Street Pavement & Sidewalk Repair Programs

December 6, 2022
Presentation Focus

• Street pavement and sidewalk repair projects completed by City crews
  – Napa Neighborhood Street and Sidewalk Program

• Upcoming Capital Improvement Projects
  – Engineering staff design, contractor construction
Key Challenges

• Infrastructure Needs

• Staffing impacts from COVID
  – Experienced over 50% vacancy level in CIP engineering group and 30% vacancy on streets crews
  – Hiring, time for on-boarding, employee training, gaining experience on the job

• Supply Chain
  – Materials and equipment shortages
  – Delays
Transportation Infrastructure Investments

• Storm Drains
  – Condition assessments continue, cleaning
  – Example of failed sections: Oak Street, Dry Creek, Gordon/Plass

• Sidewalks
  – Displacements and gaps

• Streets
  – Increased vehicle weights/volumes, aging, utilities

• Traffic Safety
  – Local Roadway Safety Plan (grants), Bike/Pedestrian Plans Implementation, Traffic Calming Update
Trower at Dry Creek
Oak Street Storm Drain
Pedestrian Plan
Maps existing sidewalk gaps

Gap examples in this one area:
• Westwood Neighborhood
• Browns Valley Road
• W. Lincoln

Older developments did not always provide sidewalk, new development required to construct sidewalks

This one section of town includes $10M of need for gaps (not including sidewalk repairs needed)
Staffing Impacts/Changes

- 50% of Public Works staff new to their roles since start of COVID
  - 12 currently vacant full-time positions (14%)
  - 7 internal promotions (10%)
  - 23 new hires (27%)
- Significant impacts for Street Work
  - Capital Project Engineering: 7 of 12 total employees new to their position
  - Construction Management: 6 of 7 total employees new to their position
  - Streets Maintenance 10 of 23 total employees new to their position
Public Works Org Chart

Public Works Director

Deputy Public Works Director – Engineering
- Engineering
  - Service Civil Engineer
  - Parson Engineering
    - Assoc. Civil Eng.
    - Assoc. Civil Eng., Traffic
    - Assist Engineer
    - Assoc. Engineer (Full)
    - Assist Engineer
    - Junior Engineer
    - Engineering Asst.
    - Engineering Asst.
    - Sr. Eng. Aide
    - Engineering Aide
  - Traffic
    - Supervising Eng. Asst.
    - Engineering Asst.
    - Engineering Aide
    - P/T Intern (Vacant)
  - Property Management
    - Property Analyst II

Development Engineering
- Senior Civil Engineer
- Construction Engineering
  - Assoc. Engineer
  - Sr. Eng. Aide
  - Eng. Aide
  - P/T Intern (Vacant)

Construction
- Construction Inspectors
  - Constr. Inspector II
  - Constr. Inspector I
  - Constr. Inspector

Administrative Services Manager
- CSR Admin Support
  - Maint. Analyst II
  - Admin. Secretary
  - Office Asst. II
  - P/T Office Asst. (Vacant)

Corp Yard Admin Support
- Maint. Analyst II
  - Sr. Office Asst.
  - Office Asst. II

Operations Manager

Operations Engineering
- Operations Engineering Asst.
  - P/T Intern

General Services Superintendent
- Streets/Paving
  - Shop Supervisor III
  - Equip. Mgr.
  - Maint. Worker III
  - Maint. Worker II
  - Maint. Worker
  - P/T Seasonal Laborer (Vacant)

Electrical
- Electrical Supervisor
  - Electrician III
  - Electrician II
  - Electrician I

Facilities
- Maintenance
  - Maint. Worker III
  - Maint. Worker II
  - Maint. Worker

12 Vacant Full Time Positions (14%)
23 New Hires (27%)
7 Internal Promotions (10%)
30 Employees New to Position (37%)
Pavement Condition Index (PCI)

- **Category I** – Very Good to Excellent
- **Category II/III** – At-Risk to Fair
- **Category IV** – Poor
- **Category V** – Very Poor to Failed
NAPA NEIGHBORHOOD STREETS AND SIDEWALKS PROGRAM

Peter Brestak, Public Works Operations Manager
Challenges Faced in 2022

- Vacancies
- Staffing Changes
- NNSSP Schedule and Workflow Changes
Previous Schedule

- Running behind schedule due to more work than originally identified
- Accurate scheduling requires neighborhood assessment
- Included work that requires engineering and major alterations (vs. strictly repairs and replacing in kind)
Repair Examples Suited for Engineering & Contracting

- Surveying, engineering, and site layout often necessary when preserving trees

- Storm drain and inlet relocation necessary to accommodate ADA ramps
Updated Schedule

- 5-year outlook
- Targeting two neighborhoods per year
- Modified sequencing strategy
- Improves pace of paving

Gray: complete
Colors: 5-year outlook
Tan: future
Previous Concrete Strategy

- Addressed all concrete issues in the neighborhoods in one sequence
- Large amount of tree and sidewalk work
- Limited the paving opportunities
Refined Concrete Strategy

