

**TO:** Traffic and Transportation Advisory Commission

**FROM:** Jim Mashiko, Senior Engineer

**DATE:** July 26, 2023

**SUBJECT: 2024 Pavement Program (CI 5594) – Pavement Restriping  
Modifications on Nine Road Segments (INFORMATION ITEM)**

**RECOMMENDATION:**

Review engineering report, receive public input, and provide feedback on potential modification of striping or pavement markings to nine streets in conjunction with the upcoming 2024 Pavement Program (CI 5594).

**BACKGROUND:**

The City is responsible for maintaining over 380 miles of roadways. For over two decades, Public Works has made it a practice to consider new traffic striping as part of the City's biennial pavement resurfacing projects, when there is an opportunity to optimize roadway striping from its previous condition to meet current standards, help promote non-vehicular modes of travel, and/or enhance safety for all road users (vehicles, bicycles, and pedestrians). Most roads receive a resurfacing treatment every 10 to 15 years. Implementing striping modifications during road resurfacing projects allows the City to avoid additional costs to remove striping and mobilize field crews that would normally be required when implementing new striping configurations as standalone projects.

Traffic calming striping measures implemented during previous pavement projects included lane reductions (four lanes to two lanes), adding center turn lanes to reduce rear-end conflicts, striping to define parking zones to reduce potential sideswipes with parked vehicles, and striping adjustments to increase line of sight.

In 2022, the City implemented traffic striping modifications on segments of key arterials such as Lynn Road, Reino Road, Via Las Brisas, Conejo Boulevard and Avenida de los Arboles to meet current standards and help promote non-vehicular modes of travel. These changes are generally characterized as "traffic calming" measures where travel lane widths are narrowed, bike lane widths are widened up to eight (8) feet width where possible, buffered bike lane are introduced, green bike lane striping is added, and existing marked pedestrian crosswalks are enhanced.

## **2024 Pavement Program-Restriping Modifications**

**July 26, 2023**

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For 2024, the City has budgeted nearly \$16.5 million to resurface approximately 50 miles of streets (Attachment #1). As part of the 2024 Pavement Project, nine roadway segments have been identified for potential minor restriping modifications which would provide “traffic calming” benefits primarily to bicyclists and pedestrians. The nine road segments include:

1. Hodencamp Road-Yorkshire Avenue: Wilbur Road to Gainsborough Road
2. Keats Avenue at Sirius Street
3. Los Padres Drive: Moorpark Road to Rolling Oaks Drive
4. Pederson Road: Olsen Road to Rustic Glen Drive
5. Rolling Oaks Drive: Moorpark Road to Los Padres Drive
6. Reino Road: Borchard Road to Old Conejo Road
7. Sunset Hills Boulevard: 23 Freeway to Easterly public road terminus
8. Via Merida: Thousand Oaks Boulevard to Via Colinas
9. Westlake Boulevard: Avenida de los Arboles to Autumn Ridge Drive

### **DISCUSSION:**

The following summarizes and describes the proposed “traffic calming” modifications to the nine street segment in the 2024 Pavement Project:

**1. Hodencamp Road-Yorkshire Avenue:** Wilbur Road to Gainsborough Road. Install intermittent Sharrow pavement markings to both sides of the street, as recommended in City’s Active Transportation Plan (25 mph road segment currently has speed humps for speed control). Sharrow pavement markings are white stencils painted on the roadway to indicate that the travel lane is shared by both vehicles and bicycles as depicted in Attachment #2.

**2. Keats Avenue at Sirius Street:** Existing marked crosswalk. Convert yellow school crosswalk to standard white crosswalk and add “shark teeth” yield pavement markings on Keats Avenue in both northbound and southbound directions. In addition, “Yield Here to Pedestrian” signs will be placed next to new pavement markings. See Attachment #3

**3. Los Padres Drive:** Moorpark Road to Rolling Oaks Drive. Staff is investigating the possibility to implement “Traffic Calming Striping”. The existing 35 mph roadway is 46' wide with white skip centerline striping. There is an opportunity to provide new road striping. One possible concept would narrow the 23' wide travel lanes to a configuration beginning from west curb as follows (see Attachment #4):

- 8' wide parking lane
- 6' wide buffer zone
- 12' wide westbound lane
- 12' wide eastbound lane
- 8' feet wide parking lane

**4. Pederson Road:**

- Segment 1: Between Olsen Road and 23 Freeway. Switch the bike lane and buffered bike lane on the northbound side of street so that bike lane is next to curb (currently buffer zone is next to the curb).
- Segment 2: Between 23 Freeway and Rustic Glen Drive. Add buffered bike lane by narrowing travel lanes to 11' width. Bike lane should be minimum 7' width. Existing "2-Hour" parking zone will be eliminated with "No Parking Anytime" signs. Speed limit ranges from 40-45 mph within this segment. See Attachment #5

**5. Reino Road:** Borchard Road to Old Conejo Road. Install intermittent Sharrow pavement markings to both sides of street, as recommended in City's Active Transportation Plan. Roadway is too narrow to provide bike lanes along this 40-mph arterial street. See Attachment #6

**6. Rolling Oaks Drive:** Moorpark Road to Los Padres Drive. Convert standard bike lane to buffered bike lane (minimum 7' wide bike lane width) by narrowing opposing through lanes down to 11' width along this 35-mph roadway. See Attachment #7

**7. Sunset Hills Boulevard:**

- Segment 1: Eastbound segment between 23 Freeway to Erbes Road. Convert the No. 2 lane from a shared through/right turn lane into a right turn only lane at Erbes Road. The majority of traffic in this lane already treat this lane as if it is a right turn only lane. The eastbound bike lane will shift to the left of the right turn only lane at the intersection (consistent to Road Standards Plate 7-4 titled "Standard Green Bike Lane Markings"). Green bike lane markings will be added to the left side of the eastbound right turn lane. See Attachment #8.
- Segment 2: Erbes Road to Avenida Amaranto (40 mph speed limit). Convert the No. 2 travel lane into a buffered bike lane featuring a minimum 7' wide bike lane for the eastbound direction. Roadway has excess capacity and already operates as a single lane roadway east of Avenida Amaranto. Westbound segment will convert the standard bike lane to a buffered bike lane by narrowing through lanes to 11' width. See Attachment #9.
- Segment 3: Avenida Amaranto to the easterly road terminus (40 mph speed limit) will convert standard bike lane to a buffered bike lane in each direction by narrowing travel lane to 11' width, provide minimum 7' width within bike lane, with remaining width devoted to buffer zone. See Attachment #10.

**8. Via Merida:** Thousand Oaks Boulevard to Via Colinas. Provide wider bike lanes by narrowing existing travel lane from 13' width to 11'. This will increase bike lanes width to 7' from existing 5' along this 45-mph roadway. See Attachment #11

**Westlake Boulevard:** Avenida de los Arboles to Autumn Ridge Drive (within the No. 2 lane, 45 mph road segment). Narrow the wide through lanes and convert the existing bike lane to 8' wide buffered bike featuring a 11' wide buffer zone. This 72' curb to curb section will be repurposed to provide 8' bike lanes, 11' wide buffer zone, and 11' wide travel lane each direction, plus a 12' wide center painted median. See Attachment #12

Changing road striping during the City's annual resurfacing project has been a practice for over 20 years and a cost effective and efficient way to implement bicycle lanes, lane narrowing, buffered bike lanes, sharrow pavement markings, etc., to incorporate City's Active Transportation Plan's recommendations. Updating road striping also demonstrates the City's commitment to providing for a "complete streets" network of roads that balances the needs of all road users (bicyclists, pedestrians, and vehicles), promotes the use of all forms of transportation, and improves air quality.

Staff recognizes that the pandemic has led to increased recreational walking and bicycling activity as part of residents' lifestyle routines. With the 2024 Pavement Program scheduled to begin construction in Spring 2024, the traffic calming strategies identified in this report also address citywide vehicle speeding concerns and increased measures to enhance bicycle and pedestrian safety.

Radar speed measurements along the roadways described in this report will be measured approximately three months after the implementation of the new striping to determine if adjustments to the posted speed limits are warranted.

**PREPARED BY:** Jim Mashiko, Senior Engineer

**Attachments:**

Attachment #1 – Location Map

Attachment #2 – Hodencamp Road-Yorkshire Avenue: Wilbur to Gainsborough Road

Attachment #3 – Keats Avenue at Sirius Street

Attachment #4 – Los Padres Drive: Moorpark Road to Rolling Oaks Drive

Attachment #5 – Pederson Road: Olsen Road to Rustic Glen Drive

Attachment #6 – Reino Road: Borchard Road to Old Conejo Road

Attachment #7 – Rolling Oaks Drive: Moorpark Road to Los Padres Drive

Attachment #8 – Sunset Hills Boulevard: Segment 1

Attachment #9 – Sunset Hills Boulevard: Segment 2

Attachment #10 – Sunset Hills Boulevard: Segment 3

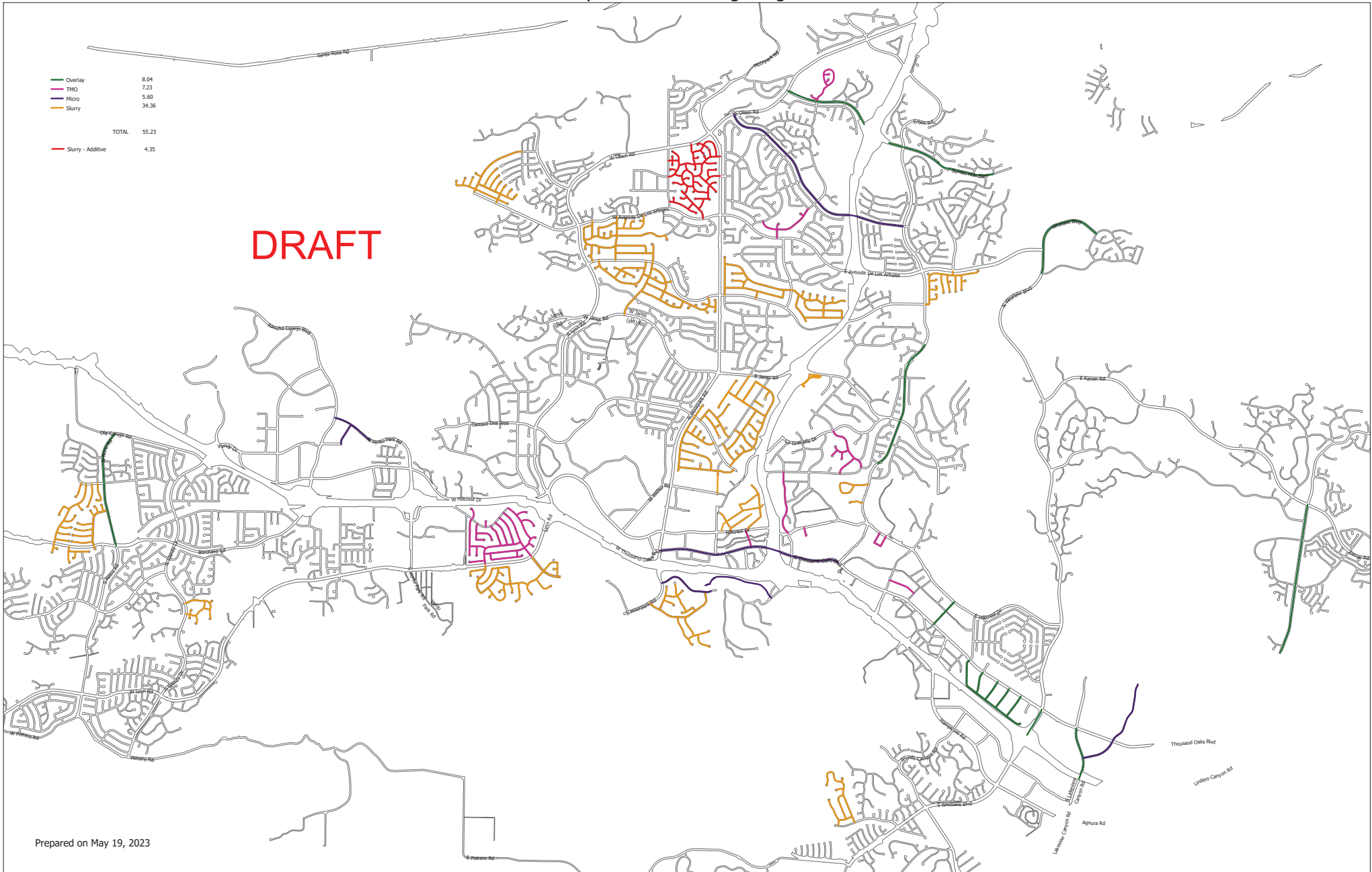
Attachment #11 – Via Merida: Thousand Oaks Boulevard to Via Colinas

Attachment #12 – Westlake Boulevard: Ave de los Arboles to Autumn Ridge Drive

# 2024 Pavement Overlay and Resurfacing Program - CI 5594 and MI 2261

DRAFT

|                   |              |
|-------------------|--------------|
| Overlay           | 8.04         |
| THO               | 7.23         |
| Micro             | 5.60         |
| Slurry            | 34.36        |
| <b>TOTAL</b>      | <b>55.23</b> |
| Slurry - Additive | 4.35         |



Prepared on May 19, 2023

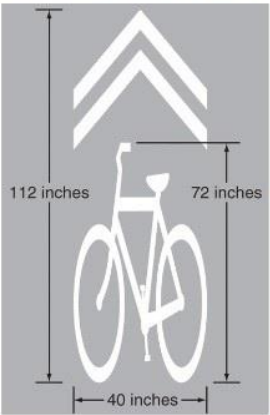


2024 Pavement Project

Hodencamp Road – Yorkshire Avenue



Hodencamp Road-  
Yorkshire Avenue  
  
Typical road cross  
section.



**Install Sharrow pavement  
markings at intermitant  
intervals between Wilbur Road  
to Gainsborough Road.**

## 2024 Pavement Project

### Keats Avenue at Sirius Street Crosswalk



1. Add "sharkteeth" yield pavement markings in advance of crosswalk + "Yield Here to Pedestrians (symbol)" sign.
2. Replace yellow crosswalk with standard white crosswalk.



## 2024 Pavement Project

### Los Padres Drive Moorpark Road to Rolling Oaks Drive

#### Concept Plan to Add Roadway Striping





## 2024 Pavement Project

### Pederson Road: Olsen Road to 23 Freeway



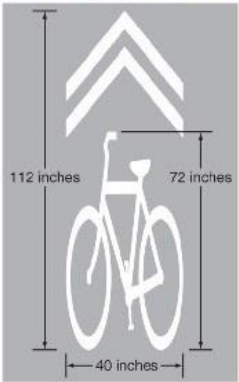
### Pederson Road: 23 Freeway to Rustic Glen Drive





2024 Pavement Project

Reino Road: Borchard Road to Old Conejo Road



Install Sharrow pavement markings at intermittent intervals between Borchard Road and Old Conejo Road.



## 2024 Pavement Project

### Rolling Oaks Drive: Moorpark Road to Los Padres Drive





## 2024 Pavement Project

### Sunset Hills Boulevard: 23 Freeway to Erbes Road



1. Convert #2 eastbound lane to a right turn only lane at Erbes Road.
2. Bike lane shifts to the left side of right turn only lane. Will resemble striping example shown below at westbound Avenida de los Arboles at Erbes Road.



Example of bike lane to  
left of right turn only lane.



## 2024 Pavement Project

### Sunset Hills Boulevard: Erbes Road to Avenida Amaranto



Add new buffered bike lane by narrowing both westbound through lanes to 11' width.

Convert the eastbound number #2 travel lane into a buffered bike lane featuring a minimum 7' wide bike lane for the eastbound direction. All through traffic accommodated in #1 travel lane.

Convert the number #2 eastbound travel lane into a buffered bike lane featuring a minimum 7' wide bike lane for the eastbound direction. All through traffic accommodated in #1 travel lane.

## 2024 Pavement Project

### Sunset Hills Boulevard: Avenida Amaranto to Easterly Terminus





## 2024 Pavement Project

### Via Merida: Thousand Oaks Boulevard to Via Colinas





## 2024 Pavement Project

### **Westlake Boulevard: Avenida de los Arboles to Autumn Ridge Drive**

