MED	maint.	$3,600
335-154B	Col. Pkwy	425	3300	CC	patch exposed rebar	MED	maint.	$3,600
335-158	Col. Pkwy	175	3200	TC	patch steps, pilasters, and exposed rebar areas.	MED	maint.	$3,600
335-164A	Col. Pkwy	330	5000	CC	patch delaminated joint	MED	maint.	$3,600
335-164B	Col. Pkwy	420	12000	TC	patch delaminated joint	MED	maint.	$3,600
335-167	Col. Pkwy	65	1400	CC	patch exposed rebar	MED	maint.	$3,600
335-217	Baum Street	255	20	G1	stones loose, mortar in place	MED	maint.	$2,400
335-269	Bolivar Alley	40	250	G2	restack stone wall , replace missing stones	MED	maint.	$3,600
335-338	Hill St	92	200	G5	repair wall cap at railing posts.	MED	maint.	$1,200
336-021	Highland Av	356	1700	G2	replace bent railing opposite milton st.	MED	maint.	$3,600
336-066	Boal St	20	50	G5	patch deteriorated 90 degree angle in wall at steps.	MED	maint.	$1,200
336-078	Dorchester Av	50	500	CC	stabilize E corner of wall that is falling apart.	MED	maint.	$1,800
336-082	Dorchester Av	235	850	G2	replace missing horiz rail (1 piece); remortar	MED	maint.	$2,400
336-182	Main St	42	200	G2	patch wider cracks in gunite/wall	MED	maint.	$2,400
336-193	Sycamore St	177	1100	G2	repair N end of wall(taller part), where wall is sliding/slumping over.	MED	maint.	$4,800
336-267	Eden Park Dri	475	1900	G5	Replace cracked panels; tighten guardrail cables.	MED	maint.	$3,600
337-057K	Reading	190	900	G2	Repair 1 damaged block.	MED	maint.	$500
338-065	Hickory St	180	1400	CC	Resecure railing.	MED	maint.	$2,400
338-069	Hickory St	158	700	TC	Trench behind wall needs cleaning.	MED	maint.	$1,200

