CHARLESTON/ARASTRADERO CORRIDOR PROJECT

ARASTRADERO ROAD AND MIRANDA AVENUE TO CHARLESTON ROAD TO FABIAN AVENUE

INTRODUCTION

The planning of the Charleston-Arastradero project began in 2003 and has 14 years of stakeholder outreach and active engagement to date. The conceptual plan line for the corridor was approved by City Council unanimously in September 2015. At this time, the project design is approaching 65% completion, and it is anticipated that the design will be finalized in August 2017. The project will be scheduled according to two phases due to its significant scope, grant award timelines and other factors.

The 2.3-mile Charleston-Arastradero Corridor is a heavily used, residential, four-lane arterial road, serving as an east-west connector for the southern section of the City of Palo Alto (City). This corridor services 11 schools, several parks, shopping centers, community centers, senior living facilities and a library. The corridor has little to no traffic calming features, lacking protection for bicyclists and pedestrians, which is particularly an issue during peak traffic hours. For years, residents and other stakeholders have expressed their concerns regarding safety for pedestrians, bicyclists, and drivers; lack of integration with the surrounding community; and diminished community value due to minimal vegetation and tree in the right-of-way.

EXISTING CONDITIONS

Prior to the re-striping trials, the corridor's configuration consisted of two lanes in each direction with wide, primarily impervious, roadway and sidewalks. Since the trials were approved by the City Council is 2008 and 2012, the corridor has one lane in each direction and a third lane for left turn movements along the corridor. The "median" areas are currently painted islands. The Charleston-Arastradero Corridor Project serves to turn these painted islands into permanent

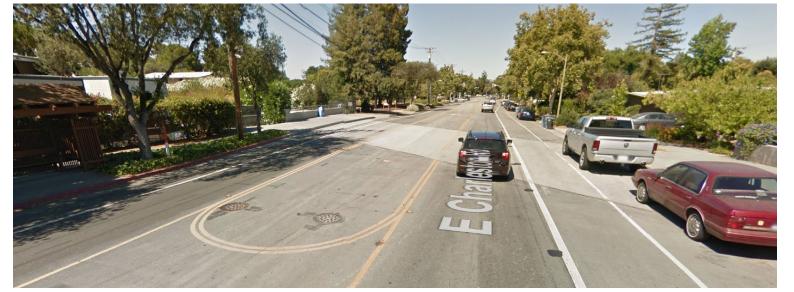
hardscape or landscaped areas.

The existing corridor has more than 750,000 SF of asphalt with minimal landscaping and no Green Stormwater Infrastructre (GSI) features in the right-of-way. The Arastradero Road portion of the corridor in particular has few existing street trees to define the edge of the corridor and/or shade frontage sidewalks. All project work will be contained within the existing 80-86' right-of-way (which includes the 60-foot curb-to-curb street width plus existing sidewalks, and vegetation and GSI features) along the corridor and the existing rights-of-way at each of the 10 signalized intersections.



El Camino Real looking from Charleston Road. Below: Existing trial pavement parkings at Arastradero Road and Coulombe Drive. Bottom: Charleston Road near Herbert Hoover Elementary School.





SCOPE OF WORK

The City's objective is to address the needs of the nearby residents and surrounding community, who have requested an improved corridor with slower speeds, safer conditions for pedestrians and bicyclists, and various vegetation treatment improvements to improve aesthetic quality of the corridor and improve water quality.

The goals and benefits of the Charleston-Arastradero project are as follows:

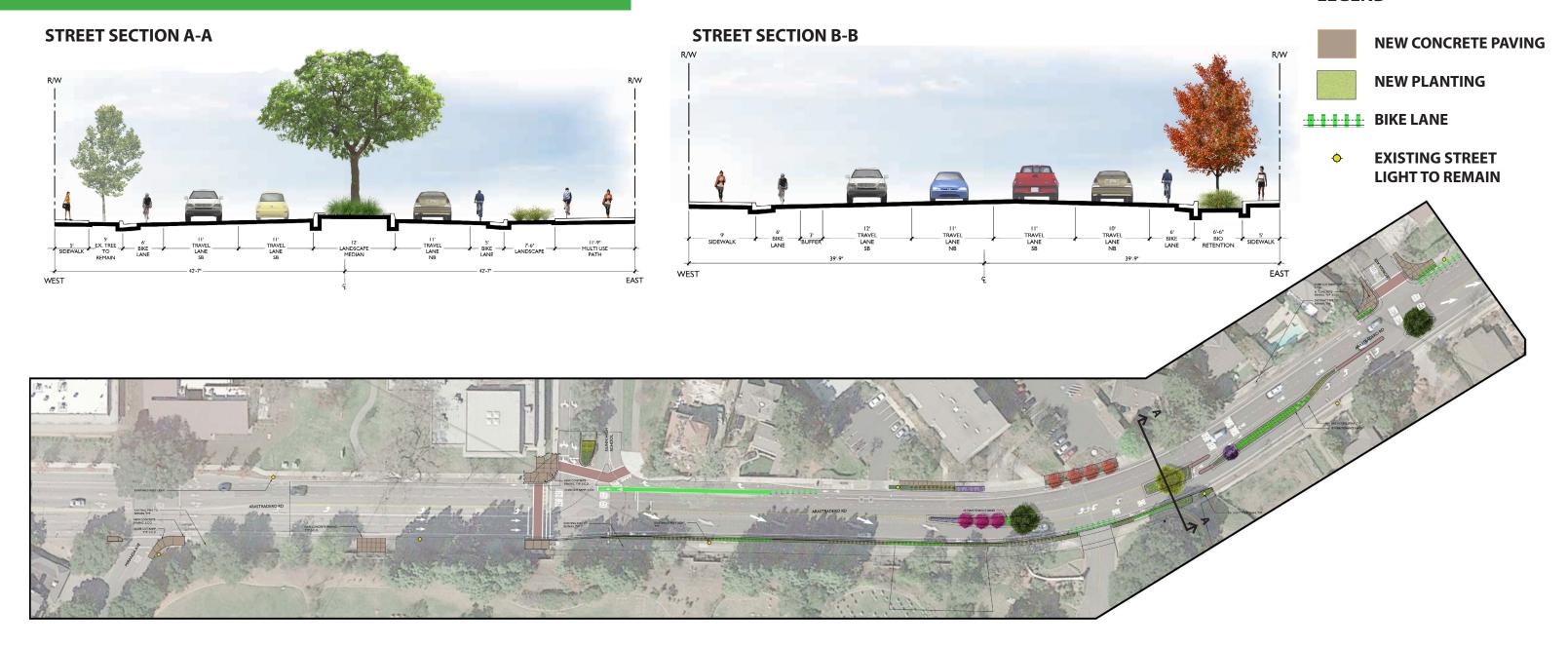
- enhance streetscape and quality of life in the corridor for local residents and surrounding community by incorporating landscaped medians, street trees and other streetscape improvements, and GSI;
- enhance school commute safety for K-12 students, and improve the quality of bike and pedestrian experience through new design features such as bulb-outs, widened sidewalks, additional cross-walks, modifications to intersection geometry, and enhanced bike lanes and facilities; and
- reduce the amount of very high speed vehicles by incorporating the above-mentioned improvements that serve to enhance roadway safety and operational issues.

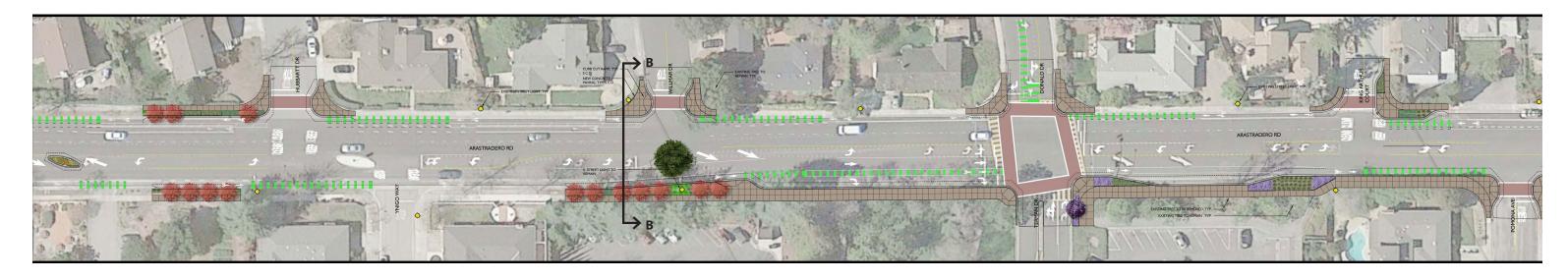
The project adds approximately 140 trees, 5,800 shrubs, groundcover, and grasses, and 16,000 bio-retentions plants. These plants are scattered through the 42,000 SF of added landscaped medians, bulb-outs, and bio-retention areas. Landscape plantings are a mix of native, low-water use, and low-maintenance species.

The project serves to replace painted "medians" with landscape or hardscaped areas to prevent cars from taking dangerous turns and also to protect bicyclists and pedestrians. Pavement markings are also being used to highlight pedestrians and bicyclists for drivers. The corridor has a dedicated or buffered bike lanes and green bike lanes. Yellow high-visibility crosswalks are used in areas close to schools.

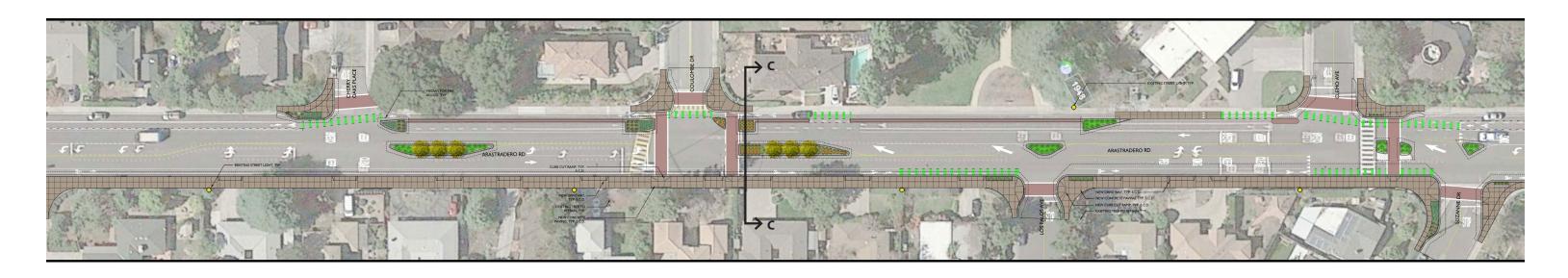
ARASTRADERO ROAD - MIRANDA AVE TO POMONA AVE

LEGEND

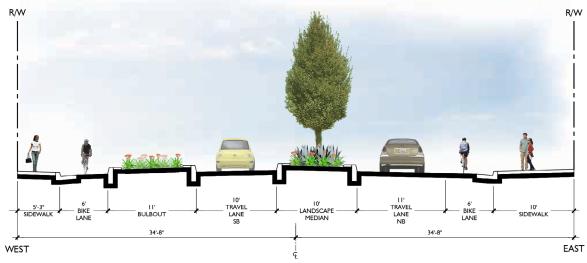




ARASTRADERO ROAD - POMONA AVE TO EL CAMINO REAL









LEGEND



NEW CONCRETE PAVING



NEW PLANTING

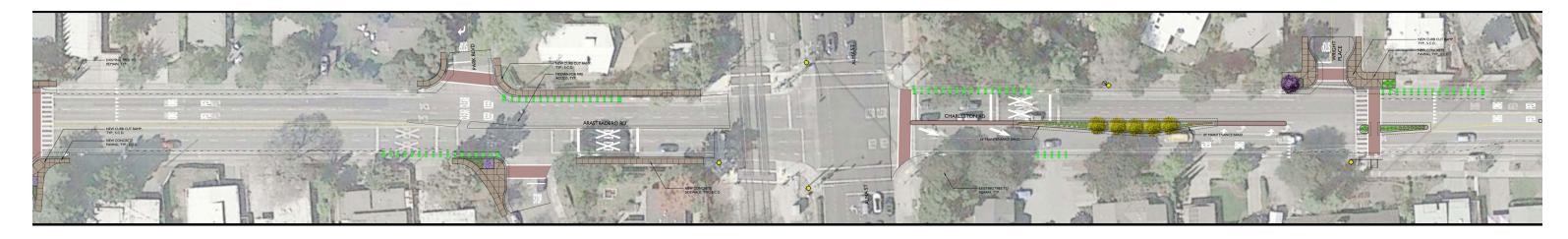


BIKE LANE

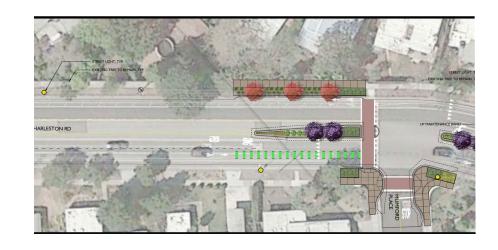
EXISTING STREET LIGHT TO REMAIN

CHARLESTON ROAD - EL CAMINO REAL TO MUMFORD PLACE





STREET SECTION D-D



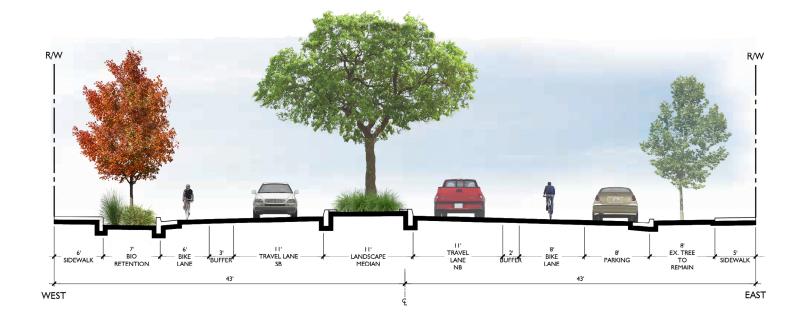
LEGEND



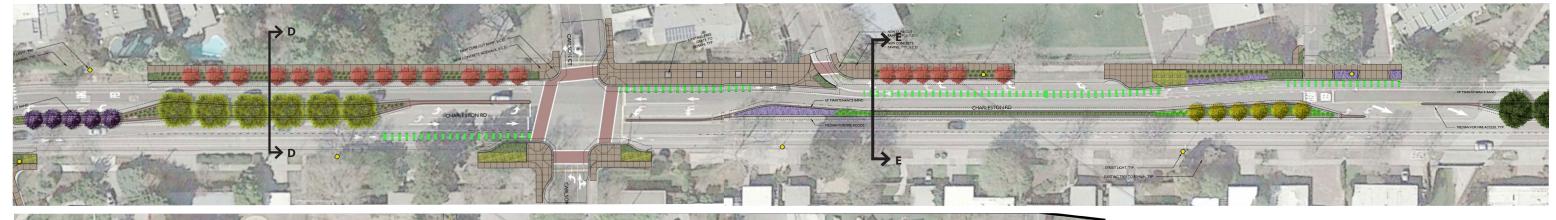
NEW PLANTING

BIKE LANE

EXISTING STREET LIGHT TO REMAIN



CHARLESTON ROAD - MUMFORD PLACE TO SUTHERLAND DRIVE





LEGEND

NEW

NEW CONCRETE PAVING



NEW PLANTING

BIKE LANE

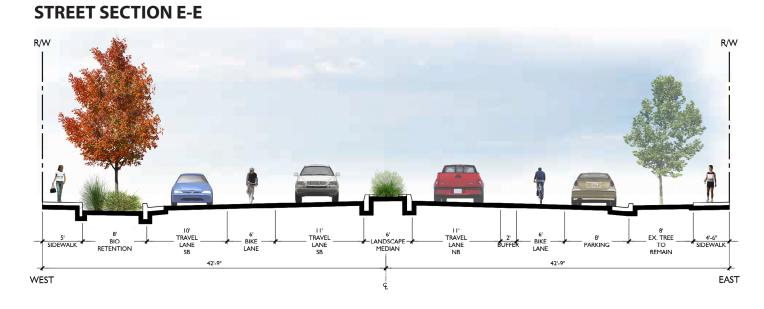
EXISTING STREET LIGHT TO REMAIN

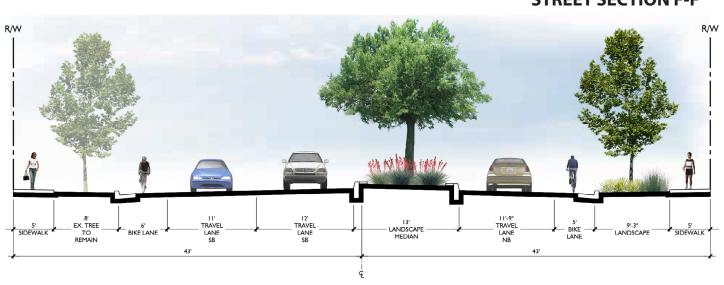


STREET SECTION D-D

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STREET SECTION F-F





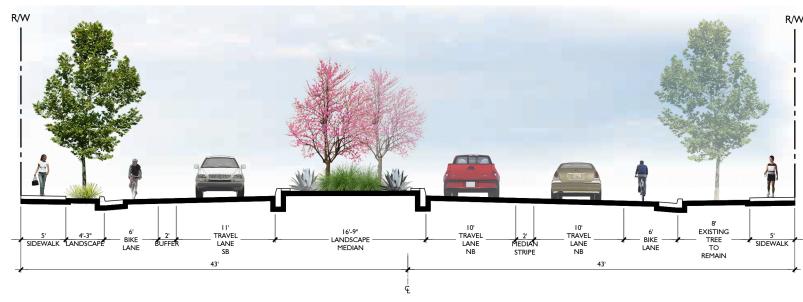
CHARLESTON ROAD - SUTHERLAND DRIVE TO FABIAN WAY



NEW PLANTING

BIKE LANE

EXISTING STREET LIGHT TO REMAIN



PLANT PALETTE

TREES

STREET TREES





Cork Oak



Carpinus betulus 'Fastigiata' European Hornbeam



COLUMNAR TREE

Western Redbud

ACCENT TREES



Crape Myrtle



Scarlet Maple



Variegated Flax Lily

Chondropetalum t. 'El Campo' Small Cape Rush

BIORETENTION PLANTINGS



Carex pansa California Meadow Sedge



Carex praegracilis California Field Sedge



Pine Muhly

SHRUBS AND GROUNDCOVERS

LOW PARKWAY AND MEDIAN PLANTING (3' AND UNDER)





Elymus condensatus 'Canyon Prince' Canyon



Mahonia eurybracteata 'Soft Caress' Oregon Grape





Iris douglasiana Pacific Coast Iris



Mimulus cardinalis Scarlet Monkey Flower





Sea Lavender

Salvia clevelandii

Cleveland Sage





Lomandra longifolia 'Breeze' Dwarf Mat Rush

Westringia fruticosa 'Morning Light Coast Rosemary

Baby Bliss Flax Lily





Lomandra longifolia 'Platinum Beauty' Dwarf Mat Rush



Color Guard Adam's Needle

SITE ELEMENTS

MEDIAN MAINTENANCE BAND





RAIN GARDENS













Hesperaloe parviflora False Yucca

