

DRAFT 10.05.15

**FORT ORD REUSE AUTHORITY**  
**REGIONAL URBAN**  
**DESIGN GUIDELINES**

**D R A F T**



# DRAFT

# FORT ORD

## REGIONAL URBAN DESIGN GUIDELINES

A collaboration between:

**FORA Regional Urban Design Guidelines Taskforce**

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**... along with hundreds  
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- chapter 2**      **Regional Guidelines**



# 1

## Introduction & How to Use These Guidelines

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# Building the Vision

## Base Reuse Plan

The Fort Ord Reuse Authority (FORA) adopted a state and federally required Base Reuse Plan (BRP) in 1997. Under state law, FORA is responsible for planning, financing, and implementing reuse and recovery programs described in the 1997 BRP.

The 1997 BRP *“The vision for the future of the former Fort Ord is that a community will grow up on the former Base, having a special character and identity. This community, at the same time, will fit with the character of the Peninsula, complementary with the scale and density of the existing communities from Marina to Carmel. It will demonstrate a respect for the special natural environment of the Peninsula and the scenic qualities of the Bay, coastal dune areas, and upland reaches. It will also be complementary to the rich tradition and reality of agriculture in the Salinas Valley, which forms such an important part of the regional character and economy, while enhancing the experience of visitors to the Peninsula. Most importantly, the community will be a special place for living and working. It will provide a diversity of experience and opportunity, with a development approach that is sustainable and appropriate.”*

- Base Reuse Plan, p. 56

## Design Principles

The following BRP Design Principles were included to guide former Fort Ord land development:

- **Design Principle 1.** Create a unique identity for the community around the educational institutions.
- **Design Principle 2.** Reinforce the natural landscape setting consistent with Peninsula character.
- **Design Principle 3.** Establish a mixed-use development pattern with villages as focal points.
- **Design Principle 4.** Establish diverse neighborhoods as the building blocks of the community.
- **Design Principle 5.** Encourage sustainable practices and environmental conservation.
- **Design Principle 6.** Adopt regional urban design guidelines.

-Base Reuse Plan, p. 56-61



## Design Guidelines

The Design Guidelines are intended to apply to centers, gateways, corridors and trails. The BRP refers to these Design Guideline areas in terms of how they affect community form:

*“Community form should be well defined and discernible.”*

-Base Reuse Plan, p. 62, Community Form

Visual quality and character of centers, gateways, corridors and trails are critical to regionally cohesive character of existing and new developments. Village and Town centers as much as possible should:

- *“Maintain the fine-grained development pattern of existing areas of the Main Garrison.*
- *Encourage a development pattern which mixes uses horizontally and vertically for an active streetscape.*
- *Encourage a scale and pattern of development which is appropriate to a village environment and friendly to the pedestrian and cyclists.*
- *Minimize the scale of streets to facilitate pedestrian movement while providing adequate circulation and parking opportunities.*
- *Create strong physical linkages from the villages to the CSUMB campus and other major activity areas.”*

-Base Reuse Plan, p. 65

# Regional Urban Design Guideline Areas

## Design Principle 6: Regional Urban Design Guidelines

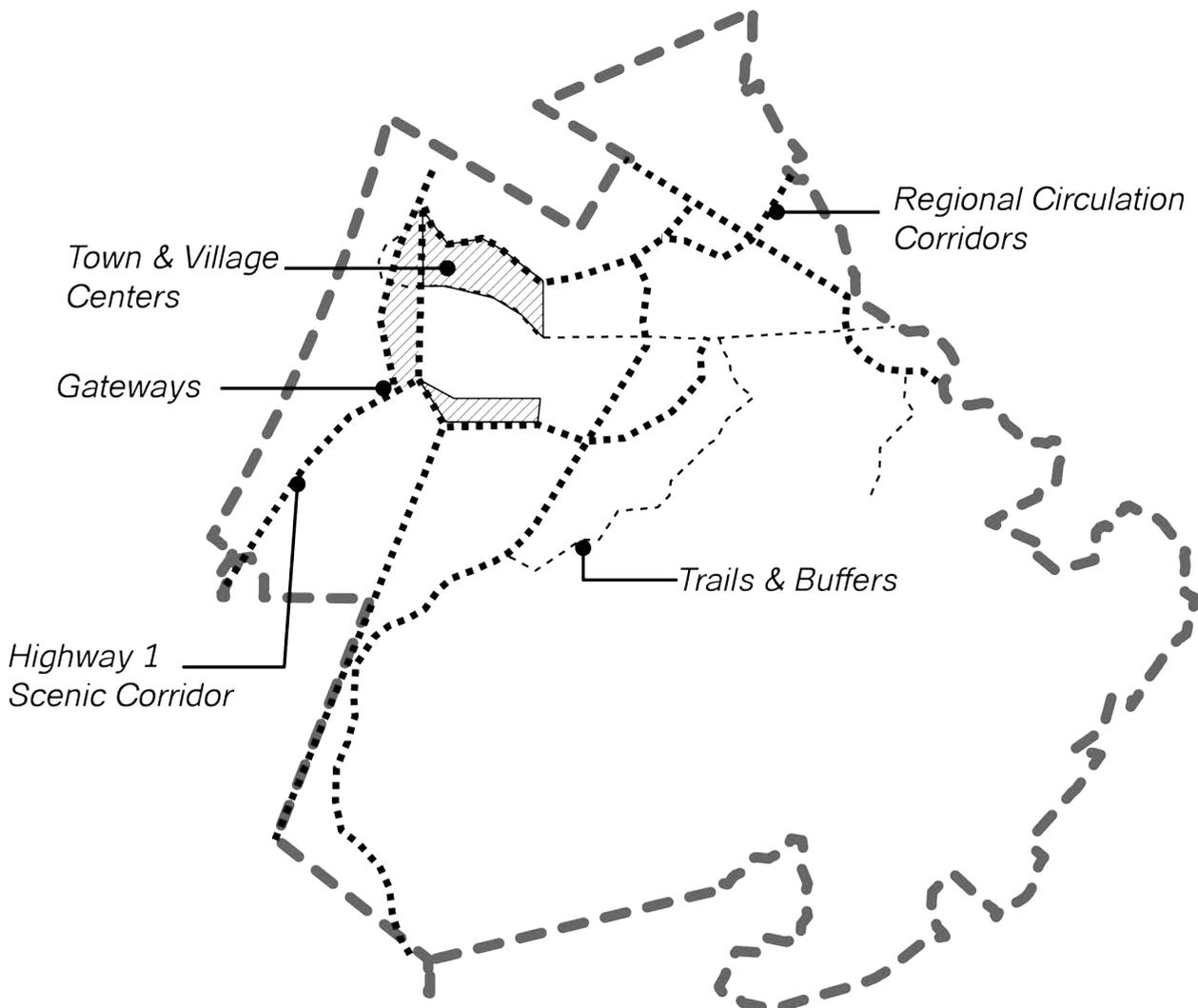
*“Adopt Regional Urban Design Guidelines. The visual character of the Monterey Peninsula plays a major role in supporting the area’s attractiveness as a destination for many visitors every year. The location of the Fort Ord property is such that it functions much like a gateway to Peninsula attractions such as the beach and dunes area which will be a state park; the communities of Monterey, Pacific Grove, Carmel; and the Carmel Valley, Big Sur and points south. Maintaining the visual quality of this gateway to the Peninsula and where necessary enhancing it is of regional importance to ensure the economic vitality of the entire Peninsula.*

*Regional urban design guidelines will be prepared and adopted by FORA as a separate implementation action to govern the visual quality of the following areas of regional importance. The guidelines will address the State Highway 1 Scenic Corridor, the freeway entrances to the former Fort Ord are from State Highway 1 (12th Street and the Main Gate areas) and from the east, areas bordering the public accessible habitat-conservation areas, major through roadways such as Reservation Road and Blanco Road, as well as other areas to be determined. The urban design guidelines will establish standards for road design, setbacks, building height, landscaping, signage, and other matters of visual importance.”*

-Base Reuse Plan, p. 61

These Design Guidelines set general standards for the following BRP identified focus areas:

- **Centers**
- **Gateways**
- **Corridors**
- **Trails**



# Policy Application

The BRP required the development of these Design Guidelines to ensure that new development across former Fort Ord lands be cohesive, attractive, functional and sustainable. The Guidelines but must also meet FORA's land use jurisdictions individual community development objectives.

Since 1994, the US Army and FORA have transferred ownership to multiple jurisdictions. The FORA Board has the responsibility to review and certify the underlying jurisdiction's legislative land use documents (General Plan, Specific Plan, Zoning Code) and project specific entitlements for consistency with the BRP. Once adopted by the FORA Board, these Design Guidelines will be utilized for land use actions within the former Fort Ord area as follows:

1. Where a local agency has existing legislative land use documents determined consistent with the BRP by the FORA Board, the local agency may apply Fort Ord Regional Urban Design Guidelines (the result would be a design related recommendation).
2. Where the local agency submits an amendment to a legislative land use document for a FORA BRP consistency determination, FORA shall apply the Design Guidelines in determining consistency (the result would be a design related measure).
3. Where a local agency submits a project level/development entitlement for a FORA BRP consistency determination, the project is subject to the local agency's legislative land use documents in effect at the time the project was approved by the local agency.

“The urban design guidelines will establish standards for

- road design,
- setbacks,
- building height,
- landscaping,
- signage,
- and other matters of visual importance.”

–Base Reuse Plan, p. 61

## How to Use the Design Guidelines:

1. Locate a specific reuse site in “Where Guidelines Apply” in Chapter 1. Determine if the identified area includes a center, gateway, corridor, or trail.
2. Where a local agency submits a legislative land use document or an amendment for a BRP consistency determination FORA shall apply the design guidelines in determining consistency (design-related measure).
3. Determine Design Guideline applicability to your site.

## For Additional Information:

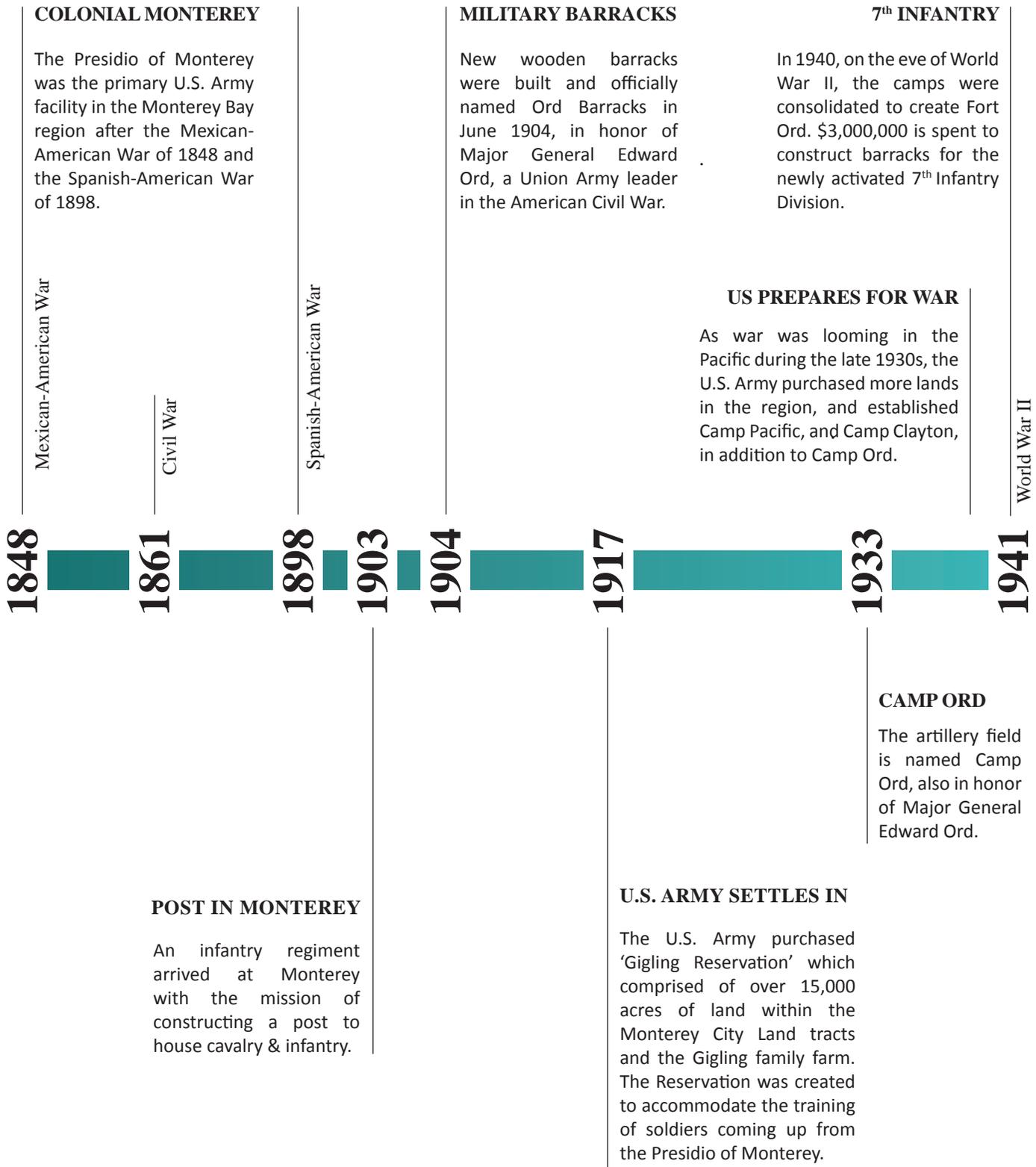
- Consult *Design Fort Ord*:
- For encouraged, but non-binding, approaches to complying with the Design Guidelines;
- To review the economic basis of the Design Guidelines; and
- To understand the public process that generated the Design Guidelines.

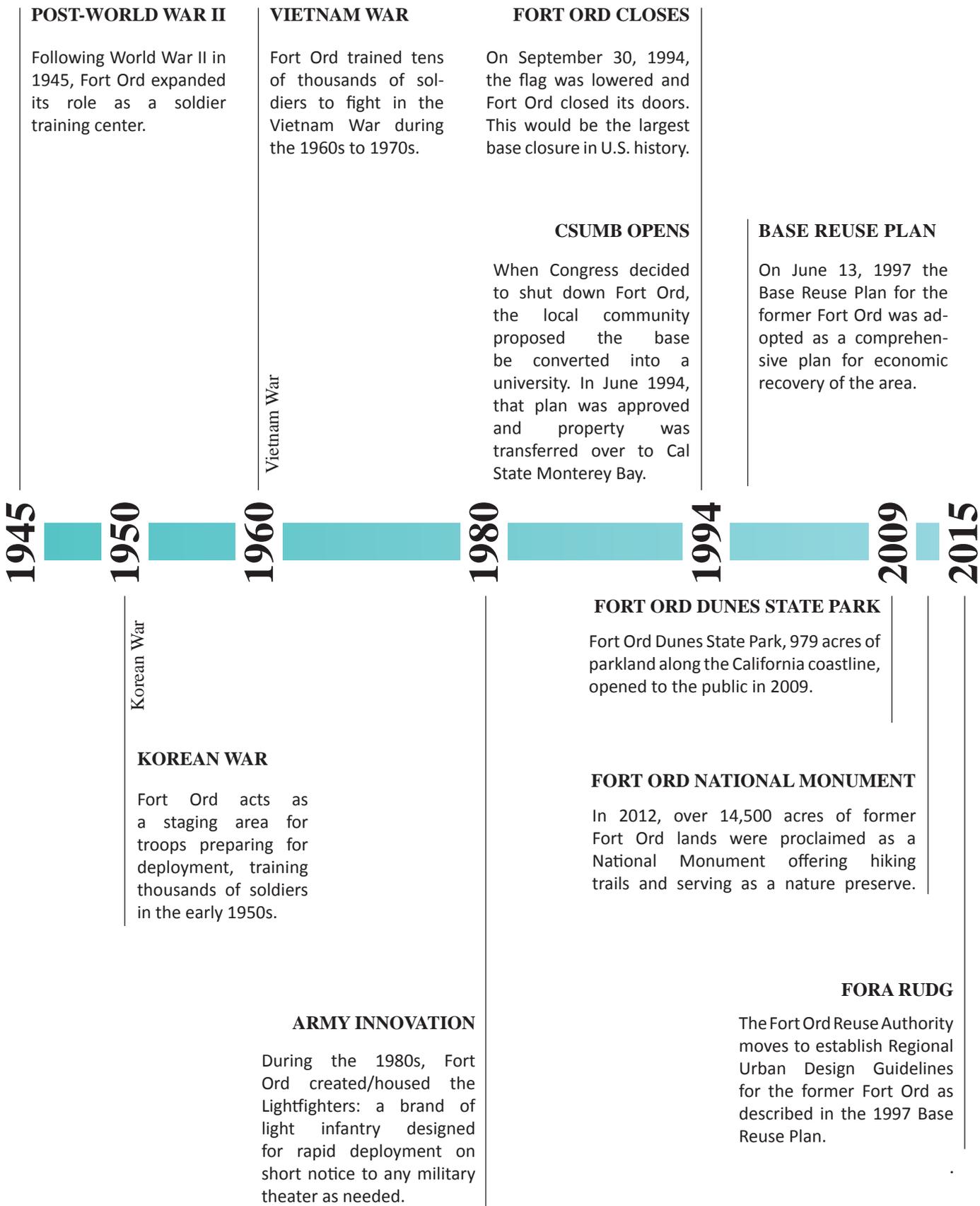
## References

- **Legal:** Authority Counsel Memorandum, April 2, 2015
- **Definitions:** Master Resolution Chapter 8, Section 1.01.050
- **Consistency Determination Criteria:** Master Resolution, Chapter 8, Section 8.01.020
- **Vision:** Base Reuse Plan, Page 56-61



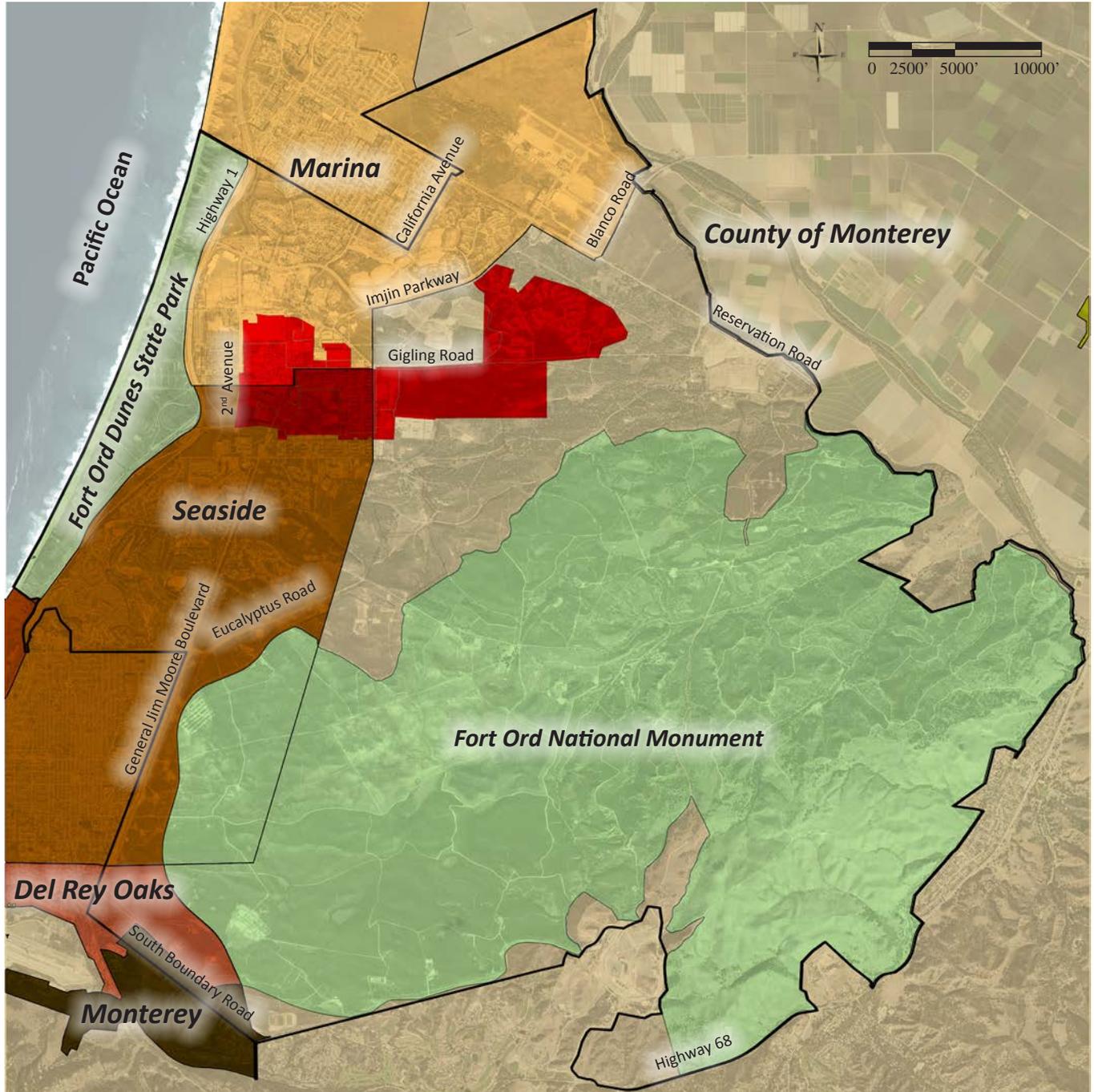
# Regional Context: Historic Timeline





# Regional Context: Jurisdictions

## Former Fort Ord Municipalities



Once the transfer of former FORA Fort Ord lands are complete the parcels that were formally Fort Ord will be part of the adjoining jurisdictions.

### Legend

- |  |  |   |
|--|--|---|
|  City of Seaside      |  County of Monterey         |  Sand City        |
|  City of Marina       |  Fort Ord Dunes State Park  |  City of Monterey |
|  City of Del Rey Oaks |  Fort Ord National Monument |  CSUMB            |

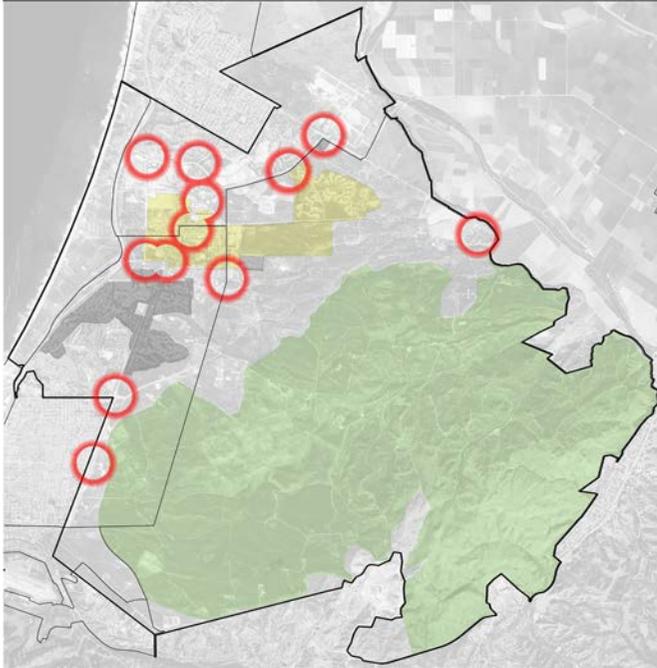


Historic aerial photograph of Fort Ord as an operating base.

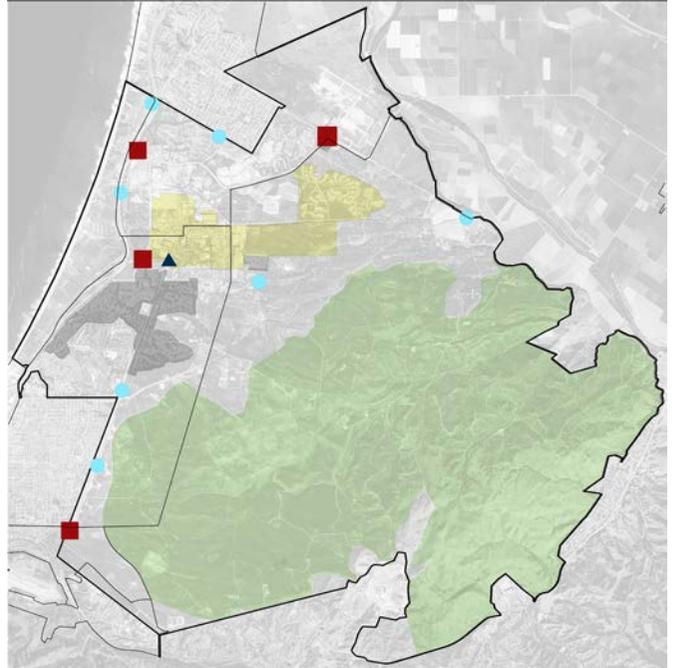
# Focus Areas

These Regional Urban Design Guidelines guide the visual quality and character of physical improvements within centers, gateways, corridors, and trails areas. Maps, text descriptions and ideal design characteristics of each focus areas are described on the following pages.

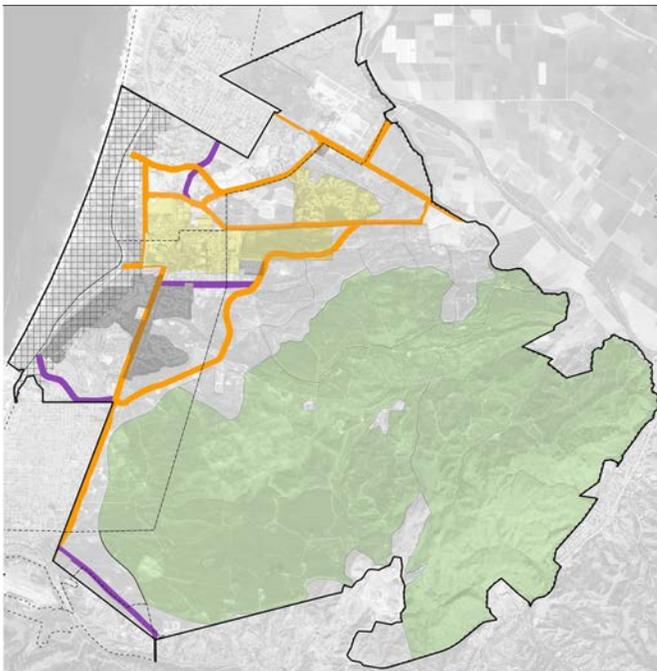
### Centers Overview Map



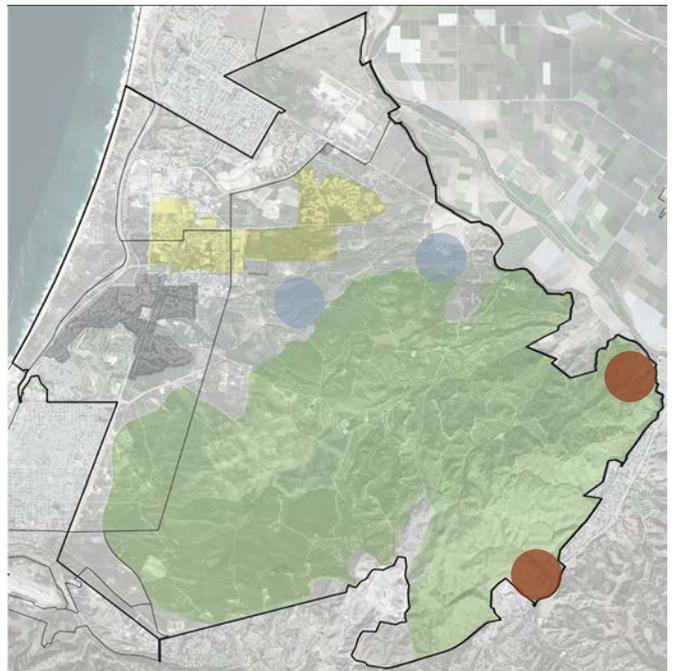
### Gateways Overview Map

