City of Sierra Madre
Agenda Report

TO:	Honorable Mayor and Members of the City Council
FROM:	Chris Cimino, Director of Public Works
REVIEWED BY:	Jose Reynoso, City Manager
DATE:	October 11, 2022
SUBJECT:	**RECEIVE AND FILE THE 2022 SIDEWALK ASSESSMENT AND DIRECT STAFF TO CREATE A FOUR-YEAR SIDEWALK REPAIR PROGRAM AND ENTER INTO A CONTRACT WITH PRECISION CONCRETE CUTTING**

STAFF RECOMMENDATION

Staff is recommending the City Council receive and file the 2022 assessment of the city sidewalks and direct staff to create a four-year sidewalk lift repair program to include a new assessment in the fourth year of the program. And authorize the City Manager to enter into a contract with Precision Concrete in an amount not to exceed $242,000.

ALTERNATIVES

1. Receive and file the 2022 Sidewalk Assessment of the city sidewalks and direct staff to solicit bids for sidewalk repairs throughout the City.

2. Receive and file the 2022 Sidewalk Assessment of the city sidewalks and direct staff to continue making necessary repairs during the Street projects.

3. Receive and file the 2022 Sidewalk Assessment of the city sidewalks.

SUMMARY

The 2015 Sidewalk Master Plan was prepared and the past seven years' staff has included sidewalk repairs and replacements in each year's Street Improvement Projects. Over the past seven years, staff has repaired and replaced more than 24,000 square feet of sidewalk and 168 Curb ramps have been improved to new ADA Standards. In 2021, staff solicited Precision Concrete to assess all the city sidewalks and inventory all displacements, deficiencies, and hazards on all the city sidewalks. The result was 2,535 areas with deficiencies of 1/4" to 2.5" sidewalk lifts. There are also 319 Lifts >2.5" and/or spalling and deterioration beyond repairing which result in a recommended removal and replacement for the repairs. Most of the sidewalk lifts are caused by private and public parkway trees.

Attached is a summary of zones 1 through 4 for your review, Attachment A. There are 4 binders

of the assessments with summaries, pictures, and a record of our complete city sidewalk system. The full Sidewalk Assessments binders are printed and available for viewing at the front counter of City Hall.

ANALYSIS

Pursuant to SMMC 3.08.090(D), staff is proposing to piggyback on the RFP for the City of Carson in place of soliciting bids through our bid process. Staff studied the City of Carson's bid process and discovered there is only one company that saw cuts the sidewalks to a smooth surface. Precision Concrete has patented the process of saw cutting the concrete, all other contractors use a process of grinding concrete for the purpose of leveling out sidewalks. The grinding of concrete leaves a pulverized ground down concrete which causes the concrete to spall and deteriorate faster. The staff does not recommend the grinding of the concrete as it is a much inferior method to the saw cutting. Carson solicited bids and received two bids one from Precision Concrete and the second bid did not have the required capabilities and technology to saw cut concrete for proper repairs nor did they have the equipment to abide by the Cal-OSHA and SCAQMD requirements for dust control. Using the same pricing Carson received in their bidding process, Precision Concrete included an estimate of $220,301.46 to saw cut all sidewalk lifts <2.5" for a total of 2,216 sections of sidewalk throughout the city at a cost not to exceed $242,000 which includes a 10% contingency. This equates to $99 per lift of less than 2.5 inches. Precision Concrete has the technology to saw cut the concrete at a level plane that meets ADA-required standards. Staff is recommending creating a four-year process to remove trip hazards zone-by-zone each year at a cost of around $55,000 per year. The fourth year Precision Concrete will evaluate the first zone again to evaluate the program and recommend how to proceed with the program. The inspection assessment program will also be used in the sidewalk replacement program with our street rehabilitation projects.

FINANCIAL REVIEW/SOURCE OF FUNDING

Staff is recommending the use of Metro Funds Measure M and Measure R funds for the repairs of the existing sidewalks. The City receives annual funding for street and sidewalk repairs. Measure M and R are the least restrictive and are available for this type of repair.

ENVIRONMENTAL (CEQA)

Repair of existing improvements is categorically exempt from CEQA. California Code of Regulations Title 14, Chapter 3, Section 15301 describes Class 1 exemptions that include the repair, maintenance, or minor altering of existing facilities. Specifically, Section 15301(c) exempts the repair and maintenance of existing streets, highways, sidewalks, gutters, etc.

PUBLIC NOTICE PROCESS

This item has been noticed through the regular agenda notification process. Copies of this report can be accessed on the City's website at www.cityofsierramadre.com.

ATTACHMENTS

Attachment A; Precision Concrete Summary

Attachment B; Precision Concrete proposal and pricing.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ON-CALL SERVICES FOR CONCRETE TRIP HAZARD REPAIR

Presented to: City of Sierra Madre
232 W. Sierra Madre Blvd.
Sierra Madre, CA 91024
September 29th, 2022

CONTACT: Chris Cimino

INTRO LETTER

Dear Mr. Cimino,

From 2007, Precision Concrete Cutting (PCC) of Southern California worked with many cities, inspecting and repairing over 100,000 sidewalk panels around Southern California without a single safety incident. This experience has granted us the unique opportunity to fully recognize what it is like to work in the City of Sierra Madre and interact with the community. Ron Durna will be the foreman during this time and will be the Project Manager if award the RFP. PCC can meet all the contract requirements and specifications outlined in the RFP for Sidewalk Trip Hazard Remediation.

Precision Concrete Cutting of Southern California has been operating for more than 16 years. Its Senior Management is based here in Southern California, possessing a combination of 30+ years in service, project implementation, and business management on an executive level. In its operating years, Precision Concrete Cutting has led the company to build a clientele of over 500 and completing more than 1000 projects repairing trip and fall hazards.

The management team is complemented by an elite team of professional repair and survey technicians, who work in crews to inspect and repair sidewalks. In their artisan roles, each must achieve an immense level of craftsmanship, perform consistently at a physical demanding level, all while being meticulous in calculating and recording repair specifications. In addition, each technician provides a courteous, pleasant interface with members of business and residential communities they meet in their day-to-day activities -- to deliver the results expected by clients.

If awarded the contract for Sidewalk Trip Hazard Remediation, Precision Concrete Cutting will deploy personnel who are experienced in operating with cities of all magnitudes. Their experience will enable a swift yet efficient start for the service delivery of this contract.

The team members assigned and responsible for the City of Sierra Madre projects, have many years of experience working in the area, along with other municipalities ranging from state capitals to small towns. Each technician is experienced in collaborating on projects as complex as: light rail train systems, city hazards, elevation correction per drainage issue and/ or repairing decades of work order backlogs for municipal clients. They are trained in the consideration of how to operate in sensitive business districts, pedestrian/resident inquiries, and customer communications.

Our experience and delivery of end-to-end sidewalk inspection and repair services has resulted in multi-year agreements with large municipal customers, universities, housing authorities, property management firms and private companies.

Should the City choose Precision Concrete Cutting, we promise to continue our commitment to excellence and quality. We will deploy only our most experienced and skilled technicians. As our track record has proven, we promise to provide the citizens of Sierra Madre with the quality of service that they have grown to expect.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ABOUT PRECISION CONCRETE CUTTING

PCC is the leader in uneven sidewalk repair

- Founded in 1992, branches throughout the US
- Developed a process to overcome the limitations and poor results from other methods
- Awarded 5 patents by the US patent and trademark office
- PCC offers this services throughout the US and Canada
- Working with 100s of cities, counties, and property managers throughout California

U.S. GREEN BUILDING COUNCIL MEMBER

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

WHAT WE DO

We help cities keep their sidewalks safe, accessible, and ADA compliant while managing tight budgets.

- Sidewalk safety, accessibility, and risk management are top priorities because of recent national and state court rulings.
- The question for City Managers is how to manage sidewalk maintenance and risk within the constraints of your budgets.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

OUR SOLUTION

We offer the most cost effective solution for maintaining your sidewalks.

Provide comprehensive Sidewalk Assessment Surveys using our specialized GPS survey software to identify the problem and provide an in-depth report and recommendations.

Offer a unique Uneven Sidewalk Repair service that stretches your budget, meets your ADA requirements, and removes your risk of liability.

Offer a city wide Sidewalk Repair and Maintenance Programs tailored to your needs and budget constraints.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

COMPREHENSIVE SIDEWALK SURVEYS

City of Commerce inspection report

Map of hazard location Emil Avenue

Precision Concrete Cutting

City of Commerce
City Manager-Public Works
2555 Commerce Way
Commerce, CA 90040
PH: (323) 722-4805

Sidewalk Inspection Report Matrix
City of Commerce - Zone 247
Emil Avenue

Precision Concrete Cutting
13085 Peyton Dr #C235
Chino Hills, Ca 91709

Total Sq. Ft. 1545

	LOCATION SPECIFICS					CONDITION								RECOMMENDED REPAIR					VISUAL	LAT	LONG
No.	Street Name	Segment From	Segment To	Location/Description	Insp Date	Height 1	Height 2	Lineal Feet	Spall	Joint	Crack	Tree	Trash Pile	Replace	Grind	Panel Width	Length (L/R)	SQ FT	Image		
1	Emil Avenue	Watcher	Gage	6354 E. Emil Ave.	2016-08-23	0.38	0.38	4							X	4	12	48	Hazard 1	33.9736838	-118.14048
2	Emil Avenue	Watcher	Gage	6354 E. Emil Ave.	2016-08-23	0.88	0.38	5							X	4	5	20	Hazard 2	33.9737816	-118.14048
3	Emil Avenue	Watcher	Gage	6350 E. Emil Ave.	2016-08-23	0.38	0.38	4							X	4	5	20	Hazard 3	33.975812	-118.14047
4	Emil Avenue	Watcher	Gage	6350 E. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 4	33.9750265	-118.14042
5	Emil Avenue	Watcher	Gage	AF 6347 E. Emil Ave.	2016-08-23	0.38	0.25	4							X	4	5	20	Hazard 5	33.9739799	-118.1404
6	Emil Avenue	Watcher	Gage	AF 6347 E. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 6	33.973998	-118.14039
7	Emil Avenue	Watcher	Gage	AF 6347 E. Emil Ave.	2016-08-23	0.63	0.25	4							X	4	5	20	Hazard 7	33.9740372	-118.14037
8	Emil Avenue	Watcher	Gage	AF 6347 E. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 8	33.9740372	-118.14039
9	Emil Avenue	Watcher	Gage	AF 6335 Emil Ave.	2016-08-23	0	0	0						X		4	40	160	Hazard 9	33.9742546	-118.14055
10	Emil Avenue	Watcher	Gage	AF 6327 Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 10	33.9744272	-118.14018
11	Emil Avenue	Watcher	Gage	AF 6327 Emil Ave.	2016-08-23	1.13	0.25	4							X	4	5	20	Hazard 11	33.9744415	-118.1402
12	Emil Avenue	Watcher	Gage	6318 E. Emil Ave.	2016-08-23	1.38	0.25	4							X	4	5	20	Hazard 12	33.9745331	-118.1401
13	Emil Avenue	Watcher	Gage	6318 E. Emil Ave.	2016-08-23	0.5	0	4							X	4	5	20	Hazard 13	33.9745789	-118.14008
14	Emil Avenue	Watcher	Gage	6304 E. Emil Ave.	2016-08-23	0.88	0.25	9							X	9	10	90	Hazard 14	33.975071	-118.13967
15	Emil Avenue	Watcher	Gage	6304 E. Emil Ave.	2016-08-23	0.38	0.25	9							X	9	15	135	Hazard 15	33.9749565	-118.13961
16	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	1.5	0.38	4							X	4	5	20	Hazard 16	33.9759102	-118.13928
17	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.38	0.38	4							X	4	5	20	Hazard 17	33.9758987	-118.13982
18	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.88	0.38	4							X	4	5	20	Hazard 18	33.9759216	-118.13941
19	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.63	0.5	4							X	4	5	20	Hazard 19	33.9758911	-118.1396
20	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.63	0.5	5							X	4	5	20	Hazard 20	33.9758224	-118.13946
21	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.5	0.13	4							X	4	5	20	Hazard 21	33.9757957	-118.13947
22	Emil Avenue	Watcher	Gage	6219 W. Emil Ave.	2016-08-23	0.38	0.13	4							X	4	5	20	Hazard 22	33.9755325	-118.13968
23	Emil Avenue	Watcher	Gage	6225 W. Emil Ave.	2016-08-23	0	0	0						X		4	32	128	Hazard 23	33.9754181	-118.13972
24	Emil Avenue	Watcher	Gage	6281 W. Emil Ave.	2016-08-23	0.75	0.25	4							X	4	5	20	Hazard 24	33.9752693	-118.13984
25	Emil Avenue	Watcher	Gage	6303 W. Emil Ave.	2016-08-23	0	0	0						X		4	26	104	Hazard 25	33.9749413	-118.14006
26	Emil Avenue	Watcher	Gage	6315 W. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 26	33.9746857	-118.14021
27	Emil Avenue	Watcher	Gage	6315 W. Emil Ave.	2016-08-23	0.63	0.38	4							X	4	5	20	Hazard 27	33.9746628	-118.14021
28	Emil Avenue	Watcher	Gage	6315 W. Emil Ave.	2016-08-23	0.5	0.13	4							X	4	5	20	Hazard 28	33.9746513	-118.14023
29	Emil Avenue	Watcher	Gage	6319 W. Emil Ave.	2016-08-23	0.38	0.13	4							X	4	5	20	Hazard 29	33.9746056	-118.14026
30	Emil Avenue	Watcher	Gage	6323 W. Emil Ave.	2016-08-23	0.5	0.38	1							X	4	5	20	Hazard 30	33.9745216	-118.14031
31	Emil Avenue	Watcher	Gage	6327 W. Emil Ave.	2016-08-23	1.25	0.5	4							X	4	5	20	Hazard 31	33.9744377	-118.14033
32	Emil Avenue	Watcher	Gage	6327 W. Emil Ave.	2016-08-23	0.75	0.38	4							X	4	5	20	Hazard 32	33.9744148	-118.14034
33	Emil Avenue	Watcher	Gage	6327 W. Emil Ave.	2016-08-23	1.25	0.75	4							X	4	5	20	Hazard 33	33.974411	-118.14037
34	Emil Avenue	Watcher	Gage	6327 W. Emil Ave.	2016-08-23	1.13	0.63	4							X	4	5	20	Hazard 34	33.9743767	-118.14039
35	Emil Avenue	Watcher	Gage	6335 W. Emil Ave.	2016-08-23	0.38	0.25	4							X	4	5	20	Hazard 35	33.9743576	-118.14043
36	Emil Avenue	Watcher	Gage	6341 W. Emil Ave.	2016-08-23	0.75	0.38	4							X	4	5	20	Hazard 36	33.9741516	-118.14055
37	Emil Avenue	Watcher	Gage	6341 W. Emil Ave.	2016-08-23	1.38	0.5	4							X	4	5	20	Hazard 37	33.974144	-118.14056
38	Emil Avenue	Watcher	Gage	6341 W. Emil Ave.	2016-08-23	0.88	0.25	4							X	4	5	20	Hazard 38	33.9741287	-118.14056
39	Emil Avenue	Watcher	Gage	6347 W. Emil Ave.	2016-08-23	0.38	0.25	4							X	4	5	20	Hazard 39	33.9740715	-118.14059
40	Emil Avenue	Watcher	Gage	6345 W. Emil Ave.	2016-08-23	0.63	0.25	4							X	4	5	20	Hazard 40	33.9740219	-118.14063
41	Emil Avenue	Watcher	Gage	6351 W. Emil Ave.	2016-08-23	0.5	0.13	4							X	4	5	20	Hazard 41	33.9738083	-118.1407
42	Emil Avenue	Watcher	Gage	6357 W. Emil Ave.	2016-08-23	0.5	0.38	4							X	4	5	20	Hazard 42	33.9737167	-118.14072
43	Emil Avenue	Watcher	Gage	6357 W. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 43	33.9736824	-118.1407
44	Emil Avenue	Watcher	Gage	6359 W. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 44	33.9736481	-118.14072
45	Emil Avenue	Watcher	Gage	6359 W. Emil Ave.	2016-08-23	1	0	4							X	4	5	20	Hazard 45	33.9736947	-118.14072
46	Emil Avenue	Watcher	Gage	6359 W. Emil Ave.	2016-08-23	1	0.5	4							X	4	5	20	Hazard 46	33.9735718	-118.1407
47	Emil Avenue	Watcher	Gage	6367 W. Emil Ave.	2016-08-23	0.38	0	4							X	4	5	20	Hazard 47	33.973484	-118.1407
48	Emil Avenue	Watcher	Gage	6367 W. Emil Ave.	2016-08-23	0.63	0	5							X	4	10	40	Hazard 48	33.973465	-118.1407
49	Emil Avenue	Watcher	Gage	6367 W. Emil Ave.	2016-08-23	1	0.38	4							X	4	5	20	Hazard 49	33.9733846	-118.14075
	Cell Totals							195						3	46			1545			