WALL REPAIR PRIORITY & ESTIMATED FUNDING

Wall #	Street	Length	Area	Type	Comments	Priority	Fund	Estimate
338-079	Alameda Pl	97	700	G5	Wall could use some patching of delaminated area's.	MED	maint.	$6,000
367-005	Paddock Rd	400	1800	TC	cracked, holed toewalk/sidewalk.	MED	maint.	$3,600
369-097	MLK Dr	488	3900	CC	Cut down tree growing in top of wall that is causing bulge/loose stones.	MED	maint.	$1,800
370-080	Victory Pky	109	700	G5	Resecure loose handrail; patch 10' section of wall cap.	MED	maint.	$1,800
371-101	Alpine Pl	84	2200	G1	Remove trees from wall	MED	maint.	$3,600
372-005	Bains St.	135	12	PM	Secure Railing/reset top block	MED	maint.	$5,000
375-054	Johnstone Pl	134	700	G2	Remortar loose stones @ S.	MED	maint.	$600
407-012	Gregson Pl	185	1500	CC	Patch exposed rebar, and joints.	MED	maint.	$3,600
409-064	Eastern Av	173	650	CC	Replace handrail where missing or loose/ patch sidewalk holes.	MED	maint.	$3,600
409-129	Kellogg Av	23	50	PM	Replace broken wall blocks.	MED	maint.	$1,200
410-001	Tennyson St	82	350	CC	Replace damaged handrail.	MED	maint.	$2,400
410-002	Tennyson St	111	400	CC	Replace damaged handrail.	MED	maint.	$1,200
421-045	Donham Av	75	600	G5	Repatch corner where cracked and broken.	MED	maint.	$2,400
422-011	Church Pl	500	9000	CC	patch exposed rebar	MED	maint.	$3,600
422-051	Col. Pkwy	380	6450	CC	patch joints{exposed rebar}.	MED	maint.	$6,000
422-064	Handman Ave	83	450	G2	Patch cracking wall cap.	MED	maint.	$2,000
423-005	Totten Av	138	1050	CC	Cut tree repair handrail.	MED	maint.	$3,600
425-016	Madison Rd	215	2700	CC	Patch delam @ E end of wall.	MED	maint.	$2,400
454-009	La Crosse Ave	45	170	TC	Replace cracked left panel.	MED	maint.	$3,000
450-007	Crestview Av	43	0	OT	Remove large, fallen tree from wall.	MED	maint.	$2,400
456-015	Heekin Av	513	5000	TC	Put railing over blocked off steps.	MED	maint.	$600
					91 WALLS	**MED**	**maint.**	**$323,000**
153-009	Gracely Drive	50	290	G5	chip and patch delaminations	LOW	maint.	$3,600
205-001	Glencrossing	300	3300	PM	Trim bushes growing through blocks.	LOW	maint.	$1,200
201-003B	Hillside Avenue	465	3000	PC	Patch exp rebar on delaminated pier.	LOW	maint.	$600
201-003D	Hillside Avenue	465	2400	PC	Portions of fence missing. Replace fence where missing.	LOW	maint.	$3,500
201-019	River Rd	227	1200	CC	chip and patch delaminations	LOW	maint.	$3,600
201-019	River Road	227	5	CC	Patch steps, sidewalk and curb	LOW	maint.	$960
239-008	Boudinot Av	200	180	CC	patch chipped sidewalk	LOW	maint.	$1,200
250-056	Mayfield Avenue	145	830	PM	Replace missing wall cap pieces., and other damaged blocks.Keystone	LOW	maint.	$5,000
251-020	Queen City	48	230	PM	Clear walk of broken blocks/ cut bushes affecting wall.	LOW	maint.	$600
252-021	Ruberg Avenue	49	3.7	G5	chip and patch wall cap	LOW	maint.	$600
281-002	Kirby Av	132	650	M	replace deteriorated wall	LOW	maint.	$6,000
282-016	Colerain Ave.	357	3000	PC	Patch broken wall cap @ fire hydrant.	LOW	maint.	$1,800
283-006	Cass Ave.	254	1200	CC	Patch wall cap @ wall where necessary.	LOW	maint.	$1,800
283-009	Cass Ave.	120	450	CC	Remove/repair loose gate.	LOW	maint.	$600
284-002B	Baltimore Avenue	433	12	CC	Deteriorated/Cracks, Chip and Patch	LOW	maint.	$1,200
284-010B	Mchenry Avenue	130	6	G5	Deteriorated/Cracks, Chip and Patch	LOW	maint.	$600
284-018	Westwood Northern Blvd.	277	1150	TC	Clean out trench behind wall.	LOW	maint.	$3,000
285-021B	Baltimore Avenue	365	7.8	G5	Deteriorated/Cracks, Chip and Patch	LOW	maint.	$960
285-031	Baltimore Av	240	4000	CC	patch holes	LOW	maint.	$120
286-043B	Harrison Ave.	663	4532	G2	Replace missing stones & mortar.	LOW	maint.	$900
286-111	Jonte	31	100	PM	Replace all wall cap blocks.	LOW	maint.	$4,800
286-122	Clara Ave.	28	50	G1	Rebuild stacked stone wall, esp @ midwall.	LOW	maint.	$6,000
286-154A	Fairmount Ave.	65	1162	CS	Clean trench above wall.	LOW	maint.	$3,600
286-193A	Queen city bypass	351	2800	PC	Clean out trench above wall/ erosion channel @ S.	LOW	maint.	$2,400
286-193B	Queen city bypass	368	4700	PC	Clean out trench above wall. Reseat conc. drain caps above.	LOW	maint.	$2,400
286-193C	Queen city bypass	432	7100	PC	Clean out trench above wall/investigate leakage onto walk.	LOW	maint.	$3,600
288-025A	Glenway Avenue	210	8.1	G5	Deteriorated/Cracks, Chip and Patch, Steps closed signage	LOW	maint.	$1,200
288-050	Glenway Avenue	35	11	G5	Deteriorated/Cracks, Chip and Patch	LOW	maint.	$600
288-055	Glenway Av	24	400	G5	chip and patch delaminations	LOW	maint.	$3,600
288-129A	Elberon Avenue	244	3200	CC	Repair 4' of destroyed wall cap.	LOW	maint.	$3,000
294-030A	Harrison Ave.	95	1317	G5	Clean out trench above wall.	LOW	maint.	$3,600
294-046	McMillan St	108	800	G5	patch full length vertical cracks	LOW	maint.	$3,600
294-063	Linden St.	267	3000	G5	Replace missing railing.	LOW	maint.	$2,400
294-085	Queen City Alley	25	2.3	G5	chip and patch wall cap	LOW	maint.	$600
295-029	Baltimore Avenue	633	10.5	PM	Clear and Gurb,	LOW	maint.	$1,200
295-102	Baltimore Avenue	155	4	PC	Clear and Gurb,	LOW	maint.	$600
298-057	Hamilton Ave.	103	400	PC	Grout rail posts recess to avoid moisture retention.	LOW	maint.	$1,200
298-095	Coppice Lane	201	6	PC	Fix wall cap	LOW	maint.	$600
299-001A	Hamilton Ave.	385	2900	G2	Replace/remortar loose and fallen top stones.	LOW	maint.	$1,200
299-009	Hamilton Avenue	586	3.5	PC	Sidewalk sunken	LOW	maint.	$3,000
299-010	Hamilton Avenue	100	1.5	CC	Sidewalk sunken	LOW	maint.	$600
299-014	Rockford Ave	205	2100	PC	Patch 4' of broken wall cap.	LOW	maint.	$2,400
299-015	Rockford Ave	215	2000	PC	Patch 4' of broken wall cap.	LOW	maint.	$2,400
300-007	Groesbeck Rd.	79	235	TC	Repair 2' section of loose wall.	LOW	maint.	$1,000
300-020	Hillcrest Ave.	132	2150	PC	Grout rail posts recess to avoid moisture retention.	LOW	maint.	$1,440
326-028	Clifton Avenue	115	1	PM	Deteriorated/Cracks, Chip and Patch	LOW	maint.	$600
329-059	Warner Street	87	5.5	G5	Deteriorated/Cracks, Chip and Patch	LOW	maint.	$600
329-081	Renner Place	144	4	G5	Deteriorated/Cracks, Chip and Patch	LOW	maint.	$600
329-132	Hukill Alley	30	1.5	CC	Deteriorated/Cracks, Chip and Patch	LOW	maint.	$1,800
330-025	Back St	258	800	G2	replace missing portion of wall cap.	LOW	maint.	$2,400
330-268	Winkler St	71	200	G2	remove tree growing through wall.	LOW	maint.	$2,400
331-002	Vine St	16	120	G5	recaulk joints	LOW	maint.	$600
331-003	Vine St	100	500	G5	recaulk joints	LOW	maint.	$600
331-026	Clark Street	133	300	CC	patch wall cap at gate post.	LOW	maint.	$600
331-053	Cutter St.	32	400	G4	Patch broken wall cap block.	LOW	maint.	$500
332-008	Third St	292	2300	CC	reset railing; patch wall cap.	LOW	maint.	$2,400
332-038	Central Ave	132	1000	CC	Trim plants from railing.	LOW	maint.	$1,500
335-020	Butler St	212	800	CC	patch pop out in wall cap	LOW	maint.	$600
335-056	Jerome St	100	800	G5	patch crack at joint in wall	LOW	maint.	$600
335-118	Baum St	78	600	CC	replace bent railing	LOW	maint.	$240
335-121	Oregon St	234	2400	CC	patch railing where rebar is exposed	LOW	maint.	$600
335-124B .	Wareham Dr.	552	6800	G5	Remove overtopping earth @ midwall.	LOW	maint.	$1,000
335-125	Wareham Dr	187	2900	CC	delaminated cap, Development to Repair	LOW	maint.	$0
335-129	Louden St	306	2300	G2	Remove fallen tree trunk from top of wall.	LOW	maint.	$600
335-136	Martin Dr	302	4200	TC	patch spall w exposed rebar	LOW	maint.	$1,800
335-165	Celestial St	41	550	G2	cracked corner, rebuild	LOW	maint.	$6,000
335-220B	Oregon St	14	50	PM	restack wall, add missing blocks.	LOW	maint.	$1,200