- Results in sequenced repair of all concrete needs
- Sequencing allows increased pace for paving
- Part 1 Work: Remove and replace work essential to paving
- Part 2 Work: Follow-up crew to complete remaining sidewalk repairs
Sidewalk Construction Sequencing

- **Monarch/Paulson:**
  - Performed in one sequence
  - Paving prep took approx. 12 months
  - Impacted paving schedule

- **South Franklin work:**
  - Work is sequenced
  - Paving prep took approx. 5 months
  - Improved paving schedule

- **Sequencing Advantages:**
  - Groups similar work types
  - More effective use of staff and contractor time
  - Results in same repairs completed at end of project
Sidewalk Repair Overview

Sidewalk damage can be reported through the Service Center

Repair Options:

- **Asphalt Patch (temp)**
  - Displacements more than 2-inches
  - Very quick response by City crews
  - Mitigate abrupt edge

- **Sidewalk Shaving**
  - Displacements less than 2-inches
  - Contractor repairs

- **Neighborhood Schedule (City Crew)**
  - Replacement
    - Limited staff and funds
    - Tied to paving schedule

- **Cost Share Program**

- **CIP Projects**
  - As part of road rehabilitation project

- **Private Development Projects**
Sidewalk Shaving

- 4,130 repairs in 2022
  - Double from any previous year
- Most cost-effective option to repair sidewalks
- Addresses uplift of less than 2 inches
- Neighborhood areas in 2022:
  - Grandview
  - Greenbach
  - Hospital West
  - Pinot (Vineyard Park)
  - Monarch Paulson
  - South Franklin
  - Service Request Locations
Monarch Paulson Sidewalk Shaving

- Performed after City crews complete other concrete work
- 530 locations shaved
- Approximately 88% in cost savings vs. remove & replace
- Less new resources used
- Less concrete waste disposal
- Less equipment and emissions
Sidewalk Cost Share Program

- Submit Application
- Application reviewed
- Once approved, homeowner hires contractor to perform the repairs
- Submit for reimbursement
  - General repairs: up to 60% of the cost
  - ADA ramps: up to 100% of the cost
  - Tree removal and root pruning: up to 100%
  - $5,000 max per residential parcel per year
- $150,000 funded each year
Paving Schedule

• Complete all NNSSP prepared streets first
• Pave streets outside of NNSSP if needed
• Utility patch work
Paving Completed in 2022

- Monarch Paulson
  - Completed
  - Total Tonnage: 8948
- Pinot
  - Completed
  - Total Tonnage: 5469
- South Franklin
  - 33% Completed
  - Total Tonnage: 2823
Signs and Striping

• Refreshed striping in ALL school zones
• Enhanced crosswalks to high visibility design
• Thermal striping completed with NNSSP (longer life than paint)
• Speed Reduction Project with Traffic Engineering
  – 60 new speed limit signs
• Debris clean up
• With other duties for downtown graffiti, supporting internal services
Jessica Lowe, Deputy Public Works Director

CAPITAL IMPROVEMENT PROGRAM
STREETS PROJECTS
## Measure T Projects

**FISCAL YEAR 2022-23**

<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>PHASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAUREL STREET - 1\textsuperscript{ST} Street to Griggs Ln</td>
<td>Construction</td>
</tr>
<tr>
<td>FREEWAY DR – 1\textsuperscript{ST} Street to Laurel St</td>
<td>Construction</td>
</tr>
<tr>
<td>LINCOLN AVE – California Blvd to Silverado Trail</td>
<td>Design</td>
</tr>
<tr>
<td>Pavement repair on local streets, various locations</td>
<td>Construction</td>
</tr>
</tbody>
</table>

**FISCAL YEAR 2023-24**

<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>PHASE</th>
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<tbody>
<tr>
<td>BROWNS VALLEY RD – Westview Dr. to Hwy 29</td>
<td>Construction</td>
</tr>
<tr>
<td>COOMBS ST – Elm Street to Imola Avenue</td>
<td>Construction</td>
</tr>
<tr>
<td>LAUREL STREET – Griggs Lane to Freeway Drive</td>
<td>Construction</td>
</tr>
<tr>
<td>Pavement repair on local streets, various locations</td>
<td>Construction</td>
</tr>
</tbody>
</table>
## Measure T Projects

**FISCAL YEAR 2024-25**

<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>PHASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WESTWOOD NEIGHBORHOOD – Various interior streets</td>
<td>Construction</td>
</tr>
<tr>
<td>IMOLA AVE – Soscol Ave (Hwy 121) to East End (City Limits)</td>
<td>Construction</td>
</tr>
<tr>
<td>LINCOLN AVE – California Blvd to Silverado Trail</td>
<td>Construction</td>
</tr>
<tr>
<td>REDWOOD DR – Dry Creek to Carol Dr</td>
<td>Design</td>
</tr>
<tr>
<td>JEFFERSON STREET – Trancas St. to Lincoln Ave</td>
<td>Design</td>
</tr>
<tr>
<td>TRANCAS ST. – SR 29 to Jefferson St.</td>
<td>Design</td>
</tr>
<tr>
<td>Pavement repair on local streets, various locations</td>
<td>Construction</td>
</tr>
</tbody>
</table>
# Measure T Projects

## FISCAL YEAR 2025-26

<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>PHASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMS Corridors: Soscol Ave., Lincoln Ave., Trancas St.</td>
<td>Signal Coordination</td>
</tr>
<tr>
<td>COOMBSVILLE RD – Silverado Trail to Pascale Pl.</td>
<td>Construction</td>
</tr>
<tr>
<td>WESTWOOD STREETS – Various interior streets</td>
<td>Construction</td>
</tr>
<tr>
<td>COOMBSVILLE RD – Pascale Pl to East Eng (City Limit)</td>
<td>Construction</td>
</tr>
<tr>
<td>TRANCAS ST – SR 29 to Jefferson St.</td>
<td>Construction</td>
</tr>
<tr>
<td>Pavement repair on local streets, various locations</td>
<td>Construction</td>
</tr>
</tbody>
</table>

## FISCAL YEAR 2026-27

<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>PHASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. LINCOLN AVE – Lone Oak Ave to Solano Ave</td>
<td>Construction</td>
</tr>
<tr>
<td>REDWOOD DR – Dry Creek to Carol Drive</td>
<td>Construction</td>
</tr>
<tr>
<td>JEFFERSON ST. – Trancas to Lincoln Ave</td>
<td>Construction</td>
</tr>
<tr>
<td>SOSCOL AVE @ PUEBLO AVE – Traffic Signal Upgrade</td>
<td>Design</td>
</tr>
<tr>
<td>Pavement repair on local streets, various locations</td>
<td>Construction</td>
</tr>
</tbody>
</table>
Capital Improvement Projects

- Jefferson Street Rehab
- Laurel Street Phase I
- Westwood Interior Streets
- Browns Valley Road
- Coombs Street
- Freeway Drive
Jefferson Street Rehabilitation

- Trower to Sierra
- Base repair and pavement resurfacing
- Updated striping including buffered bike lanes
Laurel Street Phase I

- Browns Valley Road to Griggs
- Pavement resurfacing
- New striping
  - Class II bike lanes
  - Two new crosswalks with flashing beacons
- Sidewalk, drainage, and ADA improvements
- Limited on-street parking removal
- Some utility relocations
Westwood Interior Streets

- Continuous sidewalk on one side
- Parking on two sides
- Two-way travel on all streets
- Minimal impacts to private properties
Browns Valley Road

- Westview to SR29
- Pavement resurfacing
- Sidewalk gap closures
- ADA improvements
- Updating striping and signage
- Local Roadway Safety Plan High Injury Network
- Pedestrian flashing beacon installation
Freeway Drive

- First to Kilburn
- Pavement resurfacing
- Striping improvements
- Sidewalk repairs

Coombs Street

- Imola to 5th Street
- Pavement rehabilitation
- Sidewalk repairs
- Bicycle Plan study corridor
Silverado 5-Way

• Multi-mode improvements at 5-way intersection
• Partnering with Caltrans
  – Developing cooperative agreement for design and environmental review; City to lead
Service Center

The Service Center is the most effective way to report an issue.
# Service Center

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Streets &amp; Sidewalks</td>
<td>Report potholes, damaged sidewalks or curbs, dead animals in the roadway, graffiti, litter or debris in City right-of-way, rough road surfaces, sign issues, localized flooding, sinkholes and more.</td>
</tr>
<tr>
<td>Water Issues</td>
<td>Report water leaks, water pressure problems or issues with water quality and more.</td>
</tr>
<tr>
<td>Parks &amp; Trees</td>
<td>Report a problem at a park, such as a broken sprinkler, debris or litter, weeds, graffiti and vandalism. Request tree pruning or scaling, and report tree issues such as downed trees and pest infestation.</td>
</tr>
<tr>
<td>Construction Site Issues</td>
<td>Report dust, noise, traffic control issues and other problems related to construction sites around town.</td>
</tr>
<tr>
<td>Drainage &amp; Pollution</td>
<td>Report ponding water, clogged storm drains, pollution, damaged catch basins and more.</td>
</tr>
<tr>
<td>Traffic Engineering</td>
<td>Report traffic related problems regarding infrastructure, for example, traffic signals (including issues), street signs, and pavement markings. Other concerns related to traffic such as visibility or road obstructions can also be reported here.</td>
</tr>
<tr>
<td>Abandoned Vehicles</td>
<td>Report abandoned vehicles in the City right-of-way.</td>
</tr>
<tr>
<td>Traffic Violations</td>
<td>Report observed traffic violations such as speeding, reckless driving or racing, or other violations.</td>
</tr>
<tr>
<td>Radar Signs</td>
<td>Request a radar trailer or sign from Napa Police Department.</td>
</tr>
</tbody>
</table>
Q & A