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

LEADING UNEVEN SIDEWALK REPAIR

The benefits of our service include

- Substantial budget savings over other methods
- Guaranteed ADA and OSHA Compliance
- Reduced liability risk
- A clean, attractive finish
- Quick removal with little disruption in service
- Safe and longer lasting sidewalks
- Satisfied community members

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

WHY WE DON'T GRIND

- Grinding often damages the concrete (breaks edges, knocks out aggregate, scars adjacent panels, creates micro cracks).
- Often unsightly (leaves a rough, uneven scarring)
- Difficult to comply with the ADA slope requirements
- Hard to use on larger trip hazards (over 1 inch)
- Unable to remove hazards next to objects
- Very slow process and generates lots of dust
- Has no cost advantage

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

LEADING UNEVEN SIDEWALK REPAIR

Rather than grind down trip hazards or replace the sidewalk, we cut trip hazards with precision diamond saws.

- **Proven patented diamond saw cutting method**
  - completely removes difference in vertical elevation of greater than 1/4 inch to 2 1/2 inches between panels. Saves more sidewalk.
- **Superior results compared to unsightly grinding and asphalt patching**
  - Lower Risk through full compliance with ADA and OSHA requirements.
  - Aesthetics more correct for city residents & visitors, no ugly grinds or asphalt ramps.
- **Remove sidewalk hazards quickly, with little disruption of foot traffic**
  - up to 150 repairs per day.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

PRECISION CONCRETE CUTTING REPAIRS

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

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PRECISION CONCRETE CUTTING
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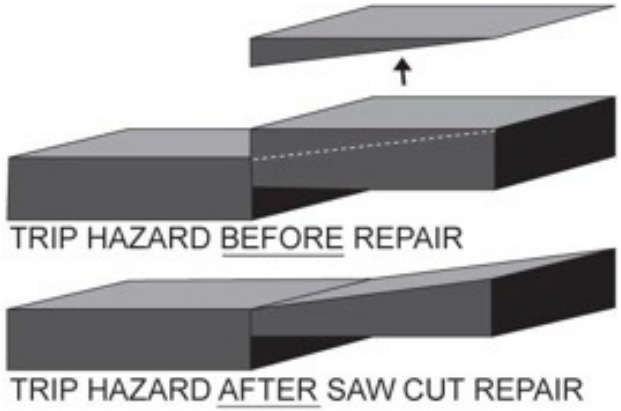
PRECISION CONCRETE CUTTING DIFFERENCE

REPAIR SPECIFICATIONS

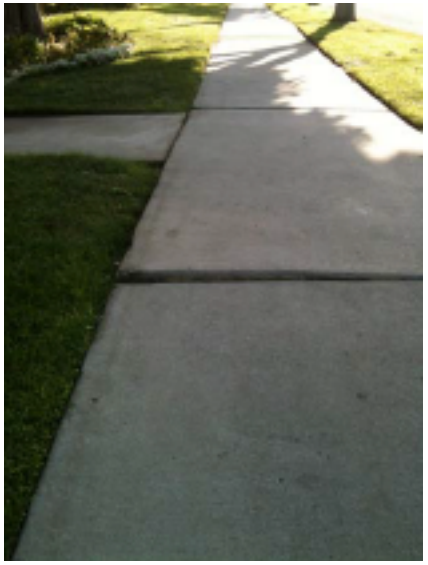
1. Hazards removed from the full length of the panel (full edge-to-edge repair).
2. Sidewalks repaired at a slope of 1:8, in compliance with ADA requirements.
3. Handicap ramps or special areas repaired at a slope of 1:12, in compliance with ADA requirements.
4. Debris from repaired areas collected and removed.
5. A dust abatement system used during all repair operations.
6. The repaired areas are smooth and uniform with a coefficient of friction exceeding OSHA requirements for public walkways.
7. A detailed, audit-able invoice is presented for every repair.



PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

CURRENT REPLACEMENT REPAIR METHOD

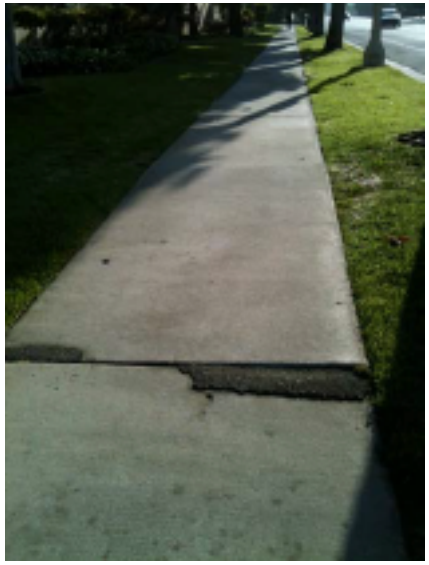
Coverage Limited by Budget Allocation



1/2 to 1 inch high

Asphalt Ramp or Grind

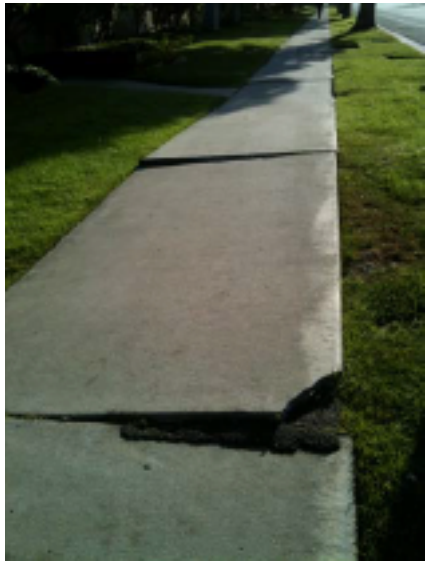
$25 - $50 per location



1 to 1 1/2 Inches High

Replace

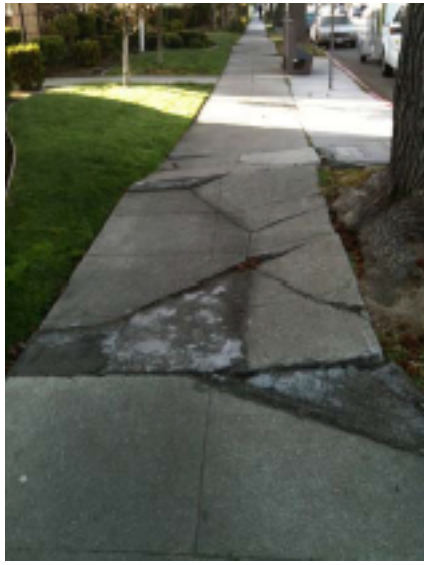
$3,000 - $5,000 per location



1 1/2 to 2 Inches High

Replace

$3,000 - $5,000 per location



Above 2 Inches High

Replace

$3,000 - $5,000 per location

$$$ BUDGET & TIME INTENSIVE - $$$ LIABILITY RISK

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

STRETCH YOUR BUDGET

Precision Saw Cutting can repair more at a fraction of the cost of replacement

1/2 to 1 inch high

Repair by Precision Saw Cutting

$25 - $50 per location

1 to 1 1/2 Inches High

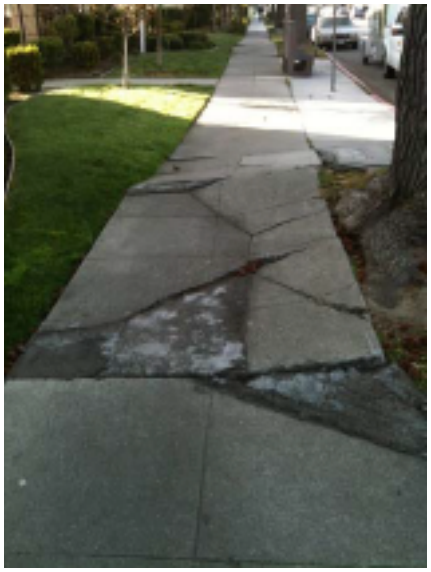
Repair by Precision Saw Cutting

$50 - $100 per location

1 1/2 to 2 Inches High

Repair by Precision Saw Cutting

$100 - $200 per location



Above 2 Inches High

Replace Temporary Asphalt

$3,000 - $7,000 per location

REPAIR MORE SIDEWALK & REMOVE LIABILITY

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

PRECISION SAW CUTTING SOLUTION

80% of problems addressed by low cost saw cutting ~ $25 - $200 per location

Precision Saw Cutting sidewalk panels for changes in elevations up to 2 1/2 inches high

- Repair 10 times as much sidewalk as removal and replacement
- Better use of city assets, save more of the sidewalk

20% addressed by higher cost replacement ~ $3000 - $5000 per location

- Replace sidewalk panels with changes in elevation between panels above 2 1/2 inches
- Saves budget for more repairs of severe problems
- Only replace when absolutely necessary

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

MAINTENANCE & RISK MANAGEMENT PROGRAM

Proposed Annual Sidewalk Maintenance Program

- **Sidewalk Survey**
  - Annual, bi-annual, quarterly inspection
  - Specify problems and recommended actions to be taken.
  - Prioritize the areas and problems to be resolved
  - Size and severity of hazards, high traffic areas
  - Identify repairs to be accomplished by saw cutting
  - Recommend areas to be demolished and replaced
- **Remove the existing trip hazards by Saw Cutting up to 2 1/2 inches in height**
  - Fixed budget “not to exceed” per month, quarter, year
  - Quickly reduces Liability Risk
  - Lowest overall cost
  - Minimizes the amount of costly replacement
  - Maximizing the useful life of the existing sidewalk
  - Maximize the amount of sidewalk restored
  - Stretching budget dollars over more miles of sidewalk
- **Remove and Replace areas not recommended for saw cutting**
  - Maximizes the repair of locations that truly needs to be replaced

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

CASE STUDY: WESTWOOD VILLAGE

- **Removed 496 sidewalks trip hazards of the 615 existing trip hazards identified**
  - -completely removed difference in vertical elevation of 1/2 inch to 2 1/2 inches between panels
  - -recommended only 91 areas for removal and replacement
- **Project completed quickly, with little disruption of foot traffic**
  - - only 30 days to complete, work completed in non-peak hours
- **Substantial budget savings**
  - -Save more than $107,000 in demolition and replacement costs
  - -extended the useful life of existing sidewalks for many years
- **Superior results compared to grinding and asphalt patching**
  - -In full compliance with ADA and OSHA requirements.
  - -aesthetics more correct for Westwood Village, no ugly grinds and less asphalt ramps

- **80% of problems addressed by low cost methods - $25 -$300 per location**
- **20% addressed by high cost methods - $3000-$5000 per location**

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

OUR SURVEYS

CITYWIDE SIDEWALK ASSESSMENT

- Inspection of sidewalks within the public right-of-way, commercial/residential driveway approach.
- Scope of Work as agreed by City and Precision Concrete Cutting (PCC).
- Risk factors & distress items are collected over a period as agreed by the City and PCC.
- All data is recorded in the Sidewalk Assessment Report as agreed by the City and PCC.
- Data summarized by street segments and itemized by physical address, GPS location, the size of the " Hazard", the severity of the hazard (amount of risk) and "Condition" (type of repair).
- Recommended action provided for each location including repair method.
- Maps are created by street segment that display the itemized hazard location color coded by priority as Less Severe (yellow), Severe (orange), and Most Severe (red).
- Photographs can be taken of damaged areas as agreed by the CITY and PCC.

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Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SURVEYS

APPROACH

- Simple and fast
- Survey resources will include experienced surveyors/data collectors,
- Specialized data collection and GPS mapping program
- Data processing technicians
- Scope of Work customized to meet City requirements

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

CITYWIDE SIDEWALK ASSESSMENT

FOCUS ON THE FOLLOWING AREAS OF SIDEWALK MAINTENANCE

SIDEWALK CONDITION

Sidewalk condition is a measurement of physical distresses such as spall surfaces, cracks, heaving, and settling. Spalling is the result of environmental exposure of inferior workmanship or materials. Cracking is a sign of premature failure that is often the result of excessive loads from heavy construction equipment, settling due to poor trench compaction or heaving caused by tree roots.

SIDEWALK TRIP HAZARDS

Trip hazards are vertical faces that present the opportunity for the unaware or impaired person to catch their toe. The trip faces that are between 1/2” and 2” are considered more dangerous than larger separations. Trips are often repaired one of two ways: trips under 2 " inches in height are cut off and feathered back at ADA standards, larger trips are totally removed and replaced with new concrete.

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Trip Hazard Removal Specialists

CITYWIDE SIDEWALK ASSESSMENT

Sidewalk Trip Hazards.

Sidewalk trip hazards are recorded and divided by the size of the vertical face exposed. We have grouped the surveyed hazards into the following three classes.

Hazard Classes

Less Severe (small) Above 1/4” high to 1/2”

Severe (medium) 5/8” high to 1”

Most Severe (large) Above 1” high to 2 1/2”

We recommend the repair of trip hazards by saw cutting for all hazards 3/8” to 2 "” high to save cost and extend the useful life of the existing sidewalk. Larger trips (above 2 "”) and are best resolved by the removal and replacement of the entire panel. The cutting of individual trip hazards can be scheduled to incrementally address the most hazardous areas first. The “remove and rep

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EXAMPLE: SIDEWALK ASSESSMENT MATRIX

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

Precision Concrete Cutting
13388 Peyton Dr #C235
Chino Hills, Ca 91709

City of Commerce
City Manager-Public Works
2535 Commerce Way
Commerce, CA 90040
PH: (323) 722-4805

Sidewalk Inspection Report Matrix
City of Commerce - Zone 247
Emil Avenue

Total Sq. Ft. 1545

	LOCATION SPECIFICS					CONDITION							RECOMMENDED REPAIR						VISUAL	LAT	LONG
No.	Street Name	Segment From	Segment To	Location/Description	Insp Date	Height 1	Height 2	Lineal Feet	Spall	Joint	Crack	Tree	Patch Fill	Replace	Cut	Panel Width	Length (L/F)	SQ FT	Image		
1	Emil Avenue	Watcher	Gage	6354 E. Emil Ave.	2016-08-23	0.38	0.38	4							X	4	12	48	Hazard 1	33.9736938	-118.14048
2	Emil Avenue	Watcher	Gage	6354 E. Emil Ave.	2016-08-23	0.88	0.38	5							X	4	5	20	Hazard 2	33.9737816	-118.14048
3	Emil Avenue	Watcher	Gage	6350 E. Emil Ave.	2016-08-23	0.38	0.38	4							X	4	5	20	Hazard 3	33.9738121	-118.14047
4	Emil Avenue	Watcher	Gage	6350 E. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 4	33.9739265	-118.14042
5	Emil Avenue	Watcher	Gage	AF 6347 E. Emil Ave.	2016-08-23	0.38	0.25	4							X	4	5	20	Hazard 5	33.9739799	-118.1404
6	Emil Avenue	Watcher	Gage	AF 6347 E. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 6	33.973999	-118.14039
7	Emil Avenue	Watcher	Gage	AF 6347 E. Emil Ave.	2016-08-23	0.63	0.25	4							X	4	5	20	Hazard 7	33.9740372	-118.14037
8	Emil Avenue	Watcher	Gage	AF 6347 E. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 8	33.9740372	-118.14039
9	Emil Avenue	Watcher	Gage	AF 6335 Emil Ave.	2016-08-23	0	0	0						X		4	40	160	Hazard 9	33.9742546	-118.14026
10	Emil Avenue	Watcher	Gage	AF 6327 Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 10	33.9744072	-118.14018
11	Emil Avenue	Watcher	Gage	AF 6327 Emil Ave.	2016-08-23	1.13	0.25	4							X	4	5	20	Hazard 11	33.9744415	-118.1402
12	Emil Avenue	Watcher	Gage	6318 E. Emil Ave.	2016-08-23	1.38	0.25	4							X	4	5	20	Hazard 12	33.9745331	-118.1401
13	Emil Avenue	Watcher	Gage	6318 E. Emil Ave.	2016-08-23	0.5	0	4							X	4	5	20	Hazard 13	33.9745789	-118.14008
14	Emil Avenue	Watcher	Gage	6304 E. Emil Ave.	2016-08-23	0.88	0.25	9							X	9	10	90	Hazard 14	33.975071	-118.13987
15	Emil Avenue	Watcher	Gage	6304 E. Emil Ave.	2016-08-23	0.38	0.25	9							X	9	15	135	Hazard 15	33.9749565	-118.13982
16	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	1.5	0.38	4							X	4	5	20	Hazard 16	33.9759102	-118.13928
17	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.38	0.38	4							X	4	5	20	Hazard 17	33.9758987	-118.13982
18	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.88	0.38	4							X	4	5	20	Hazard 18	33.9759216	-118.13941
19	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.63	0.5	4							X	4	5	20	Hazard 19	33.9758911	-118.1394
20	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.63	0.5	5							X	4	5	20	Hazard 20	33.9758224	-118.13946
21	Emil Avenue	Watcher	Gage	6205 W. Emil Ave.	2016-08-23	0.5	0.13	4							X	4	5	20	Hazard 21	33.9757957	-118.13947
22	Emil Avenue	Watcher	Gage	6219 W. Emil Ave.	2016-08-23	0.38	0.13	4							X	4	5	20	Hazard 22	33.9755325	-118.13968
23	Emil Avenue	Watcher	Gage	6225 W. Emil Ave.	2016-08-23	0	0	0						X		4	32	128	Hazard 23	33.9754181	-118.13972
24	Emil Avenue	Watcher	Gage	6281 W. Emil Ave.	2016-08-23	0.75	0.25	4							X	4	5	20	Hazard 24	33.9752693	-118.13984
25	Emil Avenue	Watcher	Gage	6303 W. Emil Ave.	2016-08-23	0	0	0						X		4	26	104	Hazard 25	33.9749413	-118.14006
26	Emil Avenue	Watcher	Gage	6315 W. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 26	33.9746857	-118.14021
27	Emil Avenue	Watcher	Gage	6315 W. Emil Ave.	2016-08-23	0.63	0.38	4							X	4	5	20	Hazard 27	33.9746628	-118.14021
28	Emil Avenue	Watcher	Gage	6315 W. Emil Ave.	2016-08-23	0.5	0.13	4							X	4	5	20	Hazard 28	33.9746513	-118.14023
29	Emil Avenue	Watcher	Gage	6319 W. Emil Ave.	2016-08-23	0.38	0.13	4							X	4	5	20	Hazard 29	33.9746056	-118.14026
30	Emil Avenue	Watcher	Gage	6323 W. Emil Ave.	2016-08-23	0.5	0.38	1							X	4	5	20	Hazard 30	33.9745216	-118.14031
31	Emil Avenue	Watcher	Gage	6327 W. Emil Ave.	2016-08-23	1.25	0.5	4							X	4	5	20	Hazard 31	33.9744377	-118.14035
32	Emil Avenue	Watcher	Gage	6327 W. Emil Ave.	2016-08-23	0.75	0.38	4							X	4	5	20	Hazard 32	33.9744148	-118.14034
33	Emil Avenue	Watcher	Gage	6327 W. Emil Ave.	2016-08-23	1.25	0.75	4							X	4	5	20	Hazard 33	33.974411	-118.14037
34	Emil Avenue	Watcher	Gage	6327 W. Emil Ave.	2016-08-23	1.13	0.63	4							X	4	5	20	Hazard 34	33.9743767	-118.14039
35	Emil Avenue	Watcher	Gage	6335 W. Emil Ave.	2016-08-23	0.38	0.25	4							X	4	5	20	Hazard 35	33.9743576	-118.14043
36	Emil Avenue	Watcher	Gage	6341 W. Emil Ave.	2016-08-23	0.75	0.38	4							X	4	5	20	Hazard 36	33.9741516	-118.14055
37	Emil Avenue	Watcher	Gage	6341 W. Emil Ave.	2016-08-23	1.38	0.5	4							X	4	5	20	Hazard 37	33.974144	-118.14056
38	Emil Avenue	Watcher	Gage	6341 W. Emil Ave.	2016-08-23	0.38	0.25	4							X	4	5	20	Hazard 38	33.9741287	-118.14056
39	Emil Avenue	Watcher	Gage	6347 W. Emil Ave.	2016-08-23	0.38	0.25	4							X	4	5	20	Hazard 39	33.9740715	-118.14059
40	Emil Avenue	Watcher	Gage	6345 W. Emil Ave.	2016-08-23	0.63	0.25	4							X	4	5	20	Hazard 40	33.9740219	-118.14063
41	Emil Avenue	Watcher	Gage	6351 W. Emil Ave.	2016-08-23	0.5	0.13	4							X	4	5	20	Hazard 41	33.9738083	-118.1407
42	Emil Avenue	Watcher	Gage	6357 W. Emil Ave.	2016-08-23	0.5	0.38	4							X	4	5	20	Hazard 42	33.9737167	-118.14072
43	Emil Avenue	Watcher	Gage	6357 W. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 43	33.9736824	-118.14071
44	Emil Avenue	Watcher	Gage	6359 W. Emil Ave.	2016-08-23	0.5	0.25	4							X	4	5	20	Hazard 44	33.9736481	-118.14072
45	Emil Avenue	Watcher	Gage	6359 W. Emil Ave.	2016-08-23	1	0	4							X	4	5	20	Hazard 45	33.9735947	-118.14072
46	Emil Avenue	Watcher	Gage	6359 W. Emil Ave.	2016-08-23	1	0.5	4							X	4	5	20	Hazard 46	33.9735718	-118.14071
47	Emil Avenue	Watcher	Gage	6367 W. Emil Ave.	2016-08-23	0.38	0	4							X	4	5	20	Hazard 47	33.973484	-118.1407
48	Emil Avenue	Watcher	Gage	6367 W. Emil Ave.	2016-08-23	0.63	0	6							X	4	10	40	Hazard 48	33.973405	-118.1407
49	Emil Avenue	Watcher	Gage	6367 W. Emil Ave.	2016-08-23	1	0.38	4							X	4	5	20	Hazard 49	33.9733846	-118.14075
	Cell Totals							195						3	46			1545			

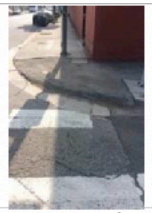
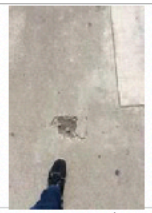
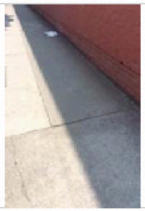
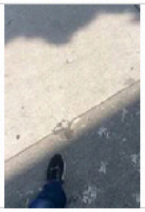
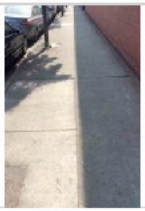
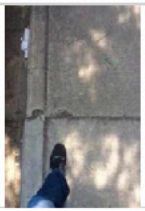
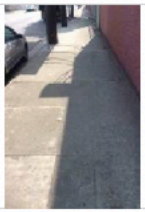
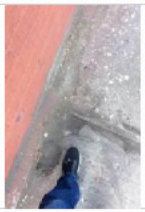
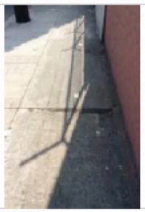
PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

EXAMPLES: ITEMIZED MAPS OF GPS LOCATIONS

Map of hazard location Emil Avenue

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

EXAMPLES: ITEMIZED PICTURES OF LOCATIONS

		
Hazard 1: 3900 Union Pacific Ave corner is asphalt	Hazard 2: 3900 Union Pacific Ave	Hazard 3: 3900 Union Pacific Ave
		
Hazard 4: 3900 Union Pacific Ave	Hazard 5: 3900 Union Pacific Ave	Hazard 6: 3900 Union Pacific Ave
		
Hazard 7: 3900 Union Pacific Ave by tree	Hazard 8: 3900 Union Pacific Ave by tree	Hazard 9: 3900 Union Pacific Ave by tree
		
Hazard 10: 3900 Union Pacific Ave	Hazard 11: 3900 Union Pacific Ave	Hazard 12: 3900 Union Pacific Ave

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

PCC - Safe Sidewalks

SUMMARY

For changes in elevation of sidewalk panels range between 1/4 inch and 2 1/2 inches, Saw Cutting is the most cost effective method to maintain your sidewalks and reduce your risk.

- Complies with ADA standards for removal and slopes
- Meets OSHA recommended standards for slip resistance
- Appears clean and neat
- Cuts precisely removing trip hazards in difficult-to-reach places
- Removes hazards quickly
- Stretches budgets by lengthening the life of concrete sidewalks that might otherwise be replaced.
- Saves Our Customers thousands of $$$ in sidewalk repair and maintenance and liability cost.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

PCC - PROPOSAL AND PRICING

Billing Units: Services are billed in "Inch Feet". An inch foot is calculated by measuring the average height of the sidewalk off-set and multiplying this average by the length of the cut. Example: A sidewalk off-set on a 4-foot wide sidewalk that consists of a 0.5" rise on one side, and tapers down to a zero rise on the other is calculated as follows:

.05" + 0" / 2 * 4' = 1- inch foot

SIDEWALK ASSESSMENT SERVICES	UNIT PRICE $495 PER SIDEWALK MILE
SIDEWALK TRIP HAZARD REPAIR PER INCH FOOT	UNIT PRICE $34.95 PER INCH FOOT

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

PRECISION CONCRETE CUTTING REPAIRS

	INCH FEET	NUMBER OF SAW CUT LOCATIONS	TOTAL COST
ZONE 1	977	296	$34,161.44
ZONE 2	3,057	911	$106,677.23
ZONE 3	744	237	$25,987.51
ZONE 4	2,002	772	$70,073.28
TOTALS	6,780	2,216	$236,899.46

CREDIT AMOUNT FOR SURVEY			
			$16,598.00
		TOTAL COST	**$220,301.46**

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

PCC - REFERENCES

CITY NAME AND DEPARTMENT	CITY OF COMMERCE
ADDRESS	2535 COMMERCE WAY
CITY, STATE, ZIP	COMMERCE CA 90040
CONTACT NAME AND TITLE	HECTOR OROZCO
CONTACT PHONE NUMBER	323.216.0173
PROJECT	ANNUAL SIDEWALK REPAIR PROJECT

CITY NAME AND DEPARTMENT	CITY OF CYPRESS
ADDRESS	5285 CYPRESS ST.
CITY, STATE, ZIP	CYPRESS CA 90630
CONTACT NAME AND TITLE	JOSE GUERRA
CONTACT PHONE NUMBER	714.229.6760
PROJECT	VARIOUS LOCATIONS PROVIDED BY CITY STAFF

CITY NAME AND DEPARTMENT	CITY OF COMPTON
ADDRESS	205 SOUTH WILLOWBROOK AVE.
CITY, STATE, ZIP	COMPTON, CA 90220
CONTACT NAME AND TITLE	JOHN STRICKLAND
CONTACT PHONE NUMBER	310.605.5505
PROJECT	ANNUAL SIDEWALK REPAIR PROJECT

CONTACT US

PRECISION CONCRETE CUTTING

13089 PEYTON DR #C235

CHINO HILLS CA 91709

PHONE: 909-539-7740

DIR NUMBER: 1000003322

CONTRACTOR LICENSE NUMBER: 925449

socalpcc@safesidewalks.com

www.safesidewalks.com

Trip Hazard Removal Specialist for Los Angeles and San Gabriel Valley

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

Contact: Ron Durna
13089 Peyton Dr. #C235
Chino Hills CA 91709
Office: (909) 539-7740
socalpcc@safesidewalks.com

CITY OF SIERRA MADRE – Zones 1 - 4

Sidewalk Assessment

September 2022

THE CITY OF
SIERRA MADRE

232 W. Sierra Madre Blvd., Sierra Madre, CA 91024 | 626-355-7135

Presented to: City of Sierra Madre • Public Works
232 W. Sierra Madre Blvd. • Sierra Madre, CA 91024 • (626) 355-7135

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

EXECUTIVE SUMMARY

The purpose of this summary is to present the results of the recent survey conducted to define the state of the sidewalks in the City of Sierra Madre – Zone 1 through 4. Precision Concrete Cutting, under the direction of the City of Sierra Madre, conducted this survey. The information resulting from this survey will help facilitate the management of the city's public sidewalk infrastructure.

This survey documents an objective approach to identifying where the greatest needs are. Decision makers now have the ability to visualize overall sidewalk conditions, match up similar needs and judge the impact of budget decisions.

A wide range of lists, spreadsheets, and maps were created with this survey. This Executive Summary outlines the major issues and the details are elaborated further in individual reports. All reports are provide in soft copy for data management.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

EXECUTIVE SUMMARY

APPROACH

The survey resources included experienced data collectors, a specialized data collection and GPS mapping program, and data entry technicians.

An inventory of risk factors and distress items were collected over a 2 week period and entered into a spreadsheet. The data is summarized into street segments and itemized by physical address, GPS location, the size of the " Hazard", the severity of the hazard (amount of risk) and "Condition" (type or repair). Estimated square footage is indicated for each sidewalk panel in need of repair or demolition and replacement.

A series of maps were created by street segment that display the location of each hazard and type of repair required categorized and color coded as:

Yellow: Small Hazard - Saw Cut ● Orange: Medium Hazard – Saw Cut ● Red: Large Hazard – Saw Cut

Purple: Spall Fill ● Green: Tree Related Issue ● Grey: Removal & Replacement.

A grey square is used to indicate a most severe condition in need of repair by complete reconstruction.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

EXECUTIVE SUMMARY

THIS SURVEY IS FOCUSED ON THE FOLLOWING AREAS OF SIDEWALK MAINTENANCE

SIDEWALK CONDITION

Sidewalk condition is a measurement of physical distresses such as **cracks, heaving, settling and spalled surfaces.** Many of the older sidewalks are showing signs of spalling and cracking. Spalling is the result of environmental exposure of inferior workmanship or materials. Cracking is a sign of premature failure that is often the result of excessive loads from heavy construction equipment, settling due to poor trench compaction or heaving caused by tree roots.

SIDEWALK TRIP HAZARDS

Trip hazards are vertical faces that present the opportunity for the unaware or impaired person to catch their toe. **The trip faces that are between 1/2" and 2 ½"** are considered more dangerous than larger separations. Trips are most often repaired one of two ways: smaller trips are cut off and feathered back at ADA standards, larger trips are totally removed and replaced with new concrete.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

EXECUTIVE SUMMARY

Sidewalk Trip Hazards.
Sidewalk trip hazards are recorded and divided by the size of the vertical face exposed. We have grouped the surveyed hazards into the following three classes.

Hazard Classes

Less Severe (small)	Above 1/4" high to 1/2"
Severe (medium)	Above 1/2" high to 1"
Most Severe (large)	Above 1" high to 2 1/2"

Recommendation
We recommend the repair of trip hazards by saw cutting for all hazards Above ¼" to 2 ½" high to save cost and extend the useful life of the existing sidewalk. Larger trips (above 2 ½") and are best resolved by the removal and replacement of the entire panel.

The cutting of individual trip hazards can be scheduled to incrementally address the most hazardous areas first. The "remove and replace" work can follow the cutting of individual trip hazards to reduce the amount of reconstruction needed.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

EXECUTIVE SUMMARY

Sidewalk Condition Repairs
Repairs of smaller spalling and cracked areas require fill to remove the hazard. Larger spalling and cracked areas and larger heaved areas not repairable by saw cutting will require removal and replacement.

Sidewalk Reconstruction Repairs
Repairs requiring removal and replacement of entire sidewalks should be grouped into sizable projects focusing on specific neighborhoods with: proximity to points of concern, segments having trip hazards, future projects, major road maintenance, and coordination with utilities street repairs.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY

The sidewalk inspection survey for Zones 1 through 4 was performed late 2021 and early 2022.

A total of **2,402** existing sidewalks hazards were identified. **2,072** are trip hazards with changes in vertical elevation between panels of 3/8" or greater as specified by the Americans with Disabilities Act. Remaining are **319** Remove/Replace, **3** Tree hazards and **8** Patch Fills consisting of approximately **81,552** square feet in total.

Our survey includes the size, type, and location of each hazard, and recommended actions to be taken.

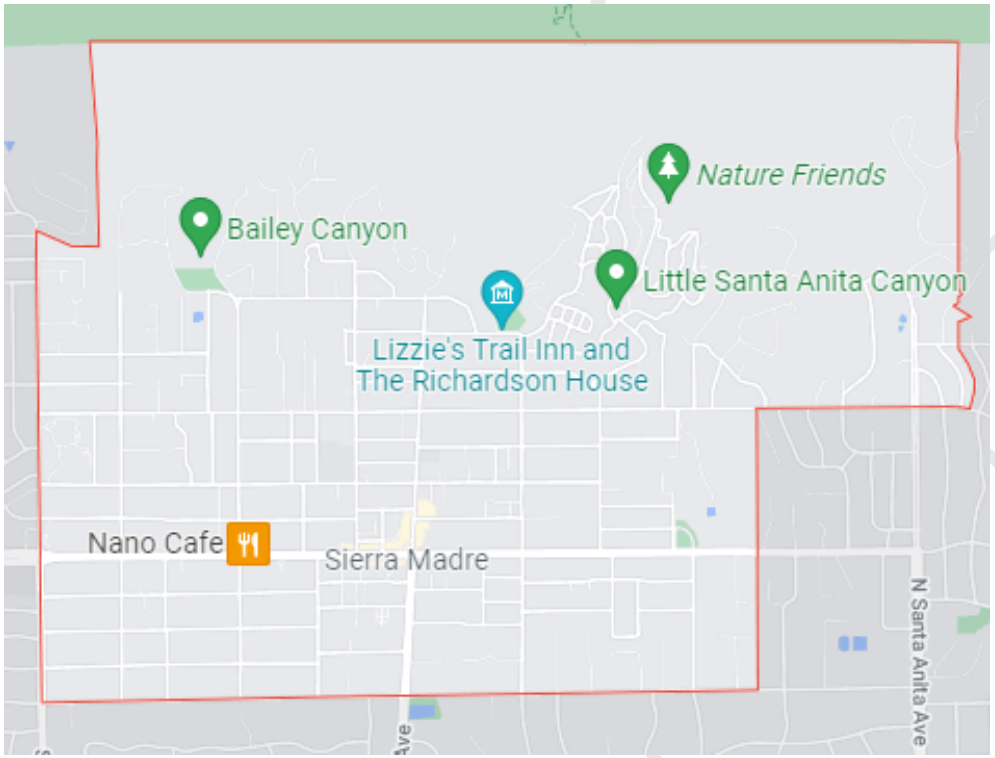
The City of Sierra Madre will realize substantial savings by having Precision Concrete Cutting remove sidewalk trip hazards between 3/8" and 2 1/2" high at a fraction of the cost of replacement and with superior results compared to grinding and asphalt patching. The work can be completed quickly with little disruption of foot traffic, and in full compliance with ADA and OSHA requirements.

Not only will the City of Sierra Madre significantly increase the safety of city walkways, you will save precious budget dollars by removing the risk of costly liability claims while extending the useful life of your existing sidewalks for many years.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

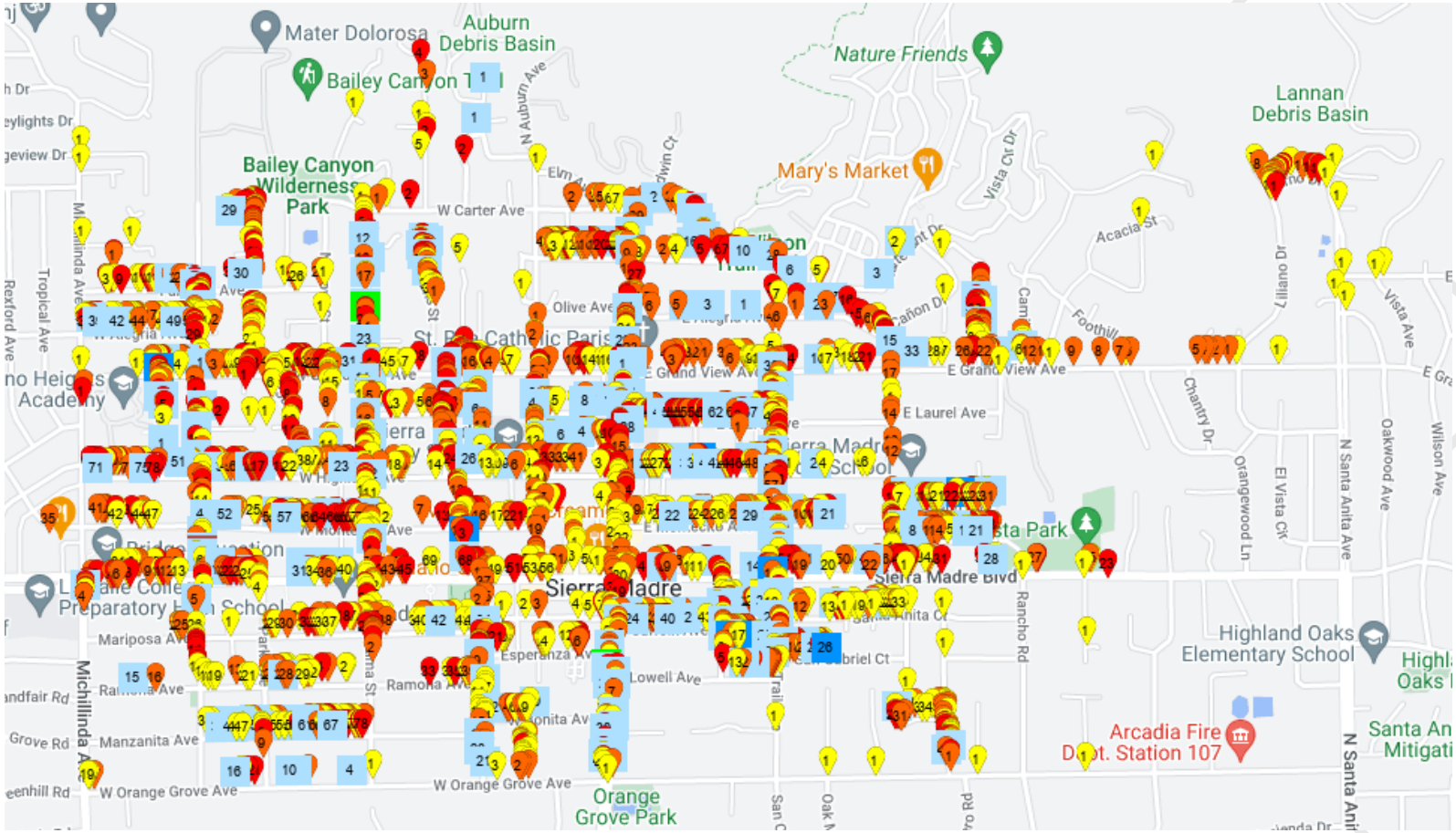
COMPLETED SURVEY AREA

Completed assessment area includes Zones 1 through 4 within the City of Sierra Madre sidewalks and driveway aprons.



PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ALL IDENTIFIED HAZARDS – ZONES 1 - 4



PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madra - All Zones													
LOCATION	HAZARD CLASS				CONDITION & RECOMMENDATION						AREA		RANK
Street	Size Small	Size Med	Size Large	Total Hazards	Tree Root Prune	Spall Crack Joint	Saw Cut	Remove Replace	SW^C	C^SW	Sq Ft	Inch Ft	By Severity
Zone 2	367	407	137	911	2	2	911	131	6	6	32,885	3,057	1
Zone 4	261	274	93	628	-	6	628	119	1		30,105	2,002	2
Zone 1	113	129	54	296	1	-	296	34	5	5	10,337	977	3
Zone 3	68	128	41	237	-	-	237	35	3	-	8,225	744	4
Totals	**809**	**938**	**325**	**2,072**	**3**	**8**	**2,072**	**319**	**15**	**11**	**81,552**	**6,780**	

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

CITY OF SIERRA MADRE ALL ZONES - TOTALS

ESTIMATED SAVINGS

Removal and replacement at an estimated cost ranging $10 - $25 Per Sq. Ft. will be significantly more expensive, time consuming and unnecessary. Precision Concrete Cutting will save you substantial cost by removing hazards at an average cost of $3.50 Per Sq. Ft.

ZONE	TOTAL # OF SQ. FEET FOR REPAIR	TOTAL # OF IDENTIFIED REPAIR LOCATIONS	TOTAL # OF SAW CUTS REPAIRS	TOTAL # OF REMOVE/REPLACE REPAIRS	TOTAL # OF SPALL/PATCHES REPAIRS	TOTAL # OF TREE/ROOT REPAIRS
Zone 1	10,337	331	296	34	0	1
Zone 2	32,885	1,046	911	131	2	2
Zone 3	8,225	272	237	35	0	0
Zone 4	30,105	753	628	119	6	0
TOTALS	**81,552**	**2,402**	**2,072**	**319**	**8**	**3**

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ZONE 1

The following pages are a breakup of additional detail for zone 1.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

CITY OF SIERRA MADRE - SURVEY AREA ZONE 1

The Sidewalk Assessment included the inspection of sidewalks and walkways in Zone 1 within the City of Sierra Madre. Public walkways and external driveway aprons along the following areas are included in the project:

- **Adams Street -** Grand View Ave. to End
- **Alegria Avenue -** Michillinda Ave. to End
- **Auburn Avenue -** Carter Ave. to End
- **Carter Avenue -** Auburn Ave. to Lima St.
- **Chaparrel Road -** Carter Ave. to End
- **Crestvale Drive -** Fairview Ave. to End
- **Deodar Circle -** Oak Crest Dr. to End
- **Edgeview Drive -** Michillinda Ave. to End
- **Fairview Avenue -** Michillinda Ave. to Grove St.
- **Fairview Terrace -** Fairview Ave. to End
- **Gatewood Lane -** Michillinda Ave. to End
- **Gatewood Terrace -** Gatewood Ln. to End
- **Grand View Avenue -** Lima St. to Hermosa Ave.
- **Grand View Avenue -** Michillinda Ave. to Sunnyside Ave.
- **Grand View Avenue -** Sunnyside Ave. to Lima St.
- **Grove Alley -** Grove St. to End
- **Grove Street -** Grand View Ave. to Carter Ave.
- **Hermosa Avenue -** Carter Ave. to Auburn Ave.
- **Key Vista Drive -** Sierra Keys Dr. to End
- **Lima Street -** Grand View Ave. to Carter Ave.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

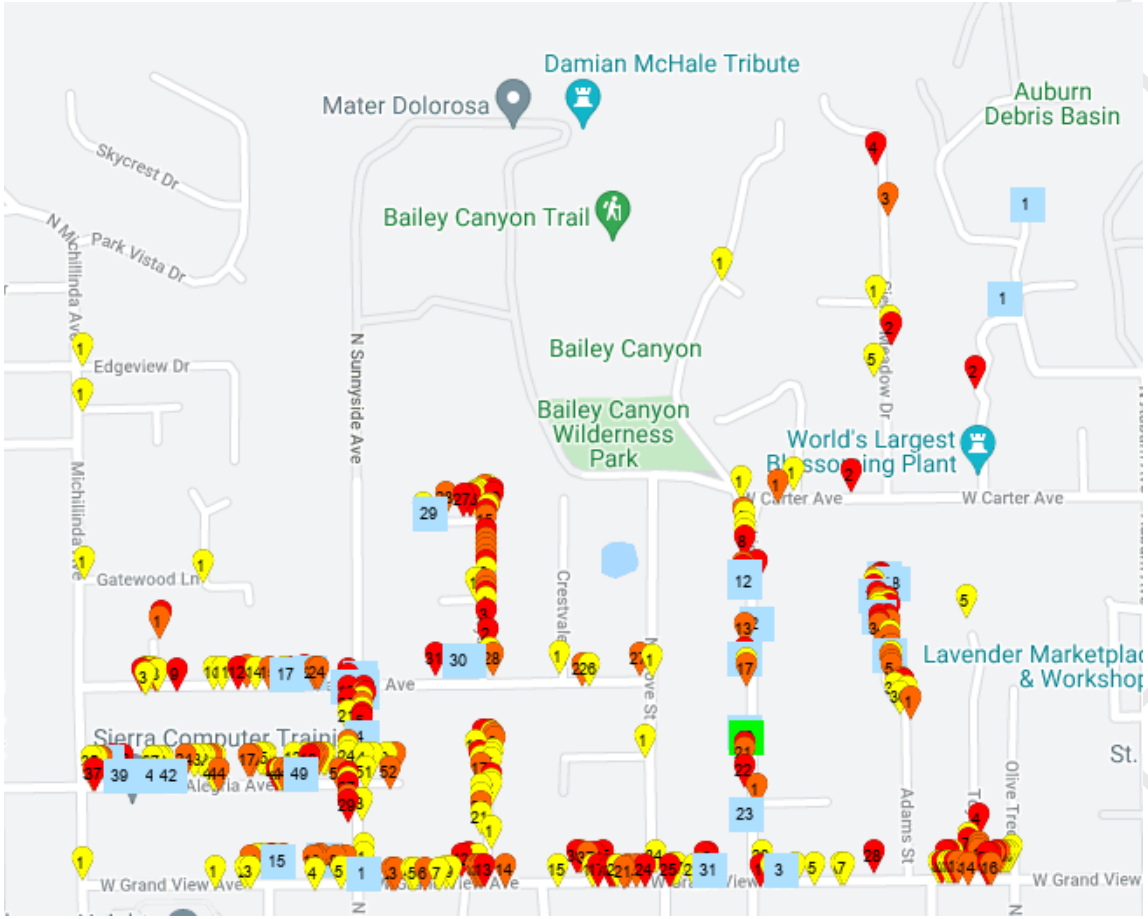
CITY OF SIERRA MADRE - SURVEY AREA ZONE 1

The Sidewalk Assessment included the inspection of sidewalks and walkways in Zone 1 within the City of Sierra Madre. Public walkways and external driveway aprons along the following areas are included in the project:

- **Michillinda Avenue -** Grand View Ave. to Edgeview Dr.
- **Michillinda Way -** Michillinda Ave. to End
- **Oak Crest Drive -** Carter Ave. to End
- **Olive Tree Lane -** Grand View Ave. to End
- **Sierra Keys Drive -** Fairview Ave. to End
- **Sierra Meadows Drive -** Carter Ave. to End
- **Sierra Woods Drive -** Grand View Ave. to End
- **Sunnyside Avenue -** Grand View Ave. to Fairview Ave.
- **Toyon Road -** Grand View Ave. to End
- **Wistaria Way -** Sierra Meadows Dr. to End

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ALL IDENTIFIED HAZARDS – ZONE 1



PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madra - Zone 1														
LOCATION		HAZARD CLASS				CONDITION & RECOMMENDATION						AREA		RANK
Street		Size Small	Size Med	Size Large	Total Hazards	Tree Root Prune	Spall Crack Joint	Saw Cut	Remove Replace	SW^C	C^SW	Sq Ft	Inch Ft	By Severity
Alegria Avenue	Michillinda Ave. to End	23	22	2	47	-	-	47	5	-	-	1,857	131	1
Grand View Avenue	Sunnyside Ave. to Lima St.	12	19	8	39	-	-	39	3	-	-	942	116	2
Adams Street	Grand View Ave. to End	9	14	8	31	-	-	31	5	-	-	667	81	3
Sierra Keys Drive	Fairview Ave. to End	8	13	7	28	-	-	28	1	-	-	497	76	4
Grand View Avenue	Lima St. to Hermosa Ave.	13	9	6	28	-	-	28	1	2	-	704	84	5
Fairview Avenue	Michillinda Ave. to Grove St.	10	13	4	27	-	-	27	4	-	3	1,702	117	6
Sunnyside Avenue	Grand View Ave. to Fairview Ave.	9	4	11	24	-	-	24	5	-	-	802	99	7
Sierra Woods Drive	Grand View Ave. to End	12	8	1	21	-	-	21	-	-	-	354	44	8
Grand View Avenue	Michillinda Ave. to Sunnyside Ave.	9	8	1	18	-	-	18	2	-	-	650	61	9
Lima Street	Grand View Ave. to Carter Ave.	4	10	2	16	1	-	16	6	-	-	1,209	69	10
Toyon Road	Grand View Ave. to End	2	3	2	7	-	-	7	-	-	1	149	26	11
Sierra Meadows Drive	Carter Ave. to End	2	2	1	5	-	-	5	-	2	-	208	24	12
Carter Avenue	Auburn Ave. to Lima St.	-	1	1	2	-	-	2	-	1	-	250	25	13
Fairview Terrace	Fairview Ave. to End	-	2	-	2	-	-	2	-	-	1	210	18	14
Hermosa Avenue	Carter Ave. to Auburn Ave.	-	1	-	1	-	-	1	1	-	-	100	6	15

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madra - Zone 1													
LOCATION		**HAZARD CLASS**				**CONDITION & RECOMMENDATION**						**AREA**	
Street		**Size Small**	**Size Med**	**Size Large**	**Total Hazards**	**Tree Root Prune**	**Spall Crack Joint**	**Saw Cut**	**Remove Replace**	**SW^C**	**C^SW**	**Sq Ft**	**Inch Ft**
Auburn Avenue	Carter Ave. to End	-	-	-	-	-	-	-	1	-	-	36	-
Chaparrel Road	Carter Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-
Crestvale Drive	Fairview Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-
Deodar Circle	Oak Crest Dr. to End	-	-	-	-	-	-	-	-	-	-	-	-
Edgeview Drive	Michillinda Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-
Gatewood Lane	Michillinda Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-
Gatewood Terrace	Gatewood Ln. to End	-	-	-	-	-	-	-	-	-	-	-	-
Grove Alley	Grove St. to End	-	-	-	-	-	-	-	-	-	-	-	-
Grove Street	Grand View Ave. to Carter Ave.	-	-	-	-	-	-	-	-	-	-	-	-
Key Vista Drive	Sierra Keys Dr. to End	-	-	-	-	-	-	-	-	-	-	-	-
Michillinda Avenue	Grand View Ave. to Edgeview Dr.	-	-	-	-	-	-	-	-	-	-	-	-
Michillinda Way	Michillinda Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-
Oak Crest Drive	Carter Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-
Olive Tree Lane	Grand View Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-
Wistaria Way	Sierra Meadows Dr. to End	-	-	-	-	-	-	-	-	-	-	-	-
Totals		**113**	**129**	**54**	**296**	**1**	**0**	**296**	**34**	**5**	**5**	**10,337**	**977**

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ZONE 2

The following pages are a breakup of additional detail for zone 2.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

CITY OF SIERRA MADRE - SURVEY AREA ZONE 2

The Sidewalk Assessment included the inspection of sidewalks and walkways in Zone 2 within the City of Sierra Madre. Public walkways and external driveway aprons along the following areas are included in the project:

- **Adams Street -** Grand View Ave. to Highland Ave.
- **Auburn Avenue -** Grand View Ave. to Sierra Madre Blvd.
- **Baldwin Avenue -** Grand View Ave. to Sierra Madre Blvd.
- **Baldwin Avenue -** Sierra Madre Blvd. to Orange Grove Ave.
- **Bonita Avenue -** Hermosa Ave. to Baldwin Ave.
- **Esperanza Avenue -** Hermosa Ave. to Baldwin Ave.
- **Grand View Avenue -** Hermosa Ave. to Baldwin Ave.
- **Grove Lane -** Sierra Madre Blvd. to Highland Ave.
- **Grove Street -** Grand View Ave. to Highland Ave.
- **Hermosa Avenue -** Grand View Ave. to Highland Ave.
- **Hermosa Avenue -** Sierra Madre Blvd. to Highland Ave.
- **Hermosa Avenue -** Sierra Madre Blvd. to Orange Grove Ave.
- **Highland Avenue -** Baldwin Ave. to Lima St.
- **Highland Avenue -** Lima St. to Michillinda Ave.
- **Ida May Lane -** Jameson Ct. to End
- **Jameson Court -** Grand View Ave. to Highland Ave.
- **Kersting Court -** Sierra Madre Blvd. to Baldwin Ave.
- **Laurel Avenue -** Auburn Ave. to Baldwin Ave.
- **Laurel Avenue -** Lima St. to Hermosa Ave.
- **Laurel Avenue -** Sunnyside Ave. to End

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

CITY OF SIERRA MADRE - SURVEY AREA ZONE 2

The Sidewalk Assessment included the inspection of sidewalks and walkways in Zone 2 within the City of Sierra Madre. Public walkways and external driveway aprons along the following areas are included in the project:

- **Lima Street -** Highland Ave. to Grand View Ave.
- **Lima Street -** Sierra Madre Blvd. to Highland Ave.
- **Lima Street -** Sierra Madre Blvd. to Orange Grove Ave.
- **Manzanita Avenue -** Hermosa Ave. to Michillinda Ave.
- **Mariposa Avenue -** Hermosa Ave. to Baldwin Ave.
- **Mariposa Avenue -** Hermosa Ave. to Michillinda Ave.
- **Michillinda Avenue -** Sierra Madre Blvd. to Grand View Ave.
- **Michillinda Avenue -** Sierra Madre Blvd. to Orange Grove Ave.
- **Montecito Avenue -** Auburn Ave. to Lima St.
- **Montecito Avenue -** Baldwin Ave. to Auburn Ave.
- **Montecito Avenue** - Lima St. to Michillinda Ave.
- **Montecito Court** - Windsor Ln. to Montecito Ave.
- **Old Oak Lane** - Orange Grove Ave. to End
- **Orange Grove Avenue (North)** - Baldwin Ave. to Michillinda Ave.
- **Park Avenue** - Orange Grove Ave. to Sierra Madre Blvd.
- **Romona Avenue** - Hermosa Ave. to Michillinda Ave.
- **Ross Place** - Mariposa Ave. to End
- **Sierra Madre Blvd.** - Michillinda Ave. to Baldwin Ave.
- **Sierra Woods Drive** - Grand View Ave. to End
- **Sunnyside Avenue** - Grand View Ave. to Highland Ave.

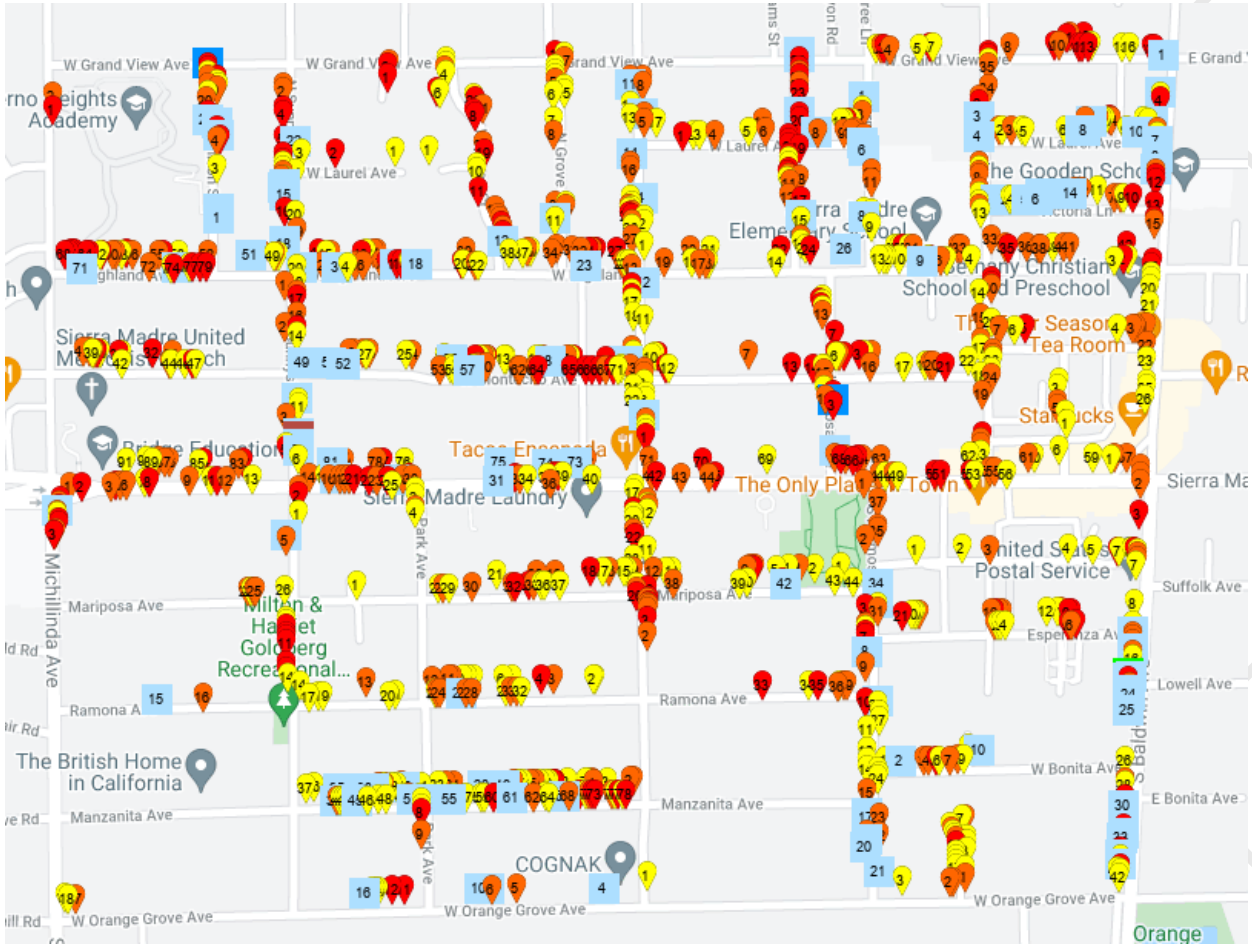
CITY OF SIERRA MADRE - SURVEY AREA ZONE 2

The Sidewalk Assessment included the inspection of sidewalks and walkways in Zone 2 within the City of Sierra Madre. Public walkways and external driveway aprons along the following areas are included in the project:

- **Sunnyside Avenue -** Highland Ave. to Sierra Madre Blvd.
- **Sunnyside Avenue -** Sierra Madre Blvd. to Orange Grove Ave.
- **Victoria Lane -** Auburn Ave. to Baldwin Ave.
- **Webster Way -** Bonita Ave. to End
- **Wilson Street -** Grand View Ave. to Highland Ave.
- **Windsor Lane -** Sierra Madre Blvd. to Montecito Ave.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ALL IDENTIFIED HAZARDS – ZONE 2



PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madra - Zone 2														
LOCATION		HAZARD CLASS				CONDITION & RECOMMENDATION						AREA		RANK
Street		Size Small	Size Med	Size Large	Total Hazards	Tree Root Prune	Spall Crack Joint	Saw Cut	Remove Replace	SW^C	C^SW	Sq Ft	Inch Ft	By Severity
Sierra Madre Blvd.	Michillinda Ave. to Baldwin Ave.	22	44	18	84	-	-	84	7	2	1	3,907	401	1
Highland Avenue	Lima St. to Michillinda Ave.	20	36	15	71	-	-	71	8	-	-	2,693	297	2
Montecito Avenue	Lima St. to Michillinda Ave.	24	31	9	64	-	-	64	9	-	-	2,315	195	3
Manzanita Avenue	Hermosa Ave. to Michillinda Ave.	35	22	5	62	-	-	62	16	-	-	1,552	152	4
Mariposa Avenue	Hermosa Ave. to Michillinda Ave.	21	18	4	43	-	-	43	1	-	-	993	114	5
Highland Avenue	Baldwin Ave. to Lima St.	18	19	3	40	-	-	40	2	-	-	1,414	124	6
Romona Avenue	Hermosa Ave. to Michillinda Ave.	18	17	2	37	-	-	37	2	1	-	1,164	100	7
Auburn Avenue	Grand View Ave. to Sierra Madre Blvd.	10	22	2	34	-	-	34	4	-	4	1,624	177	8
Baldwin Avenue (West Side)	Sierra Madre Blvd. to Orange Grove Ave.	11	13	4	28	1	-	28	13	1	-	1,564	94	9
Hermosa Avenue	Sierra Madre Blvd. to Orange Grove Ave.	11	14	2	27	-	-	27	10	-	-	1,213	73	10
Adams Street	Grand View Ave. to Highland Ave.	5	10	11	26	-	-	26	4	1	-	578	66	11
Lima Street	Sierra Madre Blvd. to Orange Grove Ave.	10	12	4	26	-	-	26	-	-	-	658	77	12
Lima Street	Highland Ave. to Grand View Ave.	10	11	2	23	-	-	23	4	-	-	850	63	13
Montecito Avenue	Auburn Ave. to Lima St.	9	8	5	22	-	-	22	-	-	-	550	76	14
Jameson Court	Grand View Ave. to Highland Ave.	6	8	7	21	-	-	21	2	-	-	803	130	15

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madra - Zone 2														
LOCATION		HAZARD CLASS				CONDITION & RECOMMENDATION						AREA		RANK
Street		Size Small	Size Med	Size Large	Total Hazards	Tree Root Prune	Spall Crack Joint	Saw Cut	Remove Replace	SW^C	C^SW	Sq Ft	Inch Ft	By Severity
Grand View Avenue	Hermosa Ave. to Baldwin Ave.	6	9	6	21	-	-	21	-	-	-	519	67	16
Esperanza Avenue	Hermosa Ave. to Baldwin Ave.	8	8	5	21	-	-	21	-	1	-	603	64	17
Baldwin Avenue (West Side)	Grand View Ave. to Sierra Madre Blvd.	10	7	4	21	-	-	21	5	-	-	1,843	92	18
Lima Street	Sierra Madre Blvd. to Highland Ave.	12	6	2	20	-	-	20	2	-	-	732	63	19
Old Oak Lane	Orange Grove Ave. to End	12	5	-	17	-	-	17	-	-	-	299	34	20
Grove Street	Grand View Ave. to Highland Ave.	10	7	-	17	-	-	17	1	-	-	414	35	21
Sunnyside Avenue	Grand View Ave. to Highland Ave.	5	6	5	16	-	-	16	6	-	-	575	77	22
Wilson Street	Grand View Ave. to Highland Ave.	5	7	4	16	-	1	16	5	-	-	800	56	23
Hermosa Avenue	Sierra Madre Blvd. to Highland Ave.	5	8	3	16	-	1	16	1	-	-	623	64	24
Laurel Avenue	Lima St. to Hermosa Ave.	7	8	1	16	-	-	16	1	-	-	259	26	25
Sunnyside Avenue	Highland Ave. to Sierra Madre Blvd.	7	6	2	15	1	-	15	5	-	-	830	63	26
Orange Grove Avenue (North)	Baldwin Ave. to Michillinda Ave.	6	7	2	15	-	-	15	4	-	-	579	39	27
Laurel Avenue	Auburn Ave. to Baldwin Ave.	9	5	1	15	-	-	15	5	-	-	650	36	28
Sunnyside Avenue	Sierra Madre Blvd. to Orange Grove Ave.	4	6	3	13	-	-	13	1	-	-	406	45	29
Mariposa Avenue	Hermosa Ave. to Baldwin Ave.	6	2	1	9	-	-	9	-	-	-	161	20	30

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madra - Zone 2														
LOCATION		HAZARD CLASS				CONDITION & RECOMMENDATION						AREA		RANK
Street		Size Small	Size Med	Size Large	Total Hazards	Tree Root Prune	Spall Crack Joint	Saw Cut	Remove Replace	SW^C	C^SW	Sq Ft	Inch Ft	By Severity
Park Avenue	Orange Grove Ave. to Sierra Madre Blvd.	6	2	1	9	-	-	9	-	-	-	180	23	31
Bonita Avenue	Hermosa Ave. to Baldwin Ave.	3	4	1	8	-	-	8	2	-	-	276	17	32
Victoria Lane	Auburn Ave. to Baldwin Ave.	3	4	1	8	-	-	8	7	-	-	170	15	33
Hermosa Avenue	Grand View Ave. to Highland Ave.	4	4	-	8	-	-	8	4	-	-	403	16	34
Montecito Avenue	Baldwin Ave. to Auburn Ave.	2	5	-	7	-	-	7	-	-	-	369	27	35
Windsor Lane	Sierra Madre Blvd. to Montecito Ave.	4	2	-	6	-	-	6	-	-	-	61	8	36
Laurel Avenue	Sunnyside Ave. to End	2	-	1	3	-	-	3	-	-	-	75	9	37
Sierra Woods Drive	Grand View Ave. to End	-	2	1	3	-	-	3	-	-	-	48	10	38
Michillinda Avenue	Sierra Madre Blvd. to Grand View Ave.	-	2	-	2	-	-	2	-	-	1	116	12	39
Ida May Lane	Jameson Ct. to End	1	-	-	1	-	-	1	-	-	-	16	2	40
Grove Lane	Sierra Madre Blvd. to Highland Ave.	-	-	-	-	-	-	-	-	-	-	-	-	41
Kersting Court	Sierra Madre Blvd. to Baldwin Ave.	-	-	-	-	-	-	-	-	-	-	-	-	42
Michillinda Avenue	Sierra Madre Blvd. to Orange Grove Ave.	-	-	-	-	-	-	-	-	-	-	-	-	43
Montecito Court	Windsor Ln. to Montecito Ave.	-	-	-	-	-	-	-	-	-	-	-	-	44
Ross Place	Mariposa Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	45
Webster Way	Bonita Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	46
Totals		367	407	137	911	2	2	911	131	6	6	32,885	3,057	

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ZONE 3

The following pages are a breakup of additional detail for zone 3.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

CITY OF SIERRA MADRE - SURVEY AREA ZONE 3

The Sidewalk Assessment included the inspection of sidewalks and walkways in Zone 3 within the City of Sierra Madre. Public walkways and external driveway aprons along the following areas are included in the project:

- **Acacia Street -** Grand View Ave. to End
- **Alegria Avenue -** Auburn Ave. to Baldwin Ave.
- **Alegria Avenue -** Mountain Trail Ave. to Baldwin Ave.
- **Alegria Avenue -** Mountain Trail Ave. to Grand View Ave.
- **Arno Drive -** Liliano Dr. to Santa Anita Ave.
- **Arno Drive -** Santa Anita Ave. to End
- **Auburn Avenue -** Carter Ave. to Grand View Ave.
- **Auburn Lane -** Aubern Ave. to Auburn Ave.
- **Baldwin Avenue -** Carter Ave. to Grand View Ave.
- **Camillo Street -** Grand View Ave. to End
- **Canon Drive -** Canon Ave. to Sturtevant Dr.
- **Carter Avenue -** Auburn Ave. to Baldwin Ave.
- **Carter Avenue -** Baldwin Ave. to Mira Monte Ave.
- **Elkins Avenue -** Santa Anita Ave. to End
- **Elm Avenue -** Auburn Ave. to Carter Ave.
- **Foothill Avenue -** Grand View Ave. to End
- **Grand View Avenue -** Auburn Ave. to City Limits
- **Kaia Lane -** Arno Dr. to End
- **Liliano Drive -** Stonehouse Rd. to End
- **Liliano Place -** Grand View Ave. to End

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

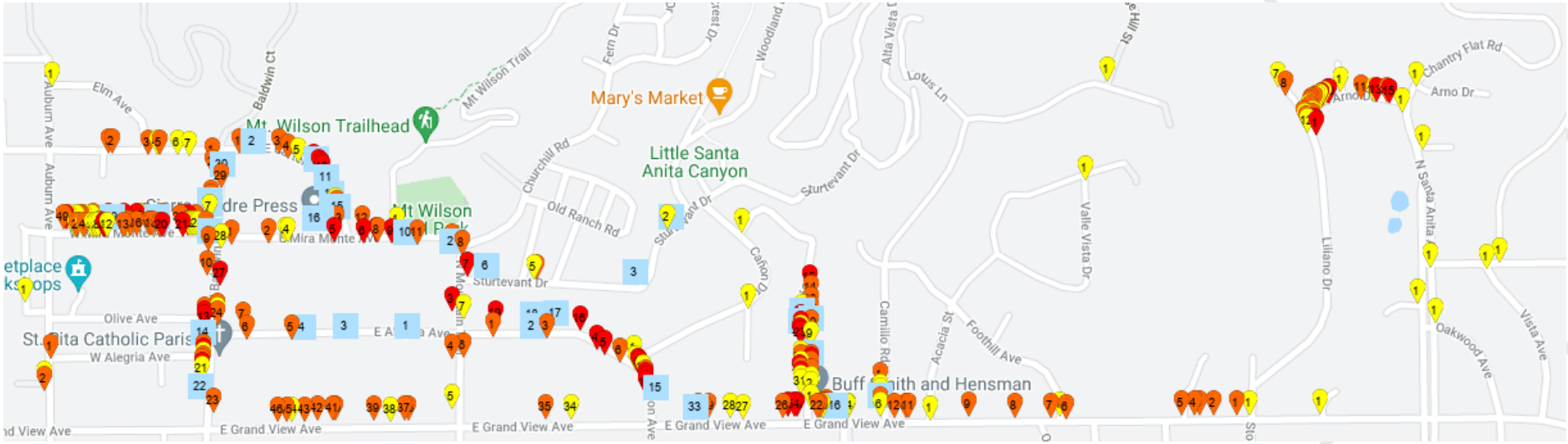
CITY OF SIERRA MADRE - SURVEY AREA ZONE 3

The Sidewalk Assessment included the inspection of sidewalks and walkways in Zone 3 within the City of Sierra Madre. Public walkways and external driveway aprons along the following areas are included in the project:

- **Los Rocas Drive -** Canon Dr. to Sycamore Pl.
- **Mira Monte Avenue -** Auburn Ave. to Baldwin Ave.
- **Mira Monte Avenue -** Baldwin Ave. to Mountain Trail Ave.
- **Mountain Trail Avenue -** Mira Monte Ave. to Grand View Ave.
- **Mt. Wilson Trail -** Mira Monte Ave. to End
- **Oakwood Avenue -** Santa Anita Ave. to Grand View Ave.
- **Oakwood Place -** Santa Anita Ave. to End
- **Olive Avenue -** Auburn Ave. to Baldwin Ave.
- **Santa Anita Avenue -** Arno Dr. to Grand View Ave.
- **Stonehouse Road -** Grand View Ave. to End
- **Sturtevant Drive -** Mountain Trail Ave. to Alta Vista Dr.
- **Sunrise Hill Street -** Camillo St. to End
- **Sycamore Place -** Grand View Ave. to Los Rocas Dr.
- **Theresa Lane -** Canon Dr. to End
- **Valle Vista Drive -** Acacia St. to End
- **Via Granate Street -** Santa Anita Ave. to End
- **Vista Avenue -** Elkins Ave. to End
- **Vista Avenue -** Elkins Ave. to Grand View Ave.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ALL IDENTIFIED HAZARDS – ZONE 3



PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madra - Zone 3														
LOCATION		HAZARD CLASS				CONDITION & RECOMMENDATION						AREA		RANK
Street		Size Small	Size Med	Size Large	Total Hazards	Tree Root Prune	Spall Crack Joint	Saw Cut	Remove Replace	SW^C	C^SW	Sq Ft	Inch Ft	By Severity
Mira Monte Avenue	Auburn Ave. to Baldwin Ave.	18	23	6	47	-	-	47	2	-	-	1,298	138	1
Grand View Avenue	Auburn Ave. to City Limits	8	33	3	44	-	-	44	2	-	-	1,141	126	2
Sycamore Place	Grand View Ave. to Los Rocas Dr.	10	11	6	27	-	-	27	4	1	-	818	78	3
Baldwin Avenue	Carter Ave. to Grand View Ave.	5	15	4	24	-	-	24	6	-	-	1,278	96	4
Alegria Avenue	Mountain Trail Ave. to Grand View Ave.	2	6	7	15	-	-	15	4	-	-	736	59	5
Arno Drive	Liliano Dr. to Santa Anita Ave.	4	7	4	15	-	-	15	-	-	-	249	39	6
Mira Monte Avenue	Baldwin Ave. to Mountain Trail Ave.	2	8	3	13	-	-	13	3	-	-	675	42	7
Liliano Drive	Stonehouse Rd. to End	5	5	2	12	-	-	12	-	1	-	212	33	8
Carter Avenue	Baldwin Ave. to Mira Monte Ave.	2	4	4	10	-	-	10	5	-	-	525	49	9
Mountain Trail Avenue	Mira Monte Ave. to Grand View Ave.	2	4	1	7	-	-	7	1	-	-	275	22	10
Carter Avenue	Auburn Ave. to Baldwin Ave.	3	4	-	7	-	-	7	-	-	-	175	17	11
Camillo Street	Grand View Ave. to End	3	2	-	5	-	-	5	1	-	-	216	15	12
Alegria Avenue	Mountain Trail Ave. to Baldwin Ave.	1	3	-	4	-	-	4	3	-	-	325	9	13
Sturtevant Drive	Mountain Trail Ave. to Alta Vista Dr.	1	1	1	3	-	-	3	4	-	-	172	10	14
Auburn Avenue	Carter Ave. to Grand View Ave.	1	1	-	2	-	-	2	-	-	-	50	5	15
Santa Anita Avenue	Arno Dr. to Grand View Ave.	1	-	-	1	-	-	1	-	-	-	16	2	16
Olive Avenue	Auburn Ave. to Baldwin Ave.	-	1	-	1	-	-	1	-	1	-	64	6	17
Acacia Street	Grand View Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	18
Alegria Avenue	Auburn Ave. to Baldwin Ave.	-	-	-	-	-	-	-	-	-	-	-	-	19

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madra - Zone 3														
LOCATION		HAZARD CLASS				CONDITION & RECOMMENDATION						AREA		RANK
Street		Size Small	Size Med	Size Large	Total Hazards	Tree Root Prune	Spall Crack Joint	Saw Cut	Remove Replace	SW^C	C^SW	Sq Ft	Inch Ft	By Severity
Arno Drive	Santa Anita Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	20
Auburn Lane	Aubern Ave. to Auburn Ave.	-	-	-	-	-	-	-	-	-	-	-	-	21
Canon Drive	Canon Ave. to Sturtevant Dr.	-	-	-	-	-	-	-	-	-	-	-	-	22
Elkins Avenue	Santa Anita Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	23
Elm Avenue	Auburn Ave. to Carter Ave.	-	-	-	-	-	-	-	-	-	-	-	-	24
Foothill Avenue	Grand View Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	25
Kaia Lane	Arno Dr. to End	-	-	-	-	-	-	-	-	-	-	-	-	26
Liliano Place	Grand View Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	27
Los Rocas Drive	Canon Dr. to Sycamore Pl.	-	-	-	-	-	-	-	-	-	-	-	-	28
Mt. Wilson Trail	Mira Monte Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	29
Oakwood Avenue	Santa Anita Ave. to Grand View Ave.	-	-	-	-	-	-	-	-	-	-	-	-	30
Oakwood Place	Santa Anita Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	31
Stonehouse Road	Grand View Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	32
Sunrise Hill Street	Camillo St. to End	-	-	-	-	-	-	-	-	-	-	-	-	33
Theresa Lane	Canon Dr. to End	-	-	-	-	-	-	-	-	-	-	-	-	34
Valle Vista Drive	Acacia St. to End	-	-	-	-	-	-	-	-	-	-	-	-	35
Via Granate Street	Santa Anita Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	36
Vista Avenue	Elkins Ave. to End	-	-	-	-	-	-	-	-	-	-	-	-	37
Vista Avenue	Elkins Ave. to Grand View Ave.	-	-	-	-	-	-	-	-	-	-	-	-	38
Totals		**68**	**128**	**41**	**237**	**0**	**0**	**237**	**35**	**3**	**0**	**8,225**	**744**	

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ZONE 4

The following pages are a breakup of additional detail for zone 4.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

CITY OF SIERRA MADRE - SURVEY AREA ZONE 4

The Sidewalk Assessment included the inspection of sidewalks and walkways in Zone 4 within the City of Sierra Madre. Public walkways and external driveway aprons along the following areas are included in the project:

- **Baldwin Avenue -** Orange Grove Ave. to Grand View Ave.
- **Bonita Avenue -** Baldwin Ave. to End
- **Bonita Avenue -** Mountain Trail Ave. to End
- **Canon Avenue -** Orange Grove Ave. to End
- **Canon Avenue -** Sierra Madre Blvd. to Grand View Ave.
- **Canon Place -** Santa Anita Ct. to End
- **Coburn Avenue -** Sierra Madre Blvd. to End
- **Colony Drive -** Fane St. to Santa Anita Ct.
- **Fane Street -** Holdman Ave. to Colony Dr.
- **Gabriel Court -** Sierra Pl. to Mountain Trail Ave.
- **Grand View Avenue -** Baldwin Ave. to City Limits
- **Highland Avenue -** Canon Ave. to Coburn Ave.
- **Highland Avenue -** Mountain Trail Ave. to Baldwin Ave.
- **Highland Avenue -** Mountain Trail Ave. to Canon Ave.
- **Holdman Avenue -** Fane St. to Sierra Madre Blvd.
- **Laurel Avenue -** Canon Ave. to Sycamore Pl.
- **Laurel Avenue -** Mountain Trail Ave. to Baldwin Ave.
- **Laurel Avenue -** Mountain Trail Ave. to Canon Ave.
- **Lowell Avenue -** Mountain Trail Ave. to Baldwin Ave.
- **Merrill Avenue -** Highland Ave. to Laurel Ave.
- **Monte Vista Lane -** Orange Grove Ave. to End
- **Montecito Avenue -** Canon Ave. to Coburn Ave.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

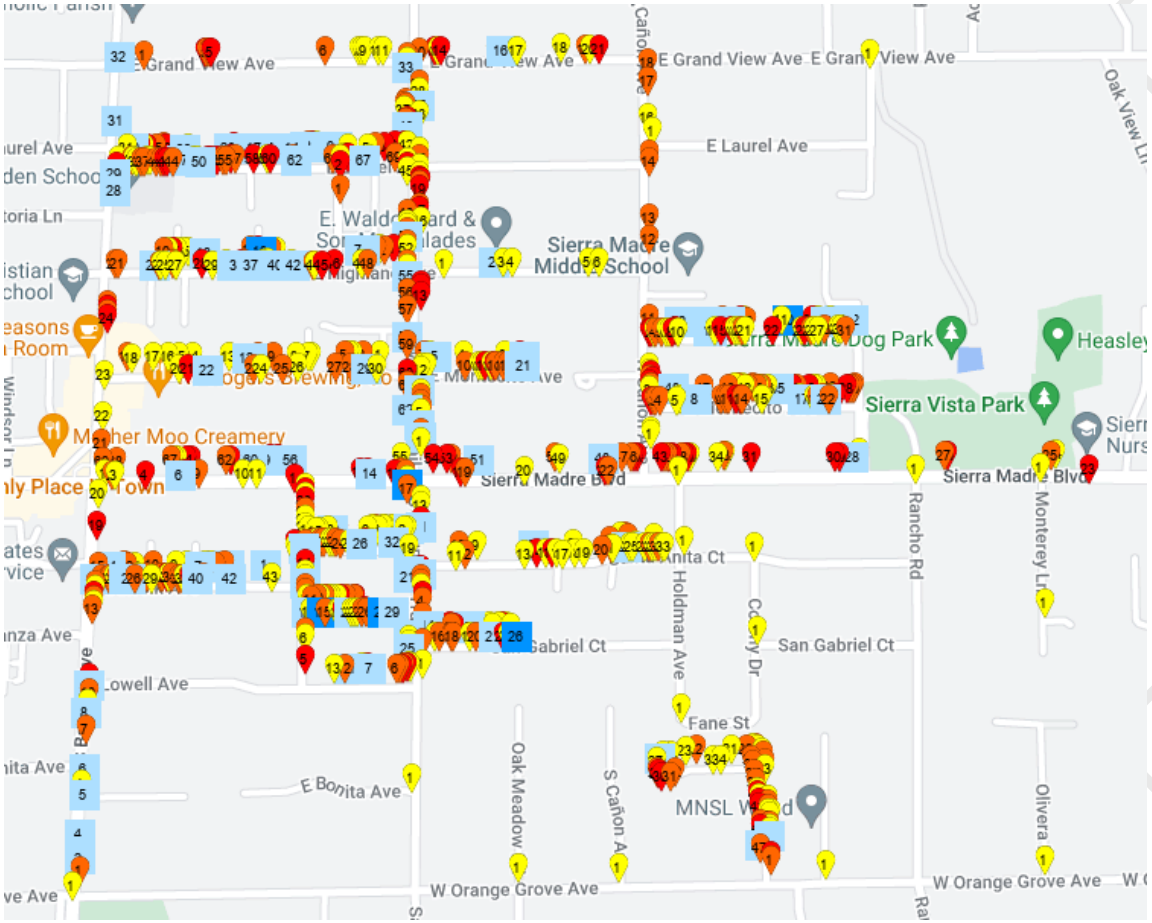
CITY OF SIERRA MADRE - SURVEY AREA ZONE 4

The Sidewalk Assessment included the inspection of sidewalks and walkways in Zone 4 within the City of Sierra Madre. Public walkways and external driveway aprons along the following areas are included in the project:

- **Montecito Avenue -** Mountain Trail Ave. to Baldwin Ave.
- **Montecito Avenue -** Mountain Trail Ave. to End
- **Monterey Lane -** Sierra Madre Blvd. to End
- **Monterey Place -** Monterey Ln. to End
- **Mountain Trail Avenue -** Orange Grove Ave. to Sierra Madre Blvd.
- **Mountain Trail Avenue -** Sierra Madre Blvd. to Grand View Ave.
- **Oak Meadow Place -** Santa Anita Ct. to End
- **Oak Meadow Road -** Orange Grove Ave. to End
- **Olivera Lane -** Orange Grove Ave. to End
- **Orange Grove Avenue -** Baldwin Ave. to City Limits
- **Rancho Road -** Sierra Madre Blve. To Orange Grove
- **San Gabriel Court -** Colony Dr. to Rancho Rd.
- **San Gabriel Court -** Mountain Trail Ave. to Holdman Ave.
- **Santa Anita Court -** Holdman Ave. to Mountain Trail Ave.
- **Santa Anita Court -** Holdman Ave. to Rancho Rd.
- **Santa Anita Court -** Sierra Pl. to Mountain Trail Ave.
- **Sierra Madre Blvd. -** Baldwin Ave. to City Limits
- **Sierra Place -** Sierra Madre Blvd. to Lowell Ave.
- **Suffolk Avenue -** Sierra Pl. to Baldwin Ave.
- **Sycamore Place -** Grand View Ave. to End
- **Windwood Lane -** Orange Grove Ave. to End

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ALL IDENTIFIED HAZARDS – ZONE 4



PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madre - Zone 4															
AREA	LOCATION		HAZARD CLASS				CONDITION & RECOMMENDATION AREAS					FOOTAGE		RANK	
Zone	Street		Size Small	Size Med	Size Large	Total Saw Cuts	Tree Root Prune	Spall Crack Joint	Total Saw Cut	Remove Replace	SW^C	SQ FT	Inch FT	By Severity	Total Hazards
4	**Sierra Madre Blvd.**	Baldwin Ave. to City Limits	13	32	16	61	-	-	61	8	-	3,167	251	1	69
4	**Laurel Avenue**	Mountain Trail Ave. to Baldwin Ave.	18	25	13	56	-	-	56	13	1	3,593	257	2	69
4	**Mountain Trail Avenue**	Sierra Madre Blvd. to Grand View Ave.	19	24	8	51	-	-	51	11	-	2,333	165	3	62
4	**Montecito Avenue**	Canon Ave. to Coburn Ave.	13	24	6	43	-	-	43	5	-	1,291	126	4	48
4	**Windwood Lane**	Orange Grove Ave. to End	18	22	3	43	-	-	43	4	-	1,202	115	5	47
4	**Highland Avenue**	Canon Ave. to Coburn Ave.	20	12	8	40	-	1	40	11	-	2,245	136	6	52
4	**Highland Avenue**	Mountain Trail Ave. to Baldwin Ave.	17	14	7	38	-	1	38	9	-	1,894	129	7	48
4	**Suffolk Avenue**	Sierra Pl. to Baldwin Ave.	12	20	1	33	-	-	33	10	-	1,335	93	8	43
4	**Santa Anita Court**	Holdman Ave. to Mountain Trail Ave.	19	12	-	31	-	-	31	2	-	512	57	9	33
4	**Santa Anita Court**	Sierra Pl. to Mountain Trail Ave.	17	10	2	29	-	-	29	3	-	560	52	10	32
4	**Montecito Avenue**	Mountain Trail Ave. to Baldwin Ave.	16	9	1	26	-	-	26	4	-	1,324	91	11	30
4	**Gabriel Court**	Sierra Pl. to Mountain Trail Ave.	12	10	2	24	-	2	24	3	-	539	60	12	29
4	**Baldwin Avenue**	Orange Grove Ave. to Grand View Ave.	6	11	4	21	-	-	21	11	-	3,674	107	13	32
4	**San Gabriel Court**	Mountain Trail Ave. to Holdman Ave.	11	6	4	21	-	1	21	4	-	768	64	14	26
4	**Sierra Place**	Sierra Madre Blvd. to Lowell Ave.	9	6	5	20	-	-	20	6	-	416	54	15	26

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madre - Zone 4															
AREA	LOCATION		HAZARD CLASS				CONDITION & RECOMMENDATION AREAS					FOOTAGE		RANK	
Zone	Street		Size Small	Size Med	Size Large	Total Saw Cuts	Tree Root Prune	Spall Crack Joint	Total Saw Cut	Remove Replace	SW^C	SQ FT	Inch FT	By Severity	Total Hazards
4	**Grand View Avenue**	Baldwin Ave. to City Limits	10	6	4	20	-	-	20	1	-	550	55	16	21
4	**Mountain Trail Avenue**	Orange Grove Ave. to Sierra Madre Blvd	9	6	3	18	-	1	18	7	-	2,904	37	17	26
4	**Canon Avenue**	Sierra Madre Blvd. to Grand View Ave.	6	10	2	18	-	-	18	-	-	523	54	18	18
4	**Montecito Avenue**	Mountain Trail Ave. to End	8	8	1	17	-	-	17	4	-	600	45	19	21
4	**Lowell Avenue**	Mountain Trail Ave. to Baldwin Ave.	3	5	3	11	-	-	11	2	-	350	38	20	13
4	**Highland Avenue**	Mountain Trail Ave. to Canon Ave.	5	-	-	5	-	-	5	1	-	275	9	21	6
4	**Merrill Avenue**	Highland Ave. to Laurel Ave.	-	2	-	2	-	-	2	-	-	50	5	22	2
4	**Bonita Avenue**	Baldwin Ave. to End	-	-	-	-	-	-	-	-	-	-	-	23	-
4	**Bonita Avenue**	Mountain Trail Ave. to End	-	-	-	-	-	-	-	-	-	-	-	24	-
4	**Canon Avenue**	Orange Grove Ave. to End	-	-	-	-	-	-	-	-	-	-	-	25	-
4	**Canon Place**	Santa Anita Ct. to End	-	-	-	-	-	-	-	-	-	-	-	26	-
4	**Coburn Avenue**	Sierra Madre Blvd. to End	-	-	-	-	-	-	-	-	-	-	-	27	-
4	**Colony Drive**	Fane St. to Santa Anita Ct.	-	-	-	-	-	-	-	-	-	-	-	28	-
4	**Fane Street**	Holdman Ave. to Colony Dr.	-	-	-	-	-	-	-	-	-	-	-	29	-
4	**Holdman Avenue**	Fane St. to Sierra Madre Blvd.	-	-	-	-	-	-	-	-	-	-	-	30	-

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

SIDEWALK ASSESSMENT SUMMARY BY SEVERITY

City of Sierra Madre - Zone 4																
AREA	LOCATION		HAZARD CLASS				CONDITION & RECOMMENDATION AREA					FOOTAGE		RANK	
Zone	Street		Size Small	Size Med	Size Large	Total Saw Cuts	Tree Root Prune	Spall Crack Joint	Total Saw Cut	Remove Replace	SW^C	SQ FT	Inch FT	By Severity	Total Hazards
4	**Laurel Avenue**	Canon Ave. to Sycamore Pl.	-	-	-	-	-	-	-	-	-	-	-	31	-
4	**Laurel Avenue**	Mountain Trail Ave. to Canon Ave.	-	-	-	-	-	-	-	-	-	-	-	32	-
4	**Monte Vista Lane**	Orange Grove Ave. to End	-	-	-	-	-	-	-	-	-	-	-	33	-
4	**Monterey Lane**	Sierra Madre Blvd. to End	-	-	-	-	-	-	-	-	-	-	-	34	-
4	**Monterey Place**	Monterey Ln. to End	-	-	-	-	-	-	-	-	-	-	-	35	-
4	**Oak Meadow Place**	Santa Anita Ct. to End	-	-	-	-	-	-	-	-	-	-	-	36	-
4	**Oak Meadow Road**	Orange Grove Ave. to End	-	-	-	-	-	-	-	-	-	-	-	37	-
4	**Olivera Lane**	Orange Grove Ave. to End	-	-	-	-	-	-	-	-	-	-	-	38	-
4	**Orange Grove Avenue**	Baldwin Ave. to City Limits	-	-	-	-	-	-	-	-	-	-	-	39	-
4	**Rancho Road**	Sierra Madre Blve. To Orange Grove	-	-	-	-	-	-	-	-	-	-	-	40	-
4	**San Gabriel Court**	Colony Dr. to Rancho Rd.	-	-	-	-	-	-	-	-	-	-	-	41	-
4	**Santa Anita Court**	Holdman Ave. to Rancho Rd.	-	-	-	-	-	-	-	-	-	-	-	42	-
4	**Sycamore Place**	Grand View Ave. to End	-	-	-	-	-	-	-	-	-	-	-	43	-
	Totals		**261**	**274**	**93**	**628**	**-**	**6**	**628**	**119**	**1**	**30,105**	**2,002**		**753**

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

ABOUT PRECISION CONCRETE CUTTING

Precision Concrete Cutting uses proprietary and patented cutting technology to repair trip hazards.

Our work is guaranteed to offer the following benefits:

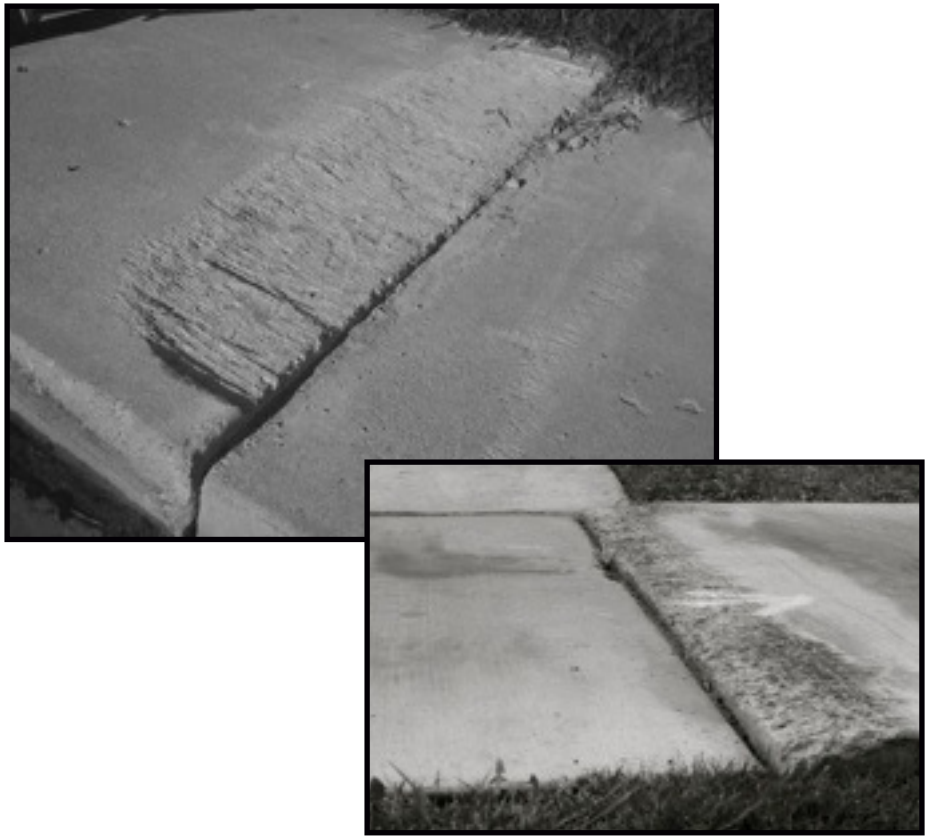
- Gentle ADA compliant slope
- Exceed the OSHA Standard for Slip Resistance (Co-Efficient of Friction)
- Full Edge-to-Edge Repair
- Detailed Cleaning & Recycle of Removed Concrete
- Detailed Audit-able Invoice

As a member of the U.S. Green Building Council (USGBC) we are proud of the fact that we reduce the impact to landfills and the environment as a result of our service. Removing and replacing 469 panels would result in approximately 278 tons of concrete being removed (average panel weight of 1,185 pounds). Using Precision Concrete Cutting resulted in 2,345 pounds or 1.17 tons of concrete removed and recycled.

PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

WHY WE DON'T GRIND

- Grinding often damages the concrete (breaks edges, knocks out aggregate, scars adjacent panels, and creates micro cracks).
- Often unsightly (leaves a rough, uneven scarring)
- Difficult to comply with the ADA slope requirements
- Has no cost advantage
- Unable to remove hazards next to objects
- Hard to use on small trip hazards (under 3/8") and larger trip hazards (over 1 inch)
- Very slow process and generates lots of dust



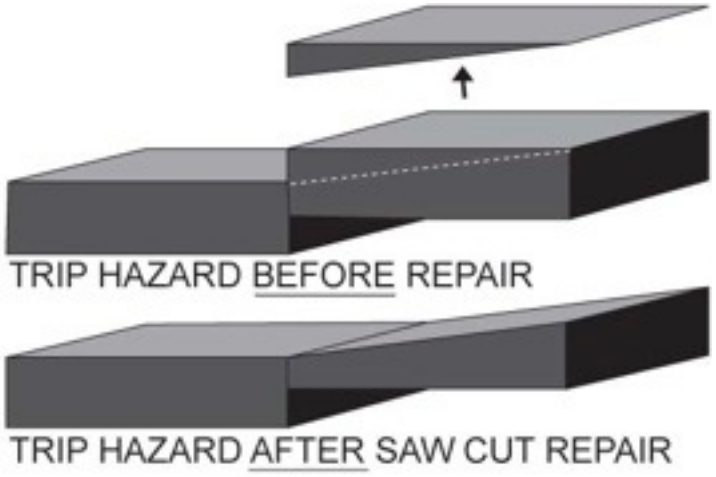
PRECISION CONCRETE CUTTING
Trip Hazard Removal Specialists

PRECISION CONCRETE CUTTING REPAIRS

PRECISION CONCRETE CUTTING DIFFERENCE

1) Three measurements will be taken of every hazard:
   a) Height[1] -- the highest point of the hazard
   b) Height[2] -- the lowest point of the hazard
   c) Length
2) Hazards will be removed from the full length of the panel (full edge-to-edge repair);
3) Sidewalks will be repaired at a slope of 1:8, in compliance with ADA requirements;
4) Handicap ramps or special areas will be repaired at a slope of 1:12, in compliance with ADA requirements;
5) Debris from repaired areas will be collected and removed;
6) A dust abatement system will be used during all repair operations;
   a) The repaired area will be smooth and uniform with a coefficient of friction exceeding OSHA requirements for public walkways;
7) A detailed, audit-able invoice will be presented for every repair.

If there are any trip hazards on this bid that you **do not** want cut, we can remove them



Contact: Ron Durna
13089 Peyton Dr. #C235
Chino Hills CA 91709
Office: (909) 539-7740
socalpcc@safesidewalks.com

CONTACT US

Precision Concrete Cutting

Ron Durna
Office (909) 539-7740

www.socalpcc@safesidewalks.com
www.safesidewalks.com