WALL REPAIR PRIORITY & ESTIMATED FUNDING

Wall #	Street	Length	Area	Type	Comments	Priority	Fund	Estimate
335-353	Riverside Drive	20	0	G5	Replace missing bolt fasteners to decorative wall cladding. PARK	LOW	maint.	$500
335-354	Riverside Drive	20	0	G5	Replace missing bolt fasteners to decorative wall cladding. PARK	LOW	maint.	$500
336-002	Bunker Alley	32	175	CC	replace railing	LOW	maint.	$1,800
336-067	Boal St	42	275	CC	patch over exposed rebar.	LOW	maint.	$600
336-142	Ringgold St	60	80	G5	patch spall/delaminated area(1); patch void/hole in side of curbwall	LOW	maint.	$600
336-176	Audrey Terrace	64	8.3	G2	Mortar loose stone	LOW	maint.	$3,000
336-195	Mulberry St	31	80	G5	patch exposed rebar at corner	LOW	maint.	$600
336-238	Reading Rd	468	1050	TC	unclog weep holes, patch corner	LOW	maint.	$1,200
336-257	Dorsey St	475	5000	PC	repair top tube rail where seperation has occurred.	LOW	maint.	$1,200
336-304	Main St	31	60	CC	patch 2 areas of spalled concrete at bottom of fence post	LOW	maint.	$600
336-345	Mulberry St	25	75	G3	remove shrub growing in wall, fill gap with stone	LOW	maint.	$600
336-376	Cogswell Alley	75	0	G2	Reset bulge in wall.	LOW	maint.	$1,200
337-192	McGregor Av	100	500	CC	crumbled foundation/ abandon, regrade if necessary	LOW	maint.	$3,600
337-214	Wellington Pl	58	450	G2	replace 1 missing stone, regrout 1 loose stone.	LOW	maint.	$120
337-281	Van St	72	200	TC	Grout railing post	LOW	maint.	$120
338-102	MLK Dr	226	1100	CC	repair/replace bent railing section	LOW	maint.	$1,200
339-065	Forest Av	84	100	CC	tilted panel, replace w/ curb wall	LOW	maint.	$12,000
339-077	Forest Av	187	950	G2	replace missing stone	LOW	maint.	$6,000
339-088	Forest Av	397	1700	CC	broken toewalk, repair	LOW	maint.	$6,000
368-029	Mitchell Av	38	10	G2	loose stones need remortaring/restacking.	LOW	maint.	$2,400
371-022	St Paul Dr	310	75	G2	Repair 10' of loose top course toward E end.	LOW	maint.	$600
371-049	Riverside Dr	505	900	TC	Remove metal edge from curb.	LOW	maint.	$600
375-060	Elmhurst Avenue	56	12	G2	Deteriorated/Cracks, Chip and Patch	LOW	maint.	$600
375-112	Wold Av	54	150	G2	Re mortar loose stones.	LOW	maint.	$600
375-143	Grandin Rd	135	0	G5	Patch wall cap where crushed. 2 locations	LOW	maint.	$1,200
376-016	Duck Creek Rd	90	200	CC	Close 1' gap in wall	LOW	maint.	$1,200
376-020	Duck Creek Road	35	1	TC	Steps Deteriorated/Cracks, Chip and Patch, Replace Handrail	LOW	maint.	$600
376-066	Duck Creek Road	108	1.6	TC	Wall Hit remove section and replace	LOW	maint.	$1,200
381-003	Losantiville Av	226	1600	CC	Prevent backfill (pebbles) from coming out of weep holes @ E.	LOW	maint.	$600
409-037	Walworth Av	385	5700	CC	Patch 2 holes in wall.	LOW	maint.	$3,600
409-071	Salem Road	86	8	G3	Chip and Patch Wall	LOW	maint.	$960
422-053	Col. Pkwy	490	3200	G2	Remortar loose stones.	LOW	maint.	$1,200
					99 WALLS	**LOW**	**maint.**	**$178,920**

Total Capital & Maintenance Costs **$5,177,200**

WALL REPAIR PRIORITY AND ESTIMATED FUNDING SUMMARY

Capital Cost

High Priority (5 walls)	$460,000
Medium Priortiy (19 walls)	$1,132,600
Low Priority (33 walls)	$2,960,880
TOTAL (57 walls)	$4,553,480

Maintenance Costs

High Priority (42 walls)	$121,800
Medium Priortiy (91 walls)	$323,000
Low Priority (99 walls)	$178,920
TOTAL (232 walls)	$623,720

WALL TYPE KEY

CC	Cantilever, Concrete		
CM	Ccrib, Metal	LT	Landscaping Timber
CP	Crib, Pre-Cast Concrete	MS	Mechanically Stabilized
CT	Crib, Tiedback	OT	Other, See Comments
CW	Crib, Wood Timbers	PC	Pier, Cantilever
FW	Floodwall	PM	Precast Modular
G1	Gravity, Dry Stone	PT	Pier, Tiedback
G2	Gravity, Mortared Stone	RB	Rock Fall Barrier
G3	Gravity, Block	RE	Reinforced Earth
G4	Gravity, Brice	SE	Slope Easement
G5	Gravity, Concrete	ST	Settlement
GB	Gabion	TC	Toe, Concrete
HC	H-Pile, Cantilever	TD	Turned Down
HT	H-Pile, Tiedback	TW	Tee-Wall

WALL STABILIZATION & LANDSLIDE CORRECTION
SIX-YEAR PLAN 2024-2029

Carry over date 10/03/2025

Carry-Over City Capital Funds	City Capital Funds	Projects by Calendar Year Contract Awarded	Estimated Total Project Cost	Outside Funding Source	Outside Funding Percent	Local Funding Percent	Outside Funding Secured	Outside Funding Amount	Local Funding Amount	Estimated Remaining Funds	NOTES
$1,057,726	$790,000	**2025 Calendar Year**									
		Wall Inspection & Program Management	$229,806		0%	100%			$ 229,806		
		Project Design & Management	$229,806		0%	100%			$ 229,806		
		TROD and Contract Work	$100,000		0%	100%			$ 100,000		
		West Fork Road Pier Wall Extension	$661,198	OPWC - Emergency	90%	10%	$ 535,120		$ 126,078		
		Col. Pkwy - South of Beechmont / Riverside at Rookwood	$2,626,933	PROTECT / OPWC-SCI	80% +80%	13%	$ 2,321,546		$ 305,387		
		Sycamore Street Retaining Wall	$186,143	PROTECT	80%	20%	$ 148,914		$ 37,229		
		Harrison Avenue Landslides Everglade to Tremont	$400,864	MTIF	100%	0%	$ 400,864		$ -		
2025 Calendar Year		**Total Program and Project Expenses**	**$4,434,751**				**$ 3,406,445**	**$ -**	**$ 1,028,306**	**$819,420**	
$819,420	$858,000	**2026 Calendar Year**									
		Wall Inspection & Program Management	$236,700		0%	100%			$ 236,700		
		Project Design & Management	$236,700		0%	100%			$ 236,700		
		TROD and Contract Work	$100,000		0%	100%			$ 100,000		
		Eleanor Pl. at Gage Street Steps / Coy Street Landslide	$1,148,421	PROTECT	80%	20%	$ 918,737		$ 229,684		
		Hillside Avenue Landslides	$2,677,286	PROTECT	80%	20%	$ 2,141,829		$ 535,457		
2026 Calendar Year		**Total Program and Project Expenses**	**$4,399,108**				**$ 3,060,566**	**$ -**	**$ 1,338,542**	**$338,878**	
$338,878	$904,000	**2027 Calendar Year**									
		Wall Inspection & Program Management	$243,801		0%	100%			$ 243,801		
		Project Design & Management	$243,801		0%	100%			$ 243,801		
		TROD and Contract Work	$100,000		0%	100%			$ 100,000		
		Faraday Road Landslide	$1,797,827	PROTECT	80%	20%	$ 1,438,262		$ 359,565		
		Riverside Drive Wall at Friendship Park	$2,183,416	PROTECT	80%	20%	$ 1,746,733		$ 436,683		
		River Road Landslide east of Southside	$1,512,365	PROTECT	80%	20%	$ 1,209,892		$ 302,473		
2027 Calendar Year		**Total Program and Project Expenses**	**$6,081,211**				**$ 4,394,886**	**$ -**	**$ 1,686,324**	**($443,446)**	
($443,446)	$900,000	**2028 Calendar Year**									
		Wall Inspection & Program Management	$251,115		0%	100%			$ 251,115		
		Project Design & Management	$251,115		0%	100%			$ 251,115		
		TROD and Contract Work	$100,000		0%	100%			$ 100,000		
		Eucleden Alley Wall Replacement	$234,000								
2028 Calendar Year		**Total Program and Project Expenses**	**$836,231**				**$ -**	**$ -**	**$ 602,231**	**($145,677)**	
($145,677)	$900,000	**2029 Calendar Year**									
		Wall Inspection & Program Management	$251,115		0%	100%			$ 251,115		
		Project Design & Management	$251,115		0%	100%			$ 251,115		
		TROD and Contract Work	$100,000		0%	100%			$ 100,000		
		Highland Avenue Landslide	$1,665,000	TBD	80%	20%		$ 1,332,000	$ 333,000		
		Glenway Avenue Landslide	$1,665,000	TBD	80%	20%		$ 1,200,000	$ 465,000		
2029 Calendar Year		**Total Program and Project Expenses**	**$3,932,231**				**$ -**	**$ 2,532,000**	**$ 1,400,231**	**($645,908)**	
($645,908)	$900,000	**2030 Calendar Year**									
		Wall Inspection & Program Management	$251,115		0%	100%			$ 251,115		
		Project Design & Management	$251,115		0%	100%			$ 251,115		
		TROD and Contract Work	$100,000		0%	100%			$ 100,000		
2030 Calendar Year		**Total Program and Project Expenses**	**$602,231**				**$ -**	**$ -**	**$ 602,231**	**($348,138)**	

Secured Outside Funding:	$ 10,861,897		
Additional Required Outside Funding to Make Projects Viable:		$ 2,532,000	
Anticipated Local Funding Required:			$ 6,657,865
Local Funding Available or in Budget Projections:			$ 6,309,726
Local Funding Unsecured:			$ (348,138)

SECTION 4

2025 Retaining Wall Inspection Summaries

TOTAL AVERAGES OF WALLS INSPECTED IN 2025 CYCLE

2025 INSPECTION CYCLE

Maintenance	Wall Count	Total Length (Lin. Ft.)	Total Exposed Area (Sq. Ft.)	Avg. Structural	Avg. Drainage	Ave. Cosmetic	Avg. Misc.	Avg. Overall
Agreement	4	421.00	1,650.00	0.98	0.75	1.13	2.63	1.15
Dept. of Neighborhood Services	1	15.00	50.00	0.08	1.33	1.50	1.00	1.28
Health Department	2	260.00	750.00	0.19	0.33	1.00	0.29	0.31
MSD	4	602.00	8,420.00	0.20	0.00	0.96	0.50	0.31
Park Board	5	1,719.00	12,600.00	0.38	0.50	1.13	0.45	0.50
Transportation & Engineering Dept.	274	48,629.00	345,788.00	0.43	0.59	1.01	0.93	0.61
2025 TOTALS:	**290**	**51,646**	**369,258**	**0.38**	**0.58**	**1.12**	**0.97**	**0.70**
		9.78 Miles						

Neighborhoods Inspected:
- Lower Price Hill
- East Price Hill
- West Price Hill
- Sedamsville
- Riverside

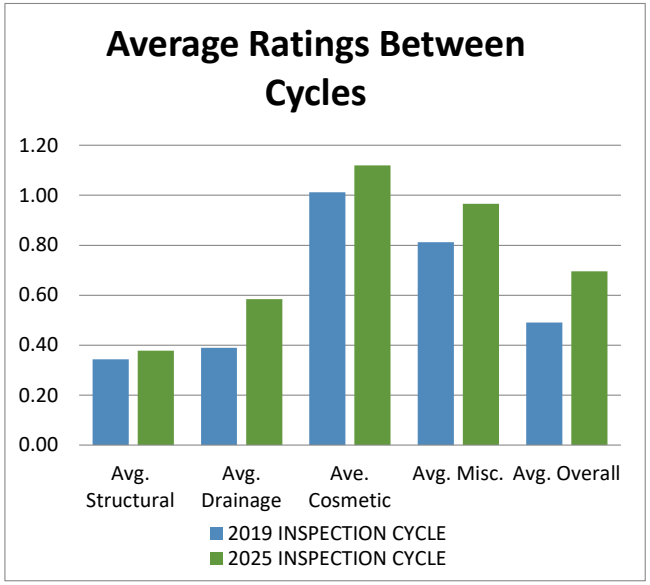
2019 INSPECTION CYCLE

Maintenance	Wall Count	Total Length (Lin. Ft.)	Total Exposed Area (Sq. Ft.)	Avg. Structural	Avg. Drainage	Ave. Cosmetic	Avg. Misc.	Avg. Overall
Agreement	4	421.00	1,650.00	0.94	0.75	1.13	2.54	1.16
Dept. of Neighborhood Services	1	15.00	50.00	0.08	0.00	0.50	0.00	0.11
Health Department	2	260.00	750.00	0.14	0.33	1.50	0.29	0.34
MSD	5	615.00	8,485.00	0.19	0.20	0.73	0.40	0.29
Park Board	5	1,719.00	12,600.00	0.36	0.67	1.20	0.83	0.55
ODOT	1	108.00	750.00	3.09	3.00	2.00	4.00	3.06
Transportation & Engineering Dept.	259	45,169.00	324,263.00	0.47	0.63	1.02	1.03	0.66
2019 TOTALS:	**277**	**48,307**	**348,548**	**0.34**	**0.39**	**1.01**	**0.81**	**0.49**
		9.15 Miles						

TOTAL AVERAGES OF WALLS INSPECTED IN 2025 CYCLE

	Transportation & Engineering Owned Walls			
	0-1	1-2	2-3	3-4
Avg. Structural	257	16	1	0
Avg. Structural	*238*	*18*	*3*	*0*
Avg. Drainage	230	39	5	0
Avg. Drainage	*213*	*38*	*7*	*1*
Avg. Cosmetic	195	71	8	0
Avg. Cosmetic	*176*	*76*	*7*	*0*
Avg. Misc.	173	91	9	1
Avg. Misc.	*152*	*90*	*16*	*1*
Avg. Overall	244	30	0	0
Avg. Overall	*215*	*42*	*2*	*0*

2019 Averages are Italicized



Transportation and Engineering Maintained Walls - Changes from 2019 to 2025

Wall No	Community	Street	Wall Height	Wall Length	Wall Type	Avg Struct '19	Avg Struct '25
114-003	Sayler Park	Gracely Drive	6.5	35	Toe, Concrete	0.27	0.18
114-004	Sayler Park	Gracely Drive	6.5	50	Toe, Concrete	0.36	0.27
115-007	Sayler Park	River Road	2	332	Toe, Concrete	0.73	0.64
115-010A	Sayler Park	River Road	6	451	Toe, Concrete	0.55	0.45
115-027	Sayler Park	Monitor Avenue	2.8	44	Precast Modular	0.00	0.10
115-042	Sayler Park	Mackenzie Avenue	3	62	Gravity, Concrete	1.27	1.09
116-007	Sayler Park	Overcliff Road	3.4	324	Precast Modular	0.10	0.00
116-009	Sayler Park	Gracely Drive	2	55	Precast Modular	0.10	0.30
153-002	Sayler Park	River Road	5.7	162	Toe, Concrete	0.73	0.40
153-004	Sayler Park	River Road	6	231	Toe, Concrete	0.45	0.36
157-001	Riverside	River Road	2.2	61	Toe, Concrete	0.64	0.45
157-003A	Riverside	River Road	4	400	Cantilever, Concrete	1.00	0.90
157-003C	Riverside	River Road	4.5	440	Cantilever, Concrete	0.55	0.64
198-003A	Riverside	River Road	2.1	77	Toe, Concrete	0.30	0.36
198-003B	Riverside	River Road	2.1	10	Toe, Concrete	0.22	0.20
198-004	Riverside	River Road	1.6	36	Toe, Concrete	0.70	0.73
198-005	Riverside	River Road	1.9	44	Toe, Concrete	0.20	0.27
198-007A	Riverside	River Road	8	505	Cantilever, Concrete	0.60	0.55
198-007B	Riverside	River Road	10	500	Cantilever, Concrete	0.83	0.73
198-010	Riverside	Allenham Street	3.4	69	Precast Modular	0.00	0.10
201-003B	Riverside	Hillside Avenue	12	465	Pier, Cantilever	0.36	0.18
201-003D	Riverside	Hillside Avenue	5	465	Pier, Cantilever	0.18	0.09
201-006	Riverside	Anderson Ferry Road	2.8	73	Cantilever, Concrete	0.45	0.55
201-012A	Riverside	Anderson Ferry Road	3.1	162	Toe, Concrete	0.27	0.25
201-017A	Riverside	River Road	4.5	390	Cantilever, Concrete	0.82	0.91
201-017B	Riverside	River Road	6.4	412	Cantilever, Concrete	1.08	1.09
201-017C	Riverside	River Road	6.4	390	Cantilever, Concrete	0.73	0.82
240-015	West Price Hill	Glenway Avenue	2.5	80	Toe, Concrete	0.36	0.20
241-001	West Price Hill	Tuxworth Avenue	4	77	Gravity, Concrete	0.73	0.58
242-002	West Price Hill	Pedretti Avenue	10.1	118	Cantilever, Concrete	0.82	0.22
244-002	Riverside	River Road	7.8	112	Cantilever, Concrete	0.73	0.64
244-003	Riverside	River Road	4	52	Cantilever, Concrete	0.18	0.09
244-004	Riverside	River Road	3.6	114	Cantilever, Concrete	0.64	0.73
244-006A	Riverside	Hillside Avenue	3	55	Gravity, Mortared Stone	2.10	1.70
244-015	Riverside	River Road	6.5	127	Gravity, Concrete	0.36	0.27
244-042	Riverside	Hillside Avenue	5	427	Pier, Cantilever	0.09	0.18
244-066	Riverside	Bowditch Street Steps	2	15	Gravity, Mortared Stone	0.11	0.20
244-073	Riverside	Bowditch Street Steps	3	8	Gravity, Mortared Stone	0.70	0.40
247-021	Riverside	Leland Avenue	5	20	Gravity, Mortared Stone	0.50	0.11
248-011A	East Price Hill	Dehli Avenue	4	198	Toe, Concrete	0.27	0.45
249-015	East Price Hill	Enright Avenue	3	305	Precast Modular	0.09	0.18
249-037	East Price Hill	Enright Avenue	2.5	90	Precast Modular	0.09	0.27
250-009	West Price Hill	First Avenue	3.7	50	Gravity, Mortared Stone	0.50	0.40
250-027	West Price Hill	Rosemont Avenue	4.6	90	Gravity, Concrete	0.73	0.56
250-039	West Price Hill	Sunset Avenue	8	161	Cantilever, Concrete	0.36	0.45

Transportation and Engineering Maintained Walls - Changes from 2019 to 2025

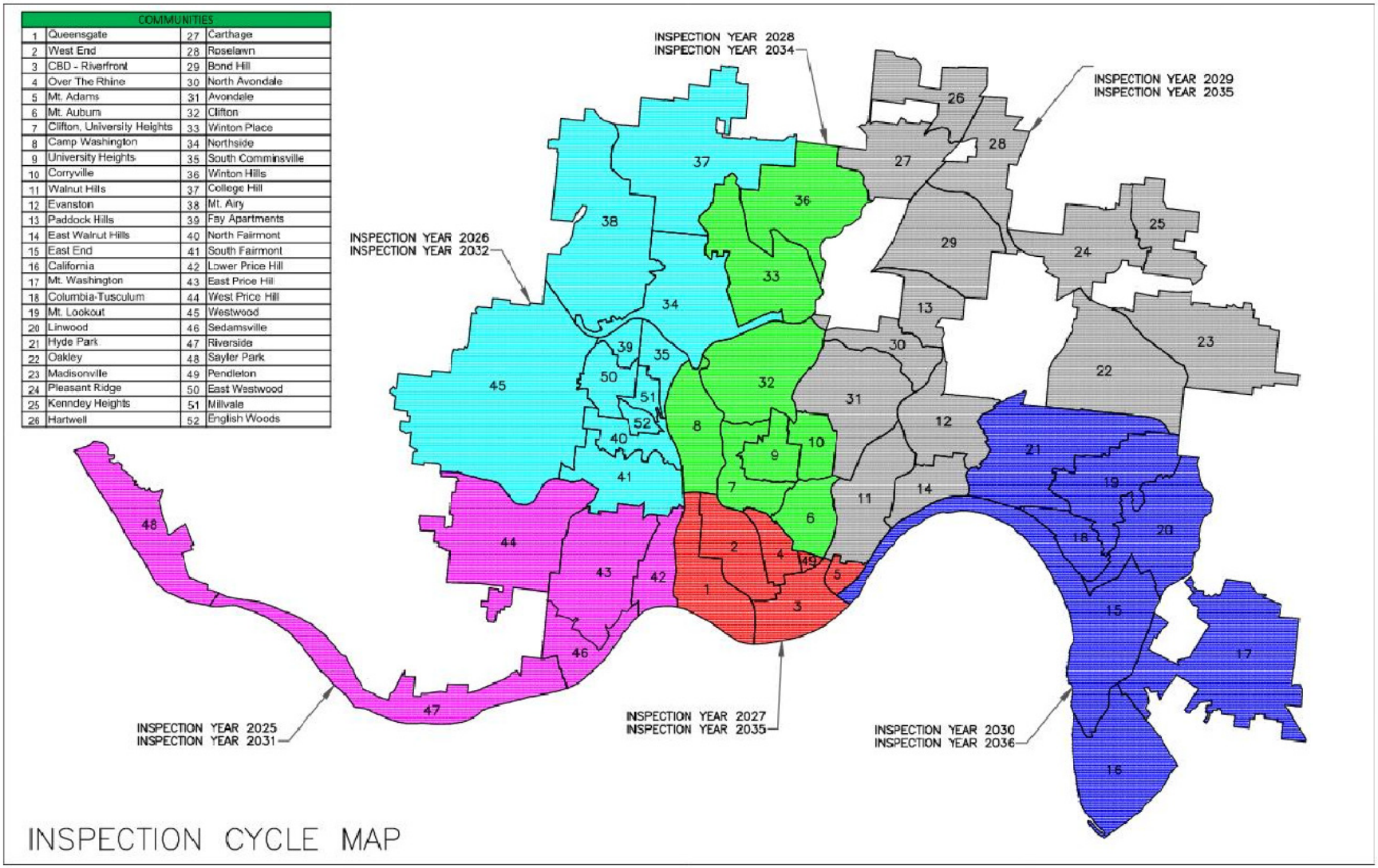
Wall No	Community	Street	Wall Height	Wall Length	Wall Type	Avg Struct '19	Avg Struct '25
250-056	East Price Hill	Mayfield Avenue	5.3	145	Precast Modular	0.40	0.30
250-058	East Price Hill	Quebec Avenue	12.3	303	Cantilever, Concrete	0.73	0.60
250-063	West Price Hill	Liberty Street, West	2.2	57	Toe, Concrete	0.64	0.27
250-074	East Price Hill	Quebec Avenue	4	34	Gravity, Mortared Stone	0.50	0.33
251-006	West Price Hill	Wegman Avenue	2.9	109	Toe, Concrete	0.36	0.27
251-043	West Price Hill	Wyoming Avenue	5.5	167	Precast Modular	0.10	0.30
251-044	West Price Hill	Wyoming Avenue	3.5	116	Precast Modular	0.20	0.30
251-045	West Price Hill	Wyoming Avenue	3.6	130	Precast Modular	0.10	0.00
251-046	West Price Hill	Wyoming Avenue	2.2	42	Precast Modular	0.00	0.10
251-055	Westwood	Ridgetop Way	16.5	570	Precast Modular	0.10	0.00
286-122	South Fairmont	Clara Street	3	28	Gravity, Dry Stone	1.40	1.30
286-193A	South Fairmont	Queen City By-Pass	5.6	351	Pier, Cantilever	0.18	0.09
287-005	Lower Price Hill	Lockwood Avenue	11.5	70	Gravity, Mortared Stone	1.90	1.30
287-014	East Price Hill	Mickey Avenue	4.9	122	Toe, Concrete	0.45	0.55
287-023	East Price Hill	Grand Avenue	4.5	105	Toe, Concrete	0.18	0.09
287-055	East Price Hill	Lehman Road	2.8	39	Precast Modular	0.00	0.20
287-066	East Price Hill	Purcell Avenue	6	35	Gravity, Mortared Stone	0.30	0.40
288-017	Lower Price Hill	Warsaw Avenue	2.5	71	Cantilever, Concrete	0.36	0.55
288-020B	East Price Hill	Warsaw Avenue	8.6	273	Cantilever, Concrete	0.25	0.33
288-021	Lower Price Hill	Warsaw Avenue	6	80	Cantilever, Concrete	0.64	0.73
288-022	Lower Price Hill	Wilder Avenue	23.5	436	Gravity, Concrete	1.27	1.09
288-023	East Price Hill	Wilder Avenue	6.2	54	Gravity, Concrete	0.40	0.60
288-025B	Lower Price Hill	Glenway Avenue	8.3	350	Gravity, Concrete	0.55	0.50
288-039	Lower Price Hill	Wilder Avenue	9.4	249	Gravity, Concrete	0.90	0.20
288-050	East Price Hill	Glenway Avenue	11	35	Gravity, Concrete	0.60	0.50
288-051	East Price Hill	Glenway Avenue	11.9	75	Gravity, Mortared Stone	0.55	0.58
288-062	East Price Hill	Woodlawn Avenue	4.4	36	Gravity, Concrete	0.64	0.70
288-096	East Price Hill	Fairbanks Avenue	8	65	Cantilever, Concrete	0.00	0.09
288-107A	East Price Hill	Maryland Avenue	7.3	378	Gravity, Dry Stone	2.11	2.13
288-136	East Price Hill	Morrow Place	3.1	25	Precast Modular	0.30	0.13
288-139	Lower Price Hill	Warsaw Avenue	10	66	Cantilever, Concrete	0.18	0.27
288-140	Lower Price Hill	Warsaw Avenue	17	130	Pier, Tiedback	0.09	0.22
288-142	East Price Hill	Maryland Avenue	6.5	75	Gravity, Concrete	0.40	0.50
288-143B	East Price Hill	Maryland Avenue	11.5	272	Mechanically Stabilized	0.30	0.10
288-147	East Price Hill	Woodlawn Avenue	3.5	13	Gravity, Concrete	0.50	0.80
288-151	Lower Price Hill	St Michael Street	5	50	Gravity, Mortared Stone	0.70	0.20
288-183	Lower Price Hill	State Avenue	22.5	547	Pier, Tiedback	0.33	0.25
289-011	Lower Price Hill	River Road	9.5	320	Mechanically Stabilized	0.27	0.20
289-018A	Sedamsville	River Road	6.5	214	Gravity, Mortared Stone	0.64	0.73
289-018B	Sedamsville	River Road	9	360	Gravity, Mortared Stone	0.64	0.73
289-019	Sedamsville	River Road	14	206	Pier, Cantilever	0.00	0.09
289-022	East Price Hill	Elberon Avenue	8.8	210	Gravity, Mortared Stone	1.27	1.45
289-027A	Lower Price Hill	Elberon Avenue	4.8	460	Pier, Cantilever	0.55	0.45
289-027B	Lower Price Hill	Elberon Avenue	7.4	400	Pier, Cantilever	0.18	0.27
289-038	East Price Hill	Elberon Avenue	3.5	52	Cantilever, Concrete	0.45	0.55

Transportation and Engineering Maintained Walls - Changes from 2019 to 2025

Wall No	Community	Street	Wall Height	Wall Length	Wall Type	Avg Struct '19	Avg Struct '25
289-083A	East Price Hill	Elberon Avenue	5.5	363	Gravity, Concrete	0.27	0.45
289-100	East Price Hill	Pica Street Steps	1.3	33	Gravity, Concrete	0.55	0.45
289-101	East Price Hill	Pica Street Steps	1.3	33	Gravity, Concrete	0.55	0.30
293-004	Lower Price Hill	State Avenue	6.4	370	Gravity, Concrete	0.55	0.64
293-019	Lower Price Hill	Liberty Street, West	5.9	11	Toe, Concrete	0.20	0.80
293-034	South Fairmont	Ernst Street	2.4	20	Gravity, Concrete	1.00	0.10
293-049	South Fairmont	Radcliff Drive	4.9	510	Gravity, Dry Stone	0.00	0.30
293-058	Lower Price Hill	Fitzpatrick Street	1	50	Gravity, Mortared Stone	0.90	1.20

SECTION 5

Inspection District Map


COMMUNITIES
1 Queensgate
2 West End
3 CBD - Riverfront
4 Over The Rhine
5 Mt. Adams
6 Mt. Auburn
7 Clifton, University Heights
8 Camp Washington
9 University Heights
10 Corryville
11 Walnut Hills
12 Evanston
13 Paddock Hills
14 East Walnut Hills
15 East End
16 California
17 Mt. Washington
18 Columbia-Tusculum
19 Mt. Lookout
20 Linwood
21 Hyde Park
22 Oakley
23 Madisonville
24 Pleasant Ridge
25 Kennedy Heights
26 Hartwell
27 Carthage
28 Roselawn
29 Bond Hill
30 North Avondale
31 Avondale
32 Clifton
33 Winton Place
34 Northside
35 South Comminsville
36 Winton Hills
37 College Hill
38 Mt. Airy
39 Fay Apartments
40 North Fairmont
41 South Fairmont
42 Lower Price Hill
43 East Price Hill
44 West Price Hill
45 Westwood
46 Sedamsville
47 Riverside
48 Sayler Park
49 Pendleton
50 East Westwood
51 Millvale
52 English Woods
INSPECTION YEAR 2028
INSPECTION YEAR 2034
INSPECTION YEAR 2029
INSPECTION YEAR 2035
INSPECTION YEAR 2026
INSPECTION YEAR 2032
INSPECTION YEAR 2025
INSPECTION YEAR 2031
INSPECTION YEAR 2027
INSPECTION YEAR 2033
INSPECTION YEAR 2030
INSPECTION YEAR 2036
INSPECTION CYCLE MAP

SECTION 6

Retaining Wall Inspection Form

RETAINING WALL INSPECTIONS

city of CINCINNATI
TRANSPORTATION & ENGINEERING

	Wall Number:	330-145	
	Street:	Zier Place	
	DIVISION		
	Structure	**RATING**	**COMMENTS**
1	Cracking----------	0	
2	Bulging----------	0	
3	Sliding----------	0	
4	Tilt----------	0	
5	Settlement----------	0	
6	Delamination----------	NA	Stone
7	Joints----------	NA	
8	Wall Cap----------	3	Mostly Gone
9	Stone/Block----------	1	
10	Footing----------	0	Unable to Inspect
11	Landslide Damage-------	0	
12	Tree Damage----------	0	
		0.40	Average Structural Condition
	Drainage		
13	Backdrains----------	NA	
14	Weep Holes----------	NA	
15	Ditch Behind Wall---------	NA	
16	Erosion----------	1	
17	Leakage----------	1	
		1.00	Average Drainage Condition
	Cosmetic		
18	Discoloration----------	2	
19	Graffiti----------	0	
20	Gunite----------	NA	
21	Paint/Miracoat----------	NA	
		1.00	Average Cosmetic Condition
	Miscellaneous		
22	Brush/Undergrowth--------	2	On Top
23	Railing/Fence----------	NA	
24	Curb----------	NA	
25	Sidewalk/Roadway--------	NA	
26	Steps----------	NA	Closed
		2.00	Average Miscellaneous Condition
	General Condition		
27	Overall Wall Rating	0.67	

	Community No.:	4	Community:	Over the Rhine	
	Inspected By:	PAM		Inspection Date:	
	Last Overall Wall Rating:	0.67		Change in Rating:	0.00
	Last Inspection Date:	12/14/1998		("+" = getting better / "-" = getting worse)	

Retaining Wall Inspection Form (Excel) 2/1/2013

RETAINING WALL INSPECTION FORM

The technician/inspector uses this form in the field to write down inspection data. A form is filled out for each wall that is inspected. As of 01/01/2011 only DOTE and other City department walls are inspected on an annual basis. Inspect walls that have Maintenance Code letters B, D, F, G, H, M, R, S, T, & W. At the top of the form, the technician/inspector fills out data that pertains to the community number that the wall is located in, the retaining wall number, the street the wall is located on, who inspected the wall and the date the wall was inspected.

The rest of the retaining wall inventory form is divided into five divisions and these are: Structural, Drainage, Cosmetic, Miscellaneous and General Condition. The Structural, Drainage, Cosmetic and Miscellaneous Divisions have various categories and each category is assigned a sequential number. There are 25 categories in all. Each category is rated from 0 to 4 and the rating system is shown below.

0 = No Problems
1 = Minor Problems
2 = Moderate Problems
3 = Severe Problems
4 = Critical Problems
NA = Category Not Graded (Because It Is Non-Applicable)

Each division has three columns, one for category, one for rating and one for comments. The technician/inspector carefully examines the wall for each category, rates the category by consulting the attached guide and enters pertinent comments that relate to the category.

Each division has an average rating box at the bottom of the rating column. The average rating is the sum of all the ratings in that division. An NA rating is not included in the average rating. An example is shown below.

COSMETIC DIVISION

CATEGORY	RATING	COMMENTS
18. DISCOLORATION……	2	rust from fence
19. GRAFFITI……	3	patches from graffiti cover-up
20. GUNITE……..	NA	there is no gunite
21. PAINT/MIRACOAT……	1	private paint job
TOTAL SUM OF CATERGORIES	6	

Sum of Ratings (6) divided by (Number of Categories (3) = 2.0 Average Rating.

The General Condition Division has one line to list the overall wall rating. This is sum of all rated categories divided by the number of rated categories. Do not include NA categories. The computer inspection form includes a large Additional Comment box. Use this comment box to input information about repairs required including measurements and amounts.

STRUCTURAL DIVISION

The Structural Division is the most important because the categories impact the stability of the wall. The inspector should carefully inspect these categories, especially cracking, bulging, sliding, tilt, settlement and delaminations. Severe or critical problems in these categories should be addressed ASAP. Technician should maintain a spreadsheet of walls with severe and critical problems to coordinate maintenance with engineers, Public Service Department and contractors.

1. CRACKING
   0 = None
   1 = Minor; hairline
   2 = Moderate; partial penetration, width < 1/8”
   3 = Severe; deep cracks, width 1/8” or more, exposed rebar
   4. = Critical: full or partial wall failure

   Suggested Comments: numbers, locations, sizes, direction, causes and previous repairs

2. BULGING
   0 = None
   1 = Minor; pushed out 3” or less
   2 = Moderate; pushed out 3” to -6”
   3 = Severe; pushed out more than 6”
   4 = Critical; wall failure due to collapsed bulge

   Suggested Comments: numbers, locations, pushed out measurements, settlement above bulge, causes and previous repairs

3. SLIDING
   0 = None
   1 = Minor; offset 3” or less at joint
   2 = Moderate; offset 3” to -6” at joint
   3 = Severe; offset more than 6” at joint
   4 = Critical; wall failure due to sliding

   Suggested Comments: number, locations, offset measurements, damage to property supported by wall, causes and previous repairs

4. TILT
   0 = None
   1 = Minor; less than 1” per foot
   2 = Moderate; 1” to 2” per foot
   3 = Severe; more than 2” per foot
   4 = Critical; wall failure due to tilting

   Suggested Comments; numbers, location, tilt measurements, damage to property supported by wall, causes and previous repairs

5. SETTLEMENT
   0 = None
   1 = Minor; less than 3”
   2 = Moderate; 3”+ to 6”
   3 = Severe; more than 6”
   4 = Critical; wall failure due to settlement

   Suggested Comments: numbers, locations, measurements, causes and previous repairs

6. DELAMINATIONS
   0 = None
   1 = Light; sporadic small areas
   2 = Moderate; sporadic medium areas
   3 = Severe; exposed rebar
   4 = Critical; wall failure due to delaminations

   Suggested Comments: numbers, locations, sizes, causes and previous repairs

7. JOINTS
   0 = None
   1 = Minor; joint material missing or deteriorated
   2 = Moderate; broken and less than 2” wide
   3 = Severe; broken and 2” to 4” wide
   4 = Critical; broken and wider than 4”

   Suggested Comments: numbers, location, measurements, causes and previous repairs

8. WALL CAP
   0 = None
   1 = Minor; small cracks
   2 = Moderate; cracks & delaminations
   3 = Severe; cracks & delaminations with exposed rebar
   4 = Critical; large sections of cap deteriorated or missing

   Suggested Comments: numbers, location, measurements, causes and previous repairs

9. STONE OR BLOCK
   0 = None
   1 = Minor; isolated missing and or loose units
   2 = Moderate; small areas of missing and loose units
   3 = Severe; large areas of missing and loose units
   4 = Critical; very large areas of missing and loose units

   Suggested Comments: numbers, locations, measurements, causes and previous repairs

10. FOOTING
    0 = None
    1 = Minor; cracked
    2 = Moderate; cracked and spalled
    3 = Severe; cracked, spalled and broken
    4 = Critical; cracked, spalled, broken and exposed rebar

    Suggested Comments: numbers, locations, measurements, causes, previous repairs and for footers underground and unable to inspect write NA

11. LANDSLIDE DAMAGE
    0 = None
    1 = Minor; debris overtopping wall, but no damage to wall
    2 = Moderate; minor damage to wall
    3 = Severe; damage to wall requires repairs
    4 = Critical; wall failure caused by landslide

    Suggested Comments: locations, causes, property effected and previous repairs

12. TREE DAMAGE
    0 = None
    1 = Minor; light damage
    2 = Moderate; cracking and movement
    3 = Severe; damage to wall requires repairs
    4 = Critical; wall failure caused by trees

    Suggested Comments: numbers, location, damage and previous repairs

DRAINAGE DIVISION

13. UNDERDRAINS AND BACKDRAINS
    0 = None
    1 = Minor; pipe leaking onto sidewalk or roadway
    2 = Moderate; partial blockage
    3 = Severe: full blockage
    4 = Critical: collapsed pipe

    Suggested Comments: inspect outlet after heavy rain, inform Stormwater of problem, most pipes are underground and cannot be inspected, therefore the most common comment is NA

14. WEEP HOLES
    0 = None
    1 = Minor; some holes clogged and or buried
    2 = Moderate; 1/3 of holes are clogged and or buried
    3 = Severe; 2/3 of holes are clogged and or buried
    4 = Critical; all holes are clogged and or buried

Suggested Comments: numbers, holes are weeping, roots in hole and debris in hole

15. DITCHES AND TRENCHES
    0 = None
    1 = Minor; ditch partially blocked
    2 = Moderate; ditch fully blocked and or slightly settled
    3 = Severe; ditch settled enough to impede flow of water
    4 = Critical; ditch damaged and non-functional

    Suggested Comments: clean ditch and or inlet, measurements, and inform Stormwater

16. EROSION
    0 = None
    1 = Minor; light overtopping or one end eroded
    2 = Moderate; moderate overtopping and or both ends eroded
    3 = Severe; heavy overtopping and erosion at ends which requires cleanup or slight undermining of wall
    4 = Critical; wall undermined by erosion

    Suggested Comments: description of erosion, causes and previous repairs

17. SEEPAGE
    0 = None
    1 = Minor; slight seepage through joints and or cracks
    2 = Moderate; moderate seepage through joints and or cracks
    3 = Severe; heavy seepage through joints and or cracks
    4 = Critical; constant flow of water through joints and or cracks

    Suggested Comments: numbers, locations, water ponding, slick surfaces, algae, possible spring or broken sewer pipe behind wall

COSMETIC DIVISION

18. DISCOLORATION
    0 = None
    1 = Minor; 25% or less
    2 = Moderate; 25%+ to 50%
    3 = Severe; 50%+ to 75%
    4 = Critical; more than 75%

    Suggested Comments: types, locations and causes

19. GRAFFITI
    0 = None
    1 = Minor; patches from previous cover-up

2 = Moderate; small amounts
3 = Severe; large amounts
4 = Critical; ugly surface due to repeated graffiti & cover-ups

Suggested Comments: notify graffiti removal and or notify Police gang unit

20. GUNITE
    0 = None
    1 = Minor; sporadic flaking
    2 = Moderate; small portions fallen
    3 = Severe; large amounts fallen
    4 = Critical; mostly gone and non-functioning

    Suggested Comments: numbers, locations and causes

21. PAINT OR MIRACOAT
    0 = None
    1 = Minor; sporadic flaking
    2 = Moderate; small portions missing
    3 = Severe; large portions missing
    4 = Critical; mostly missing

    Suggested Comments: numbers, location and causes

MISCELLANEOUS

22. BRUSH OR OVERGROWTH
    0 = None
    1 = Minor; landscaping
    2 = Moderate; over hanging wall
    3 = Severe; over hanging and in front of wall
    4 = Critical; wall completely overgrown, inaccessible

    SUGGESTED COMMENTS: location and notify Public Services

23. RAILING OR GUARDRAIL
    0 = None
    1 = Minor; light damage or rusted
    2 = Moderate; moderate damage
    3 = Severe; heavy damage or rusted through, requires repairs
    4 = Critical; mostly wrecked and or missing, requires replacement

    Suggested Comments: location, amount, notify Public Services and research Police Report

24. CURB
    0 = None
    1 = Minor; light deterioration or damage

2 = Moderate; moderate deterioration or damage
3 = Severe; heavy deterioration or damage, requires repairs
4 = Critical; mostly deteriorated, damaged or missing, requires replacement

Suggested Comments: location, amount, causes and notify proper agency

25. ROADWAY OR SIDEWALK
    0 = None
    1 = Minor; light cracking and or settlement
    2 = Moderate; moderate cracking and or settlement
    3 = Severe; heavy deterioration, requires repairs
    4 = Critical; unusable, requires replacement

    Suggested Comments: location, amount, causes and notify proper agency

26. STEPS
    0 = None
    1 = Minor; light deterioration
    2 = Moderate; moderate deterioration
    3 = Severe; heavy deterioration, requires repairs
    4 = Critical; unusable, requires replacement

    Suggested Comments: location, amount, causes and notify proper agency

GENERAL CONDITION

27. OVERALL WALL RATING
    0 = Excellent Condition: No Problem
    1 = Good Condition: Minor Movement, Cracking, settlement and Discoloration
    2 = Fair Condition: Wall stable but Need Minor Repairs
    3 = Poor Condition: Excessive deterioration, Major Rehab Work Required
    4 = Wall Failure: Immediate Replacement Required

    Suggested Comments: location, amount, causes and notify proper agency