



## CITY OF MORRO BAY PUBLIC WORKS ADVISORY BOARD MEETING AGENDA

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The City of Morro Bay is dedicated to the preservation and enhancement of the quality of life. The City shall be committed to this purpose and will provide a level of municipal service and safety consistent with and responsive to the needs of the public.

**September 21, 2016**  
**Veterans Memorial Building - 5:30 P.M.**  
**209 Surf Street, Morro Bay, CA**

Steven Shively, Vice-Chair Janith Goldman	Marlys McPherson, Chair Ric Deschler David Sozinho	Christopher Parker Stewart Skiff
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ESTABLISH QUORUM AND CALL TO ORDER  
MOMENT OF SILENCE/PLEDGE OF ALLEGIANCE  
ANNOUNCEMENTS  
PRESENTATIONS – None

### PUBLIC COMMENT PERIOD

Members of the audience wishing to address the Board on City business matters other than scheduled items may do so at this time. To increase the effectiveness of the Public Comment Period, the following rules shall be followed:

- When recognized by the Chair, please come forward to the podium and state your name and address for the record. Board meetings are audio and video recorded and this information is voluntary and desired for the preparation of minutes.
- Comments are to be limited to three minutes.
- All remarks shall be addressed to the Board, as a whole, and not to any individual member thereof.
- The Board respectfully requests that you refrain from making slanderous, profane or personal remarks against any elected official, commission and/or staff.
- Please refrain from public displays or outbursts such as unsolicited applause, comments or cheering.
- Any disruptive activities that substantially interfere with the ability of the Board to carry out its meeting will not be permitted and offenders will be requested to leave the meeting.
- Your participation in Board meetings is welcome and your courtesy will be appreciated.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Public Works Department at (805) 772-6263. Notification 24 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

### A. CONSENT CALENDAR

- A-1 **Approval of Minutes of August 17, 2016 Meeting**  
Recommendation: Approve minutes.

**B. BUSINESS ITEMS**

B-1 **Directors Report – Informational summary of current Public Works Activities**  
Recommendation: Information item, no action needed.

B-2 **Streets Summit Recap**  
Recommendation: Review Streets Summit Presentation and provide any recommendations to staff

**C. FUTURE AGENDA ITEMS**

- Memorial Bench, Tree, and Bike Rack Program
- Adopt a Street/Park
- Council Directed Work Program Items

**D. ADJOURNMENT**

Adjourn to the Public Works Advisory Board meeting at the Veteran's Memorial Building, 209 Surf Street, on October 19, 2016 at 5:30 p.m.

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This agenda is subject to amendment up to 72 hours prior to the date and time set for the meeting. Please refer to the agenda posted at the Public Works Department, 955 Shasta Avenue, for any revisions or call the department at 772-6263 for further information.

Materials related to an item on this Agenda are available for public inspection during normal business hours in the Public Works Department at 955 Shasta, City Hall at 595 Harbor, Mill's/ASAP at 495 Morro Bay Boulevard, or the Morro Bay Library at 695 Harbor, Morro Bay, CA 93442.

This agenda may be found on the Internet at: [www.morrobayca.gov/pwab](http://www.morrobayca.gov/pwab) or you can subscribe to Notify Me for email notification when the Agenda is posted on the City's website. To subscribe, go to [www.morrobayca.gov/notifyme](http://www.morrobayca.gov/notifyme) and follow the instructions.

Materials related to an item on this agenda submitted to the Board after publication of the agenda packet are available for inspection at the Public Works Department during normal business hours or at the scheduled meeting.

MINUTES - PUBLIC WORKS ADVISORY BOARD (PWAB)  
REGULAR MEETING – AUGUST 17, 2016  
VETERAN’S MEMORIAL HALL – 5:30P.M.

PRESENT:	Marlys McPherson	Chair
	Steve Shively	Vice-Chair
	Ric Deschler	Board Member
	Janith Goldman	Board Member
	Chris Parker	Board Member
	Stu Skiff	Board Member
	David Sozinho	Board Member

ABSENT: None

STAFF:	Rob Livick	Public Works Director
	Rick Sauerwein	Capital Projects Manager
	Janeen Burlingame	Management Analyst

ESTABLISH QUORUM, CALL TO ORDER AND MOMENT OF SILENCE

The meeting was called to order at 5:30 p.m., a quorum was present and there was a moment of silence.

Marlys McPherson welcomed new member Ric Deschler.

ANNOUNCEMENTS

<https://youtu.be/caOvWmYSQNY?t=1m38s>

David Sozinho expressed appreciation to a Morro Bay Garbage Service driver who walked up the driveway to collect the container when he was not feeling well and had not put it out for pick up, noting there is a community connection by those who serve the City and there are times they go above and beyond the call of duty.

Marlys McPherson announced the Citizen Finance Advisory Committee would be holding a public workshop on 8/30/16 to review and get input from the public on budget friendly documents and provide information about the adopted FY 16/17 budget.

PRESENTATIONS - None

PUBLIC COMMENT

The public comment period was opened, seeing none the public comment period was closed.

A. CONSENT AGENDA

<https://youtu.be/caOvWmYSQNY?t=4m13s>

A-1 Approval of Minutes from the PWAB Special Meeting of July 13, 2016

A-2 Approval of Minutes from the PWAB Meeting of July 20, 2016

**MOTION:**

Christopher Parker moved to approve Items A-1 and A-2. The motion was seconded by Stewart Skiff and carried, 6-0-1 (Steve Shively abstained).

**B. BUSINESS ITEMS**

- B-1 Directors Report – Informational summary of current Public Works Activities  
<https://youtu.be/caOvWmYSQNY?t=4m56s>

The Board asked questions of staff and commented on the current Public Works Activities Directors Report.

- B-2 Award the Consultant Agreement for Preliminary Engineering Support of Project 05-5391R, State Route 1/SR41 Interchange Improvements  
<https://youtu.be/caOvWmYSQNY?t=30m9s>

Rick Sauerwein presented the staff report.

Discussion, comments and questions continued amongst committee members and staff.

**MOTION:**

Steve Shively moved to recommend the City Council approve award of a consulting agreement to Omni-Means for Preliminary Engineering Services of Project 05-5391R, to seek public input early on in the process, and ensure the Tasks in the Scope include the two design alternatives of a roundabout and signalization. The motion was seconded by Janith Goldman and carried unanimously, 7-0.

**ADJOURNMENT**

The meeting adjourned at 6:49 p.m. to a regular PWAB meeting to be held on Wednesday, September 21, 2016 at 5 :30pm at the Veteran's Memorial Hall, 209 Surf Street, Morro Bay, California.



AGENDA NO: B-1

MEETING DATE: September 21, 2016

# Staff Report

**TO: Public Works Advisory Board**                      **DATE: September 16, 2016**  
**FROM: Rob Livick, PE/PLS – Public Works Director/City Engineer**  
**SUBJECT: Director’s Report / Information Items**

Please contact the individual staff members prior to the meeting, if possible, for more detailed information.

**Notify Me:** Sign up for Notify Me on the City’s Website [www.morrobayca.gov/notifyme](http://www.morrobayca.gov/notifyme) for notification of Council, Board’s and Commission’s agendas and minutes.

**Service Requests:** The City has a feature to the City’s website, Service Requests [www.morrobayca.gov/905/Service-Requests](http://www.morrobayca.gov/905/Service-Requests), or the mobile App “My Morro Bay” (Available on both Android and IOS operating systems) where citizens can report a concern to the City for predetermined issues without the need to phone the City during business hours (for example: reporting a pothole).

Staff can also add Service Requests for someone over the phone or in the office if they do not have access to a computer. Each category in Service Requests is assigned to the appropriate staff member to handle so citizens don’t have to figure out what department to contact for an issue they need to report on.

## **BICYCLE/ALTERNATIVE TRANSPORTATION**

Staff Contact: Rob Livick

Staff trimmed weeds and shrubbery from the bikepath on South Bay Boulevard between State Park Road and Quintana Road.

## **CONSOLIDATED MAINTENANCE**

Staff Contact: Mike Wilcox

The Energy Efficiency upgrades projects continue to progress towards completion. Contractors began the process of changing out every single roof top HVAC package unit in the city with the most energy efficient package units currently available.

If you have maintenance requests, please call 772-6261, use the smart phone app, myMorroBay, available for android and iPhone, or use the City’s Service Requests online system on our website [www.morrobayca.gov/905/Service-Requests](http://www.morrobayca.gov/905/Service-Requests). Upon receipt, the electronic requests will be reviewed and assigned to the appropriate staff for action. In the future, the City will be upgrading to a fully integrated maintenance work order system that will allow you to view the progress of your requests.

## **SIDEWALK REPAIR AND INSTALLATION**

Staff Contact: Rick Sauerwein

2016 CDBG ADA Accessibility project: The County Board of Supervisors approved reallocation of prior year funding to provide up to \$236,418 in additional funding to fill gaps in our existing sidewalk network to improve ADA Accessibility. Staff is working with the County to process a new sub-recipient agreement so that new delivery orders can be issued for both the new 2016CDBG funding as well as this reallocation. This will exhaust our remaining contract capacity so a new IDIQ contract Sidewalk contract is being prepared for bid.

In association with the sidewalk gap closure project, the Council provided an additional \$60,000 to address repairs of existing sidewalk. The City's contractor has been awarded a new delivery order and work began in August.

## **STORM WATER**

Staff Contact: Damaris Hanson

Year three of the new storm water permit is nearing an end. Staff will begin gathering the necessary data together for the online annual report.

## **TRANSIT – Morro Bay Transit**

Staff Contact: Janeen Burlingame

Morro Bay Transit will be participating in the upcoming Rideshare week in October by providing free Morro Bay Transit fixed route rides on Thursday, October 6, 2016.

## **WATER – Chorro Stream Gauge**

Staff Contact: Rick Sauerwein  
Pamela Newman

Staff is working with the Assistant City attorney to address Appropriated Right issues identified during our meeting with State Water Resources Control Board. The City's consultant, WSC, has responded to National Marine Fisheries Service (NMFS) concerns and is awaiting a response. Mitigated Negative Declaration has been completed, but the City's Planning Commission and County Permitting cannot proceed further until we can respond to NMFS concerns regarding fish passage and obtain property owner permission to install gage on San Luis Coastal Resource Conservation District property. This requires the approval from the USDA/NRCS who hold a conservation easement.

## **WATER – Nutmeg Tank Replacement**

Staff Contact: Rick Sauerwein  
Jarrod Whelan

No change in status: Mitigated Negative Declaration has been revised but County Permitting is on hold until a new RFP is drafted.

## **WATER – Operations**

Staff Contact: Rob Livick  
Jamie James  
Damaris Hanson

During the month of August, the City's four-person field crew in water performed 722 work requests. These include but not limited to water samples, USA requests, exercising valves, resetting meter boxes, water turn on, meter re-reads and turn off notices.

## **WATER – Water Conservation**

Staff Contact: Damaris Hanson

Water conservation has been holding strong in Morro Bay!! Great job everyone! In August water usage was down 23% compared to water usage in August on 2013. Keep up the good work!

Water conservation rebates available; Cash for grass, rain barrel, irrigation retrofit, SMART irrigation controller, toilet retrofit and Energy star washing machine. State rebates now available for removing grass (up to \$2 per sq. ft.) and replacing a toilet that flushed more than 1.6 gallons per flush (\$100). Go to [www.saveourwaterrebates.com](http://www.saveourwaterrebates.com).

## **WASTEWATER – Collections**

Staff Contact: Bruce Keogh  
Dave Zevely  
Jarrod Whelan

The City's five-person field crew in wastewater collections performed 18,397 feet of sewer main cleaning, collected flowmeter data, inspected newly-installed lateral connections to City mains, performed lift station maintenance, conducted 2 industrial pretreatment and 12 source control inspections, and crafted a new fats, oils and grease best management practices handout (in English and now Spanish) for distribution to restaurants and pretreatment sites. Four of the collection crew enrolled in wastewater continuing education courses at Sacramento State Office of Water Programs.

In August there were no sanitary sewer overflows from the collection system, and staff responded to one (1) private sewer lateral discharge.

## **WASTEWATER – Operations and Maintenance**

Staff Contact: Bruce Keogh  
Jarrod Whelan

### **Purchase and Installation of New Distributor Arms and Biofilter Improvement Project**

Staff will continue to work with City Public Works Engineering staff and MKN for the purchase and installation of new distributor arms on biofilter #2. There will be a long lead time of sixteen to twenty weeks for receipt of the equipment once a purchase order is issued, so the funding for this project was rolled over and included in the FY16/17 budget.

### **Plant Tours**

Plant staff toured both the Pismo Beach and Paso Robles treatment plants. The tours included discussion of how the plant staff manages plant data and their method for uploading monthly monitoring data to CIWQS. Additional Discussion centered on plant and collection system management and staffing levels.

## **WASTEWATER – NEW WRF**

Staff Contact: Rob Livick

The Water Reclamation Facility Citizen Advisory Committee (WRFCAC) is expected to receive a draft of the Facility Master Plan for review at its October 4, 2016 meeting. The Facility Master Plan is expected to be complete in December 2016 with the Certification of the EIR to be complete by the following December. That will give the City 2-1/2 years to complete the design build phase of the project.

Additional information on the WRF project is available on the City's website (<http://morrobaywrf.com/>).

### **Schedule**

Still on track for May 2021 delivery.



AGENDA NO: B-2

MEETING DATE: September 21, 2016

## Staff Report

**TO: Public Works Advisory Board** **DATE: September 15, 2016**

**FROM: Rob Livick, PE/PLS – Public Works Director/City Engineer**

**SUBJECT: Streets Summit Recap**

### **RECOMMENDATION**

Review Streets Summit presentation and provide recommendations to staff as necessary.

### **DISCUSSION**

On September 14, 2016, the Public Works Department hosted the third annual “Streets Summit” workshop where various aspects of the streets maintenance program were presented and staff received input from the public.

Topics included the following:

- Pavement Management 101
- 2016 Street Rehabilitation Program
- Future of the City’s Street Maintenance
- Funding scenarios and the benefits of accelerated maintenance
- CDBG Sidewalk Gap Closure project
- Traffic Calming
- Bike Facility Improvements
- Signs and Pavement Marking

### **Attachments**

Streets Summit Workshop PowerPoint Presentation

Prepared By: JB

Dept Review: RL

**PUBLIC WORKS ADVISORY BOARD  
AND  
RECREATION AND PARKS COMMISSION  
CITY FACILITIES & PARKS TOUR**

**Morro Bay Public Works Department  
955 Shasta Avenue  
Morro Bay, CA**

**DATE: July 13, 2016**

**TIME: 4:30pm**

The Public Works Advisory Board and Recreation & Parks Commission Joint Special Meeting will start at the Public Works Department for Public Comment before boarding the City's trolley for the tour.

**Tour Route:**

1. Morro Rock - Restroom and Outfall
2. Embarcadero - Sea Water Wells by Coleman Park
3. Anchor Park
4. Harbor Street - View recent paving project
5. Del Mar Park
6. Lila Keiser Park
7. Waste Water Treatment Plant
8. Desalination Plant
9. Corporation Yard

Please wear comfortable closed toe walking shoes, as we will be getting out of the vehicle and walking within some of the facilities and parks.

City of Morro Bay  
Street Summit, Part 2  
September 14, 2016



# Agenda

- Pavement Management Basics
- Future of City Street Maintenance
- Future Funding Scenarios
- 2016 Street Preservation Program
- CDBG Sidewalk Gap Closure/ ADA Access
- Other Streets Activities
  - Traffic Calming /Complete Streets
  - Bikes / Signs/ Striping
  - Sweeping
  - Storm Drainage



# Goal of City's Pavement Management Program

- Improve to & Maintain Average Pavement Condition Index (PCI) from 66 to 70
- Aligned with State of California Goal
- Balances Pavement Preservation with worst first (~70/30 Split)

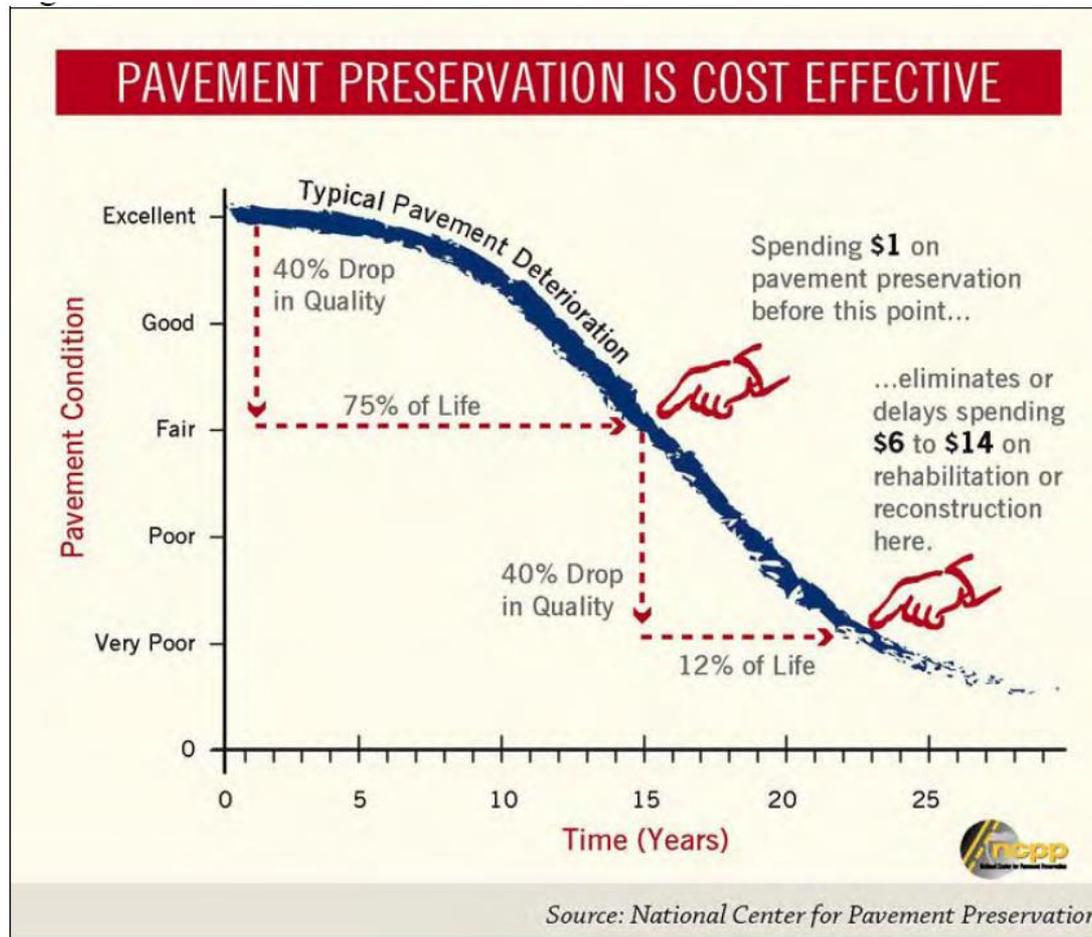


# Street Maintenance Priorities

- Pavement Management (Street Repair )
- Pothole repair – In House
- ADA Sidewalk Repair
- Tree Trimming
- Storm Drain Repair/Maintenance
- Roadway Striping
- Sign & Signal Maintenance



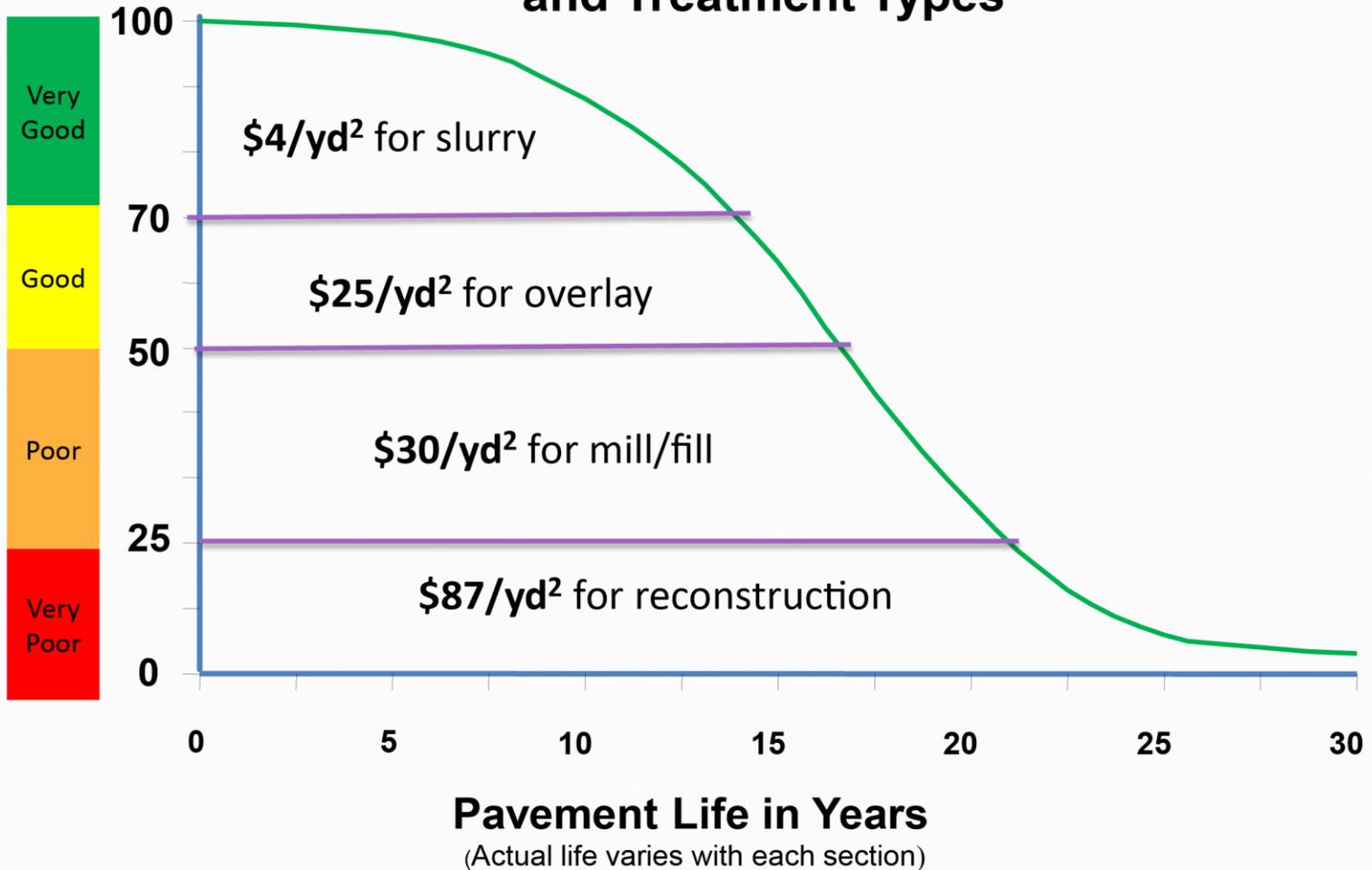
# Maximizing Investment





# Pavement Cost

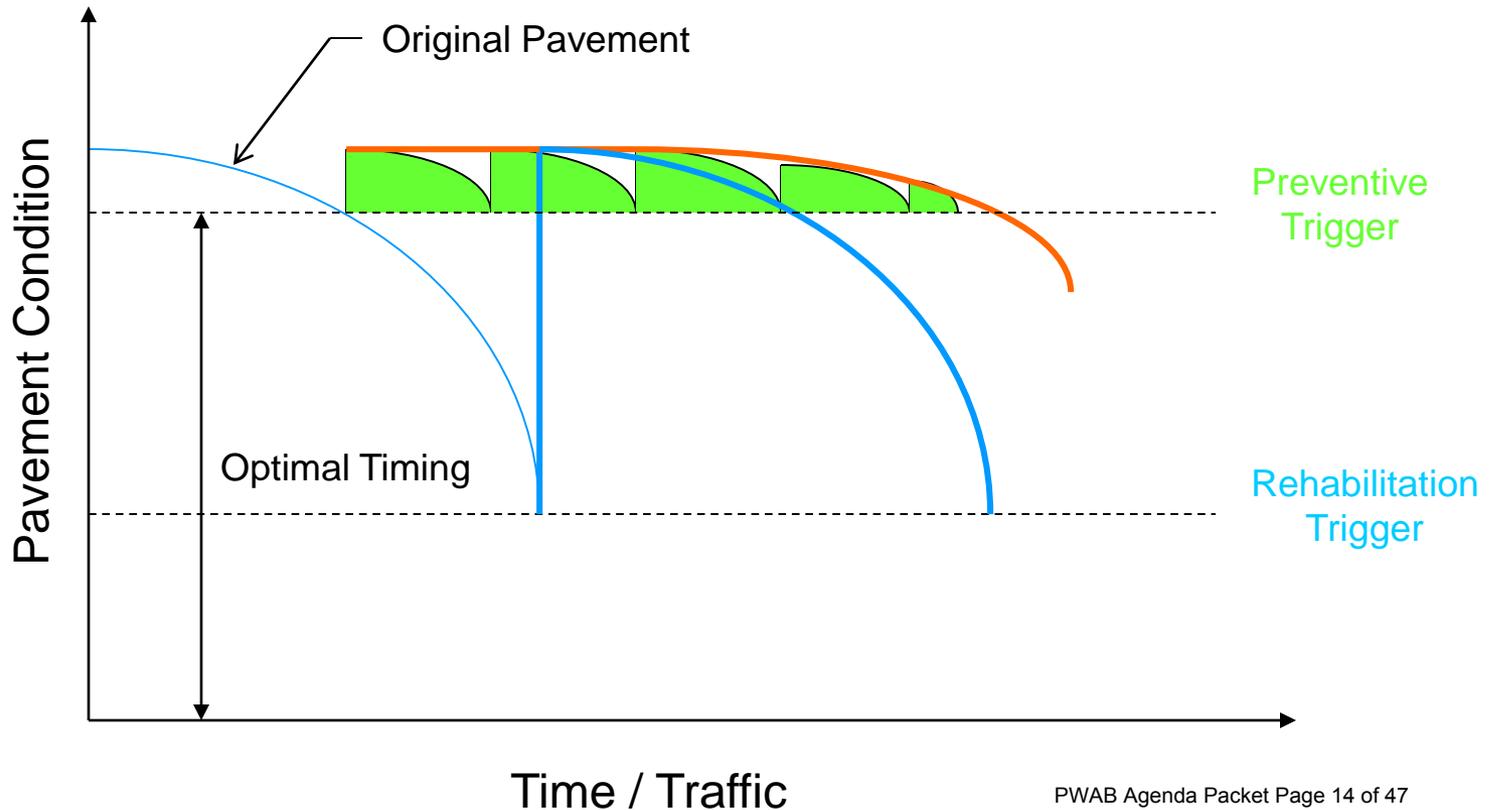
## Pavement Deterioration Curve and Treatment Types





# Transportation System Preservation

## Concept of Preventive Maintenance for Pavements





# 2011-15 Street Work

- \$ 4.1M over 5 years
- Repaired / maintained 17 miles or 32%
- *PCI increased from 63 (2009) to 66 (2016)*
- *5% of street w/ no pavement life*
- Reconstructed Segments of:
  - Kings, Panorama, Andros, South Bay Blvd



# Potential Improvements

- ✓ Establish Geographical Project Areas
- ✓ Implement New Rehabilitation Techniques
  - ✓ Rubberized Chip or AC improves wear and durability
  - ✓ Triple Layer v. Reconstruct
  - ✓ Lime/Cement Stabilization
    - Cold in Place Recycling
- Completing Transition to StreetSaver



# StreetSaver Transition

- All street data loaded
- Renovated streets have been reevaluated
- 100% streets reinspected
- Running Treatment Scenarios for Best Value
- Working out Bugs
  - Evaluating Decision Factors
  - Assessing effectiveness of alternative repairs

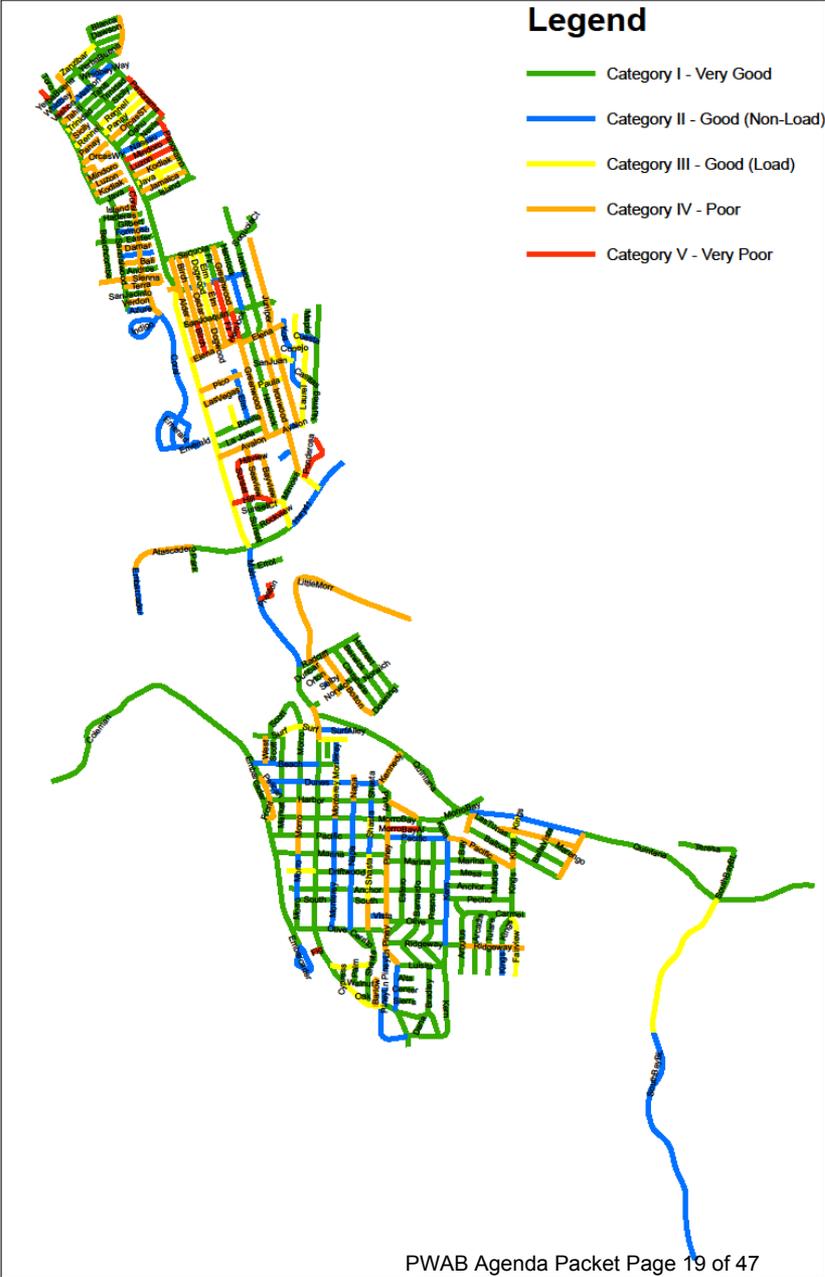


# Morro Bay Street Condition

Street Category	Miles	2009 PCI	2013 PCI	2016 PCI
Minor Arterial	7.55	78	82	75
Collector	12.2	60	61	67
Local/ Residential	33.31	59	57	63
Rural Local	1.06	64	62	48
<b>Total</b>	<b>54.41</b>	<b>63</b>	<b>63</b>	<b>66</b>

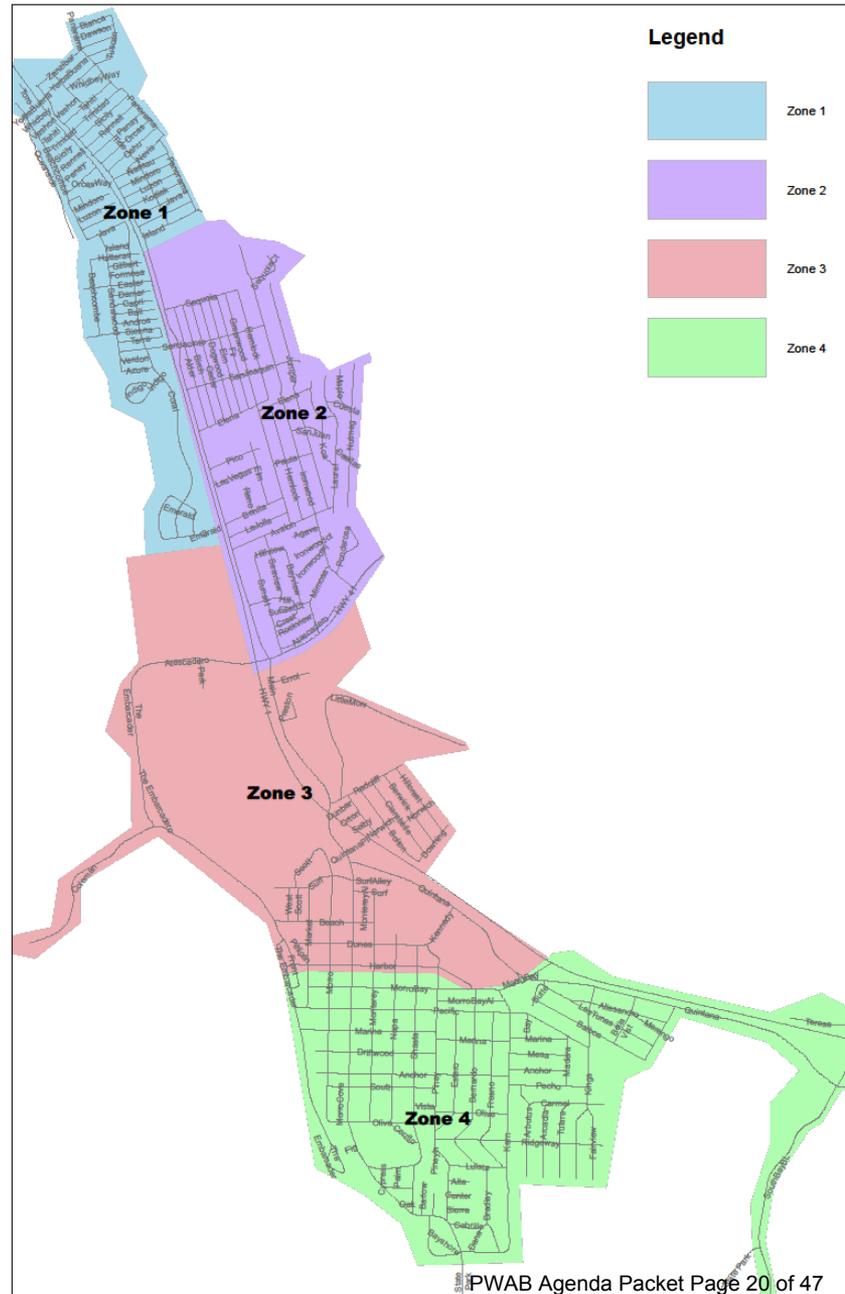


# Current PCI





# Geographic Areas





# Unconstrained \$\$ Needs

Current PCI	Year	PM Cost	Rehab Cost	Total Cost	PCI Treated
66	2016	\$ 360,554	\$8,044,674	\$8,405,228	79
64	2017	\$ 2,162	\$ 957,779	\$ 959,941	77
61	2018	\$ 46,313	\$5,025,197	\$5,071,510	81
59	2019	\$ 109,241	\$2,159,626	\$2,268,867	81
57	2020	\$ 70,891	\$1,717,987	\$1,788,878	81
23	20yr	\$4,090,309	\$34,533,190	\$38,623,499	77

***\$1,931,174 /yr required for very good roads***

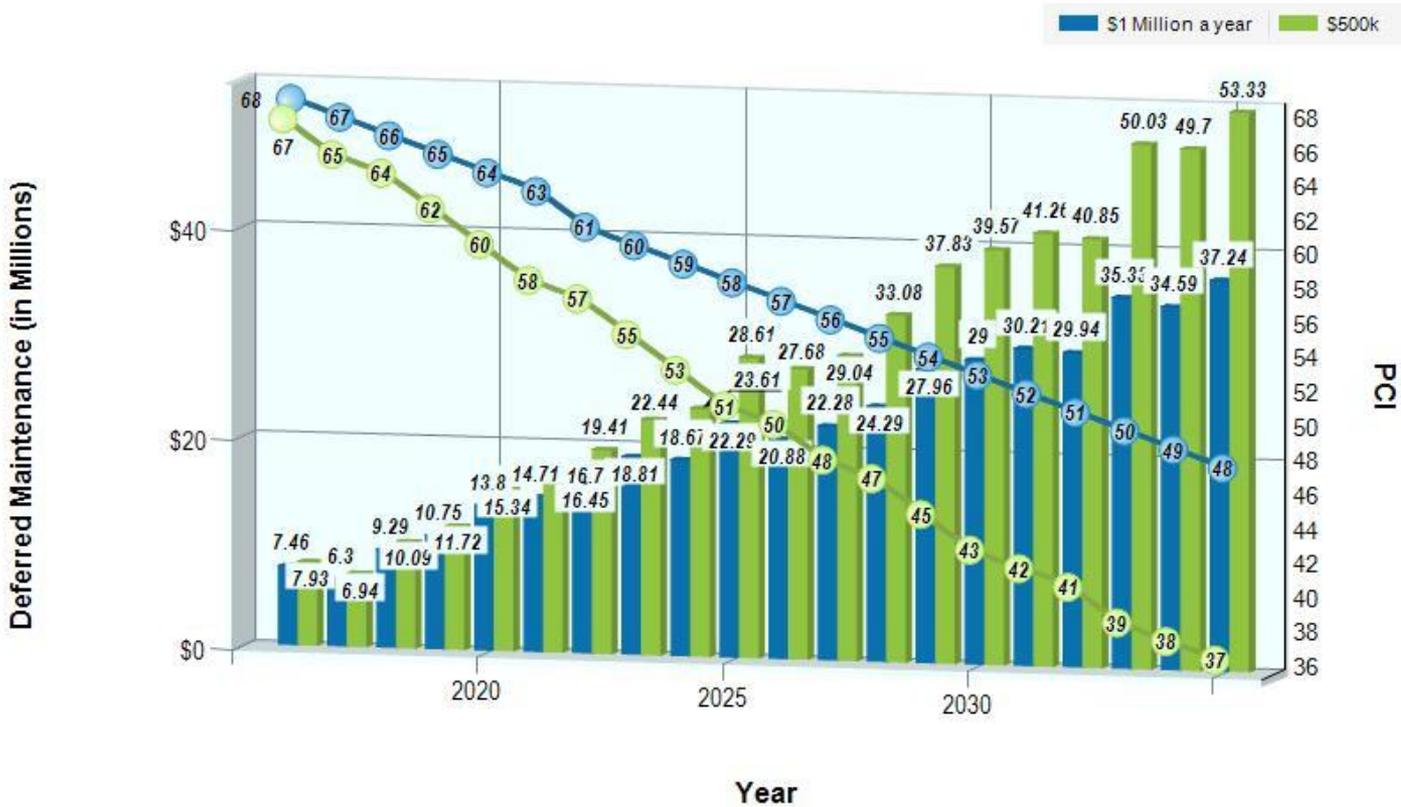
***Budget is 25% of current M&R cost***



# Current Funding

## Measure Q + Measure J (\$1M/yr)

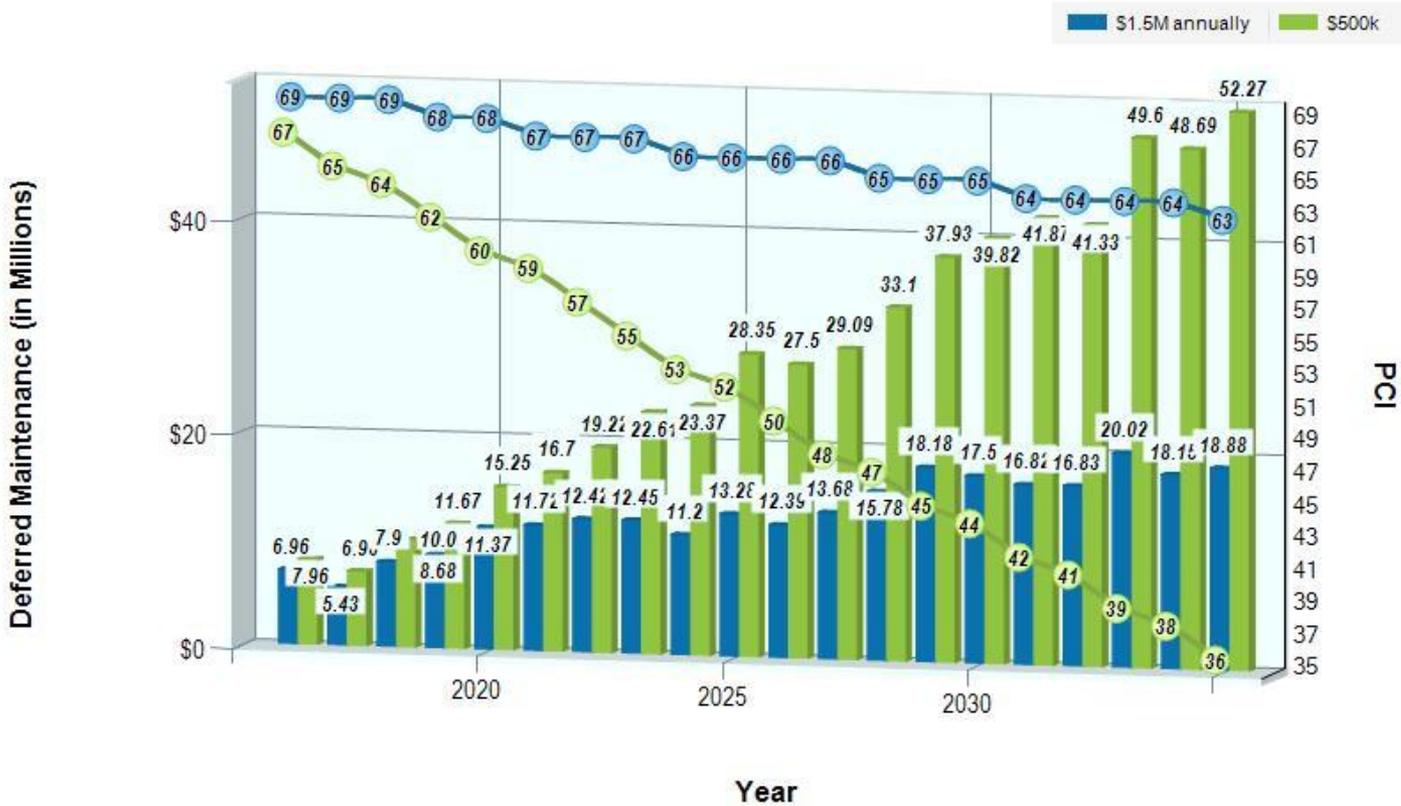
Scenario Comparison - Deferred Maintenance and PCI





# Current Funding (Measure Q) + Measure J + Other (\$1.5M/yr)

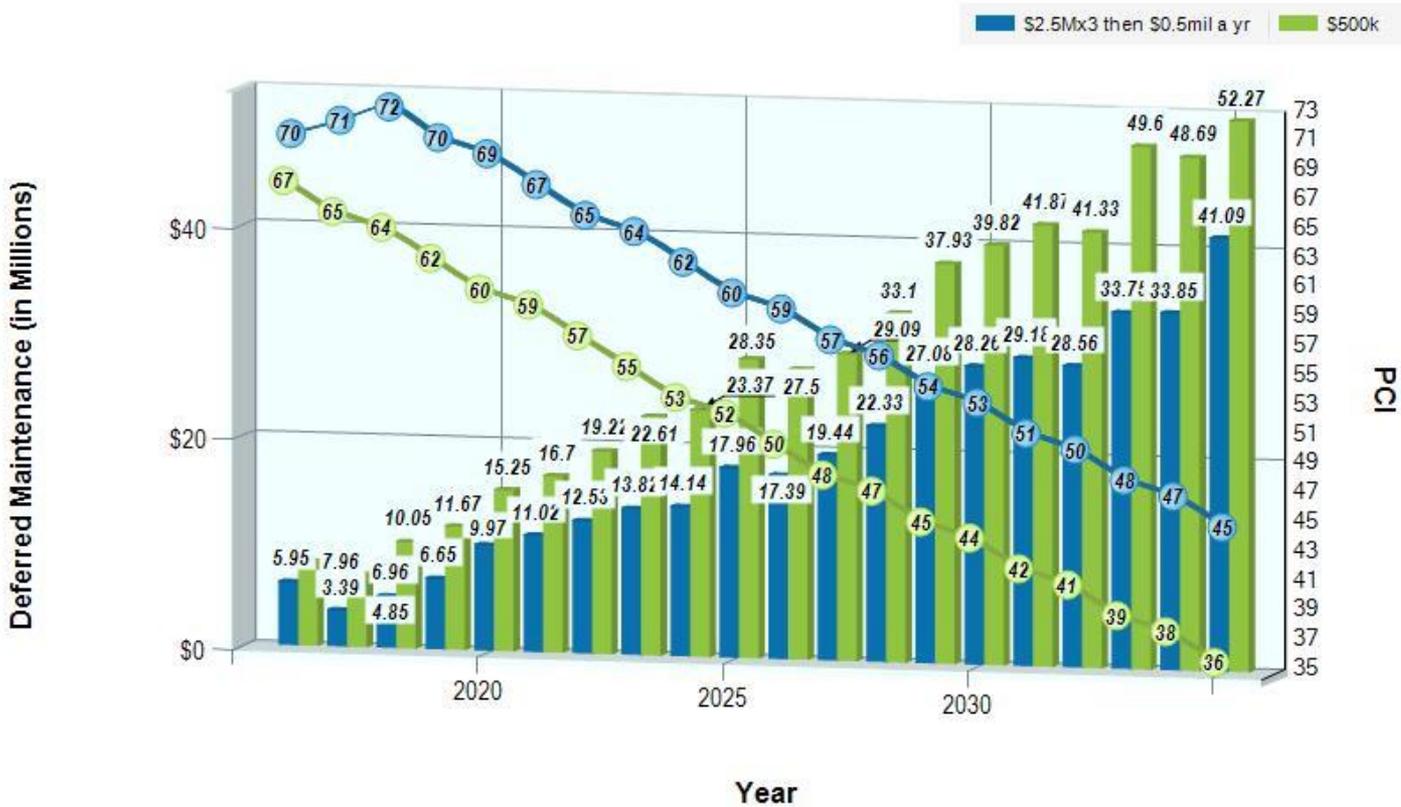
Scenario Comparison - Deferred Maintenance and PCI





# Current Funding (Measure Q) +CoP w/ Measure J

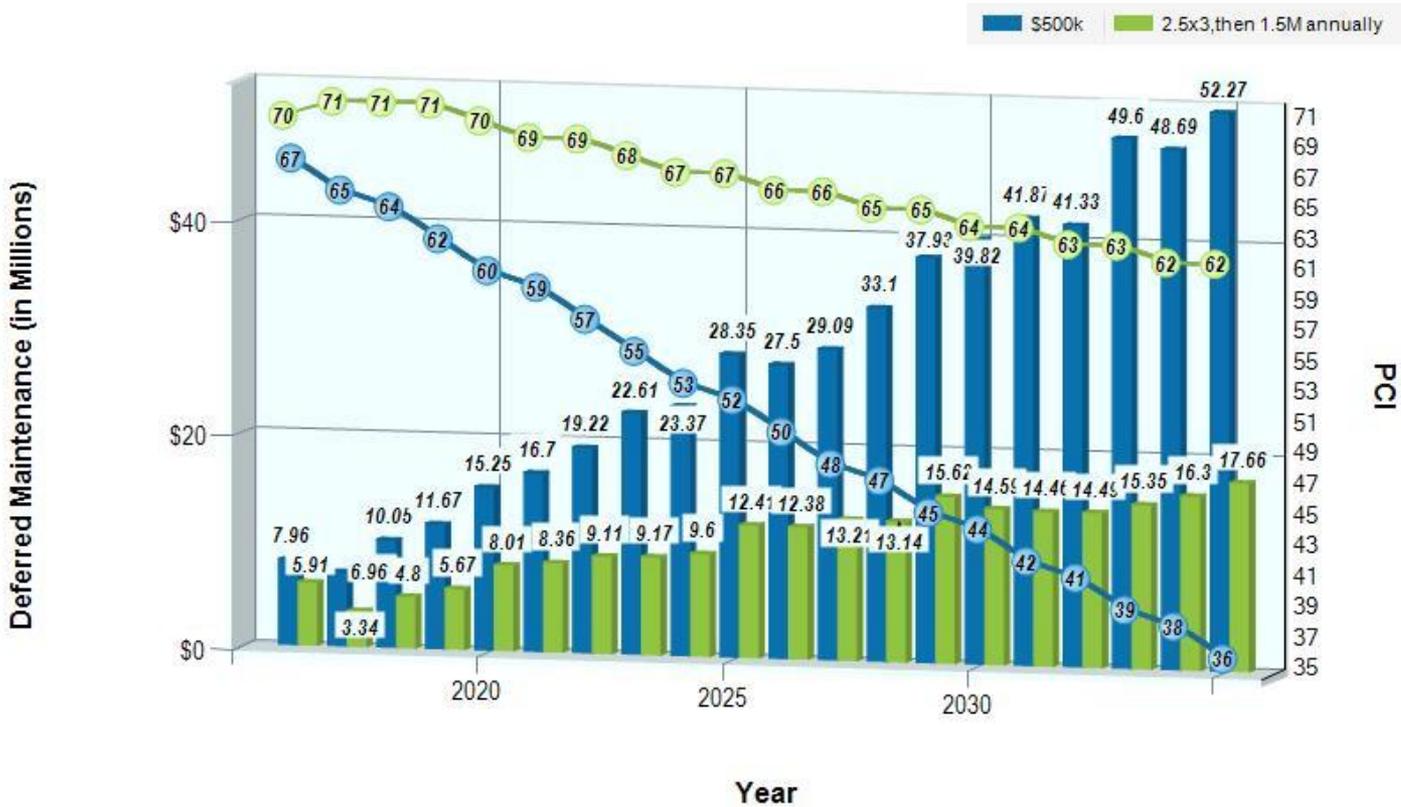
Scenario Comparison - Deferred Maintenance and PCI





# Current Funding (Measure Q) +CoP w/ Measure J+Other (\$1.5M)

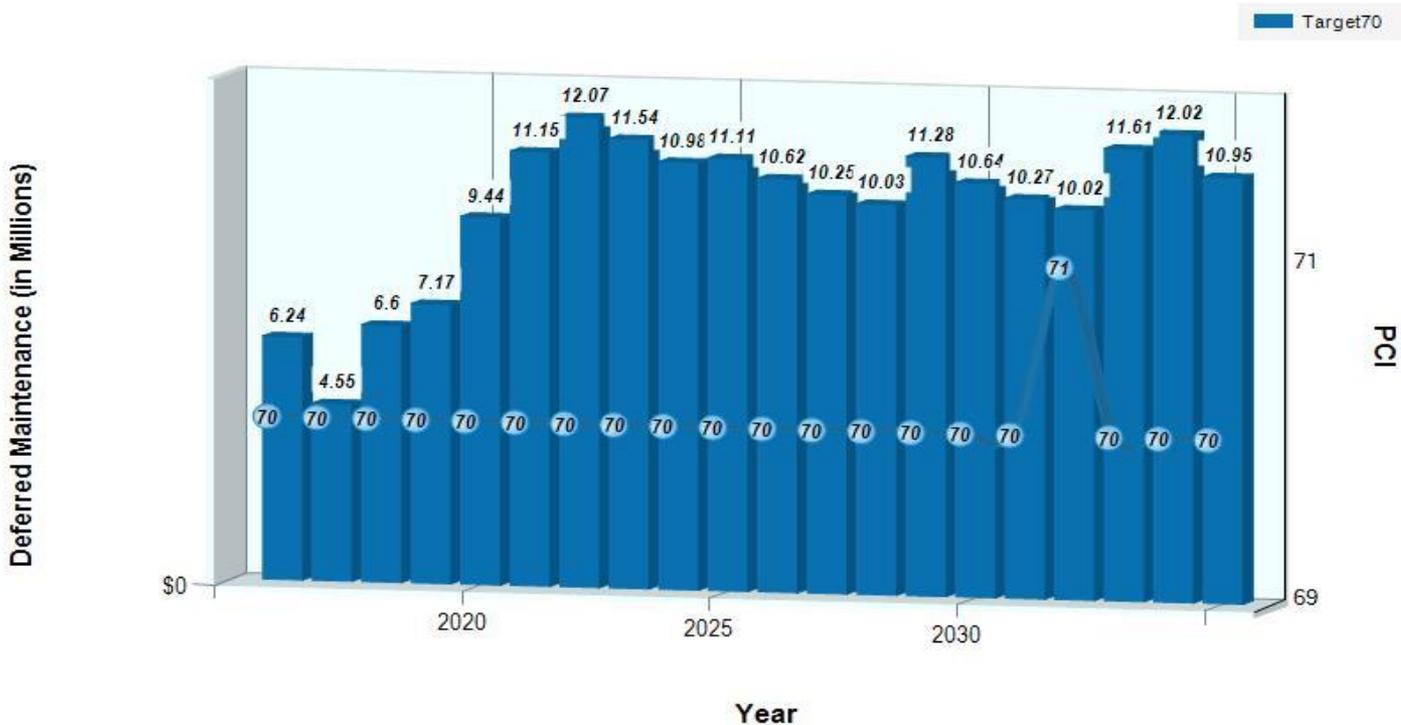
Scenario Comparison - Deferred Maintenance and PCI





# Cost for PCI Target 70

Target-Driven Scenario Comparison - Deferred Maintenance and PCI



**\$33,586,965 or \$1.68M /year**  
**\$168/ resident**



# 2016/17 Street Work

- \$986,000 Adopted Budget
- Stretch Limits of Innovative Treatments
  - Preserve Poor Streets to buy time
- Funds allocated based on Geo Area & PCI
- 5 year plan will change based on budget
- Establish Pavement Preservation IDIQ
- Maximize \$37K CalRecycle Grant
  - 1 mile sealcoat/ microsurfacing/ chip seal



# Proposed 2016/17 Street Work

## Triple Cape Seal

- Avalon
- Bali
- Elena
- Hill
- Harbor
- Pacific
- Panorama
- Piney
- Prescott
- San Juan
- Sienna
- Tuscan
- Zanzibar

## Mill & Double Chip

- Beachcomber
- Birch
- Coral
- Elm
- Greenwood
- Little Morro Crk
- Luzon
- Mindoro
- Ponderosa



# Proposed 2016/17 Street Work

## Slurry Seal

- Acacia
- Driftwood
- Dunes
- Monterey
- Napa
- Shasta
- Vista
- Walnut

## Penetrating Seal

- Andros
- Bayshore
- Clarabelle
- Kings
- SouthBay

## Base Seal/Dust Palliative

- Dirt Embarcadero



# PAVEMENT ALTERATIONS TRIGGER ADA

Crack Filling and Sealing  
Surface Sealing  
Chip Seals  
Slurry Seals  
Fog Seals  
Scrub Sealing  
Joint Crack Seals  
Joint Repairs  
Dowel Bar Retrofit  
Spot High-Friction Treatments  
Diamond Grinding  
Pavement Patching

Open-graded Surface Course  
Cape Seals  
Mill & Fill / Mill & Overlay  
Hot In-Place Recycling  
Microsurfacing/Thin Lift Overlay  
Addition of New Layer of Asphalt  
Asphalt and Concrete Rehabilitation and  
Reconstruction  
New Construction

**ADA Maintenance**

**ADA Alterations**

Alterations trigger  
wheelchair ramps



# ADA Improvements

- Sidewalk IDIQ Contract Successful
- \$257K of gaps filled in existing network
- \$60K for Sidewalk repairs (trip hazards)
- \$67K for 2017 CDBG
- \$247K CDBG reallocation

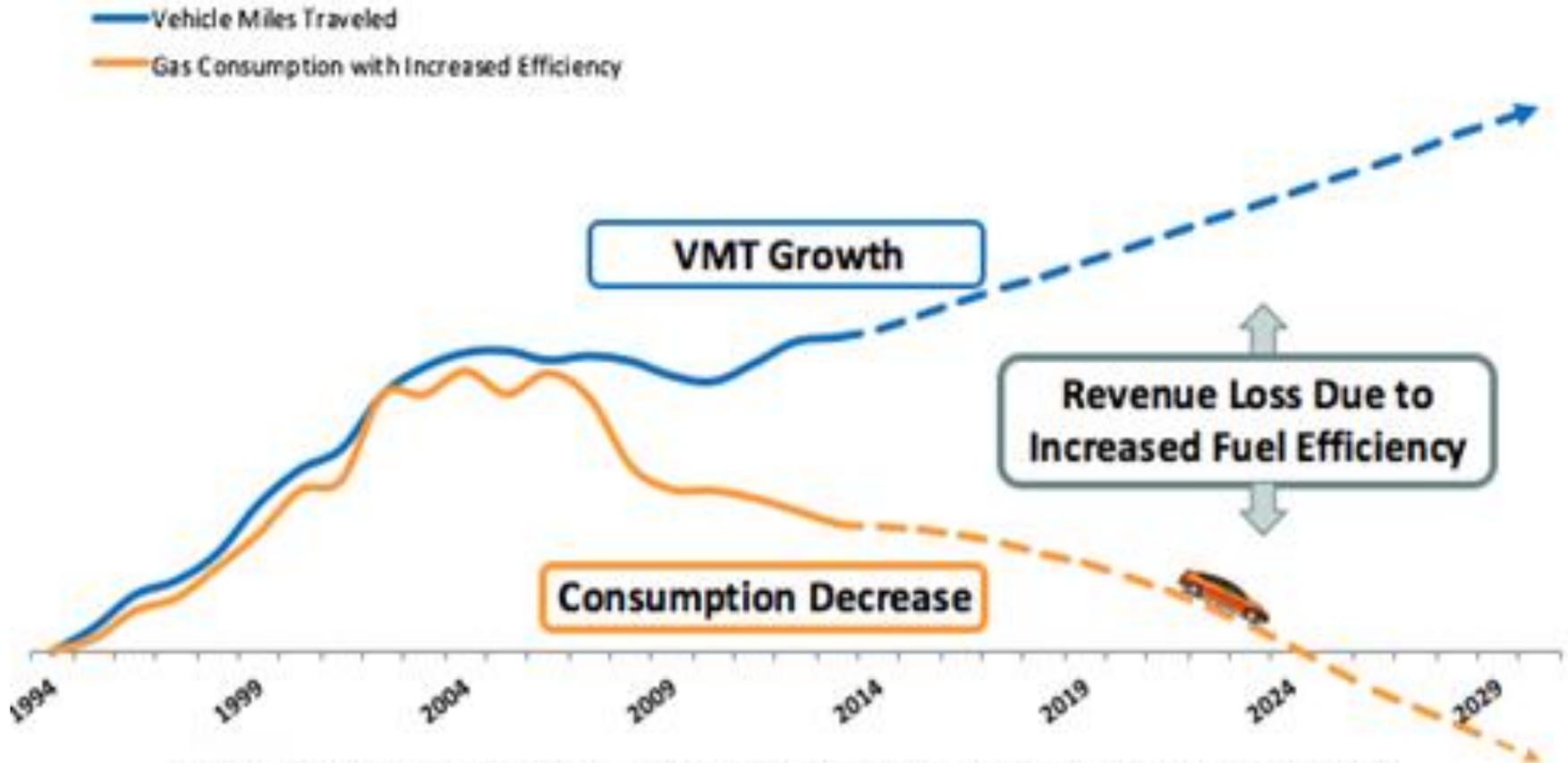


# Funding Street Work

- SLOCOG Self-Help Sales Tax Initiative
  - Deferred Maintenance Shortfalls
    - \$79.3 Billion Funding CA Local Roads
    - \$59 Billion State Highway System
  - **Would add ~\$600,000 yrly for CMB Streets**
  - **\$1M for SR1/ MainSt @ SR41 Improvements**
  - **Morro Bay – Cayucos Bike Trail**
- Longer We Wait, the More it Costs
- Option: Borrow with Measure Q revenue



# Funding Concerns



In this conceptual chart, Vehicle Miles Traveled and Fuel Consumption have been indexed to the same starting point in 1994 to enable comparison of the relative change of the two metrics over time



# Real Cost to Taxpayers

**\$44**  
a year

**\$3.66**  
a month

**\$0.84**  
a week

**\$0.12**  
a day

## Return on Investment

 **\$1** =  **\$5**  
spent return

*Source: a 2015 report to the FHWA from national research group TRIP found that for every \$1 spent on transportation, \$5.20 is returned back to the taxpayer when reduced vehicle maintenance costs, gas consumption, traffic delays/crashes and other ancillary benefits are considered.*



# Alternate Funding Options

- Measure J
- Excess (>10%) Emergency Reserve
- Dedicate Additional General Fund to Streets, in-lieu of ???
- Year-end Budget Excess to Street Fund
- Citywide Parcel Tax
- Neighborhood Street Improvement Districts
- Coop Purchase with other Agencies



# Other Streets Activities

- Street Sweeping
- Storm Drain Maintenance – Moving to Utilities Division
- Striping
- Signs
- Pedestrian Facilities
- Bicycle Facilities
- Street Tree Maintenance
- Traffic Calming



»QUESTIONS?



# Neighborhood Traffic Calming

- “Traffic calming is the combination of mainly physical measures that reduce the negative effects of motor vehicle use, alter driver behavior, and improve conditions for non-motorized street users.”



# Traffic Calming Guidelines

- Sound Traffic Engineering
- Public Involvement.
- Not divert traffic to other local or residential streets.
- Address Emergency vehicle access.
- minimize maintenance activities.
- Only State/Federal warning signs.
- Bicycle and pedestrian travel should be enhanced.



# Not Traffic Calming

## Stop Signs

- Assign Rights of Way where otherwise unclear
- Need to meet “Warrants” or State and Federal Specified Conditions
  - Volume – Pedestrian or Vehicle
  - Collision History – Generally five in last 12 months, not including impaired drivers
  - Physical Conditions
- Unwarranted Stop Signs (or any Traffic Control Devices) increase Liability to City
- Unintended consequences of unwarranted Stop Signs
  - Use of alternative routes
  - Noise
  - Air Quality

## Arbitrary speed limits

- not allowed
- Based on Vehicle Code
  - School Zones, Central Business Districts, Residential Local Streets
- or Engineering Traffic Study
  - 85<sup>th</sup> Percentile
  - Enforceability
  - Restudied every 5-10 years



# Neighborhood Traffic Calming Examples

## Passive

- Police Enforcement
- Education
- High Viz-Crosswalks
- Radar Feedback
- Striping
- Turn Restrictions
- Truck Restrictions
- \$0-\$5,000

## Active

- Speed Humps/Tables
- Raised Crosswalks(Alternative Pavement)
- Mini Roundabout/Intersection Circles
- Chockers: Mid Block, Bulbouts, Medians, Chicanes
- Full or Partial Street Closures
- \$15,000 and up

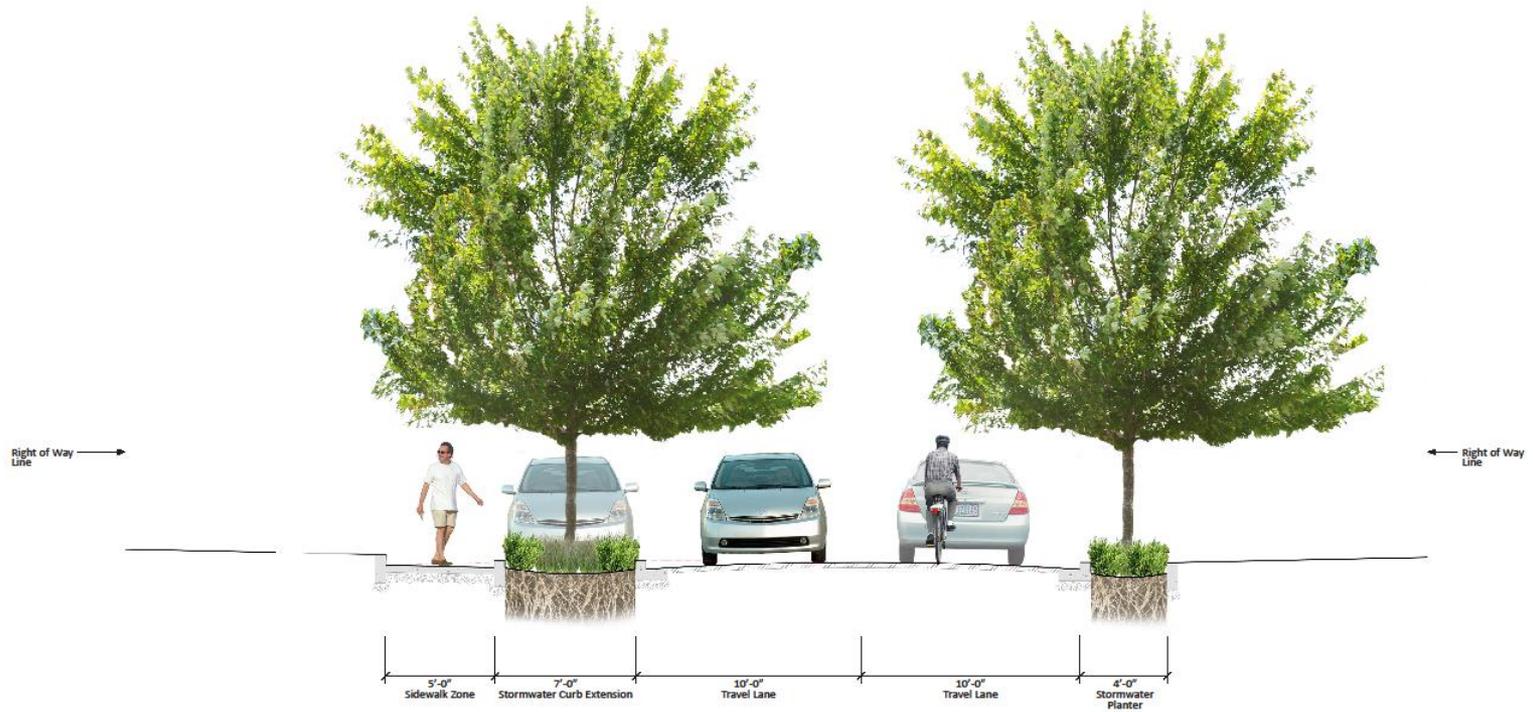


# Traffic Calming – Next Steps

- Small Projects, such as Pacific and Main and San Jacinto and Main
- General Plan Update
  - Circulation Element



# Complete Street Concept



Greenwood Avenue North of Elena - Parking on One-Side

Scale: 1/4"=1'-0"



# Bike & Ped

- Master Plan Adopted February 28, 2012
- Community wide Participation
- Previously Required for the BTA Grant process
- Gap Closure and ADA projects
- Existing Facilities
  - Class I – 3.72 miles
  - Class II – 7.72 miles
  - Class III – The rest of the 54 miles of streets
- Some of the Recommendations
  - Harborwalk Extension and Bridge (Complete)
  - Embarcadero – High School Improvements (Awaiting grant results)
  - Quintana Main (funding)
  - Greenwood (Funding)
  - Other Connections (Funding)
  - Next Steps: General Plan – Complete Streets
- Unmet Needs
- Council Goal Setting and Budgeting



# Stripes and Signs

- Bike Lanes
- Cross Walks
- Stop Bars and Legends
- Parking Tees
- Curbs
- Misc pavement Marking
- Replaced with Street improvements
  - Atascadero Road, plus green lanes
  - Main Street
  - Harbor Street
- Traffic Control
  - Stop
  - Yield
  - Warning
- Other Regulatory/Informational
  - Parking Control
  - Street Name

## Periodic Maintenance

Maintenance Observation

Retro Reflectivity - FHWA

Service Requests

CityWorks for Inventory and scheduling



# Street Sweeping

- Minimum Required by NPDES
- Once a year in most residential areas
- Schedule and Map on City's Web Page
  - [Public Works Page under "Services and Links"](#)
  - <http://www.morro-bay.ca.us/documentcenter/view/8609>



# Storm Drain Maintenance

- Per the City's NPDES Stormwater Permit for Water Quality Issues
- Reactive Maintenance
- Most Corrugated Metal Pipe 40-60 Years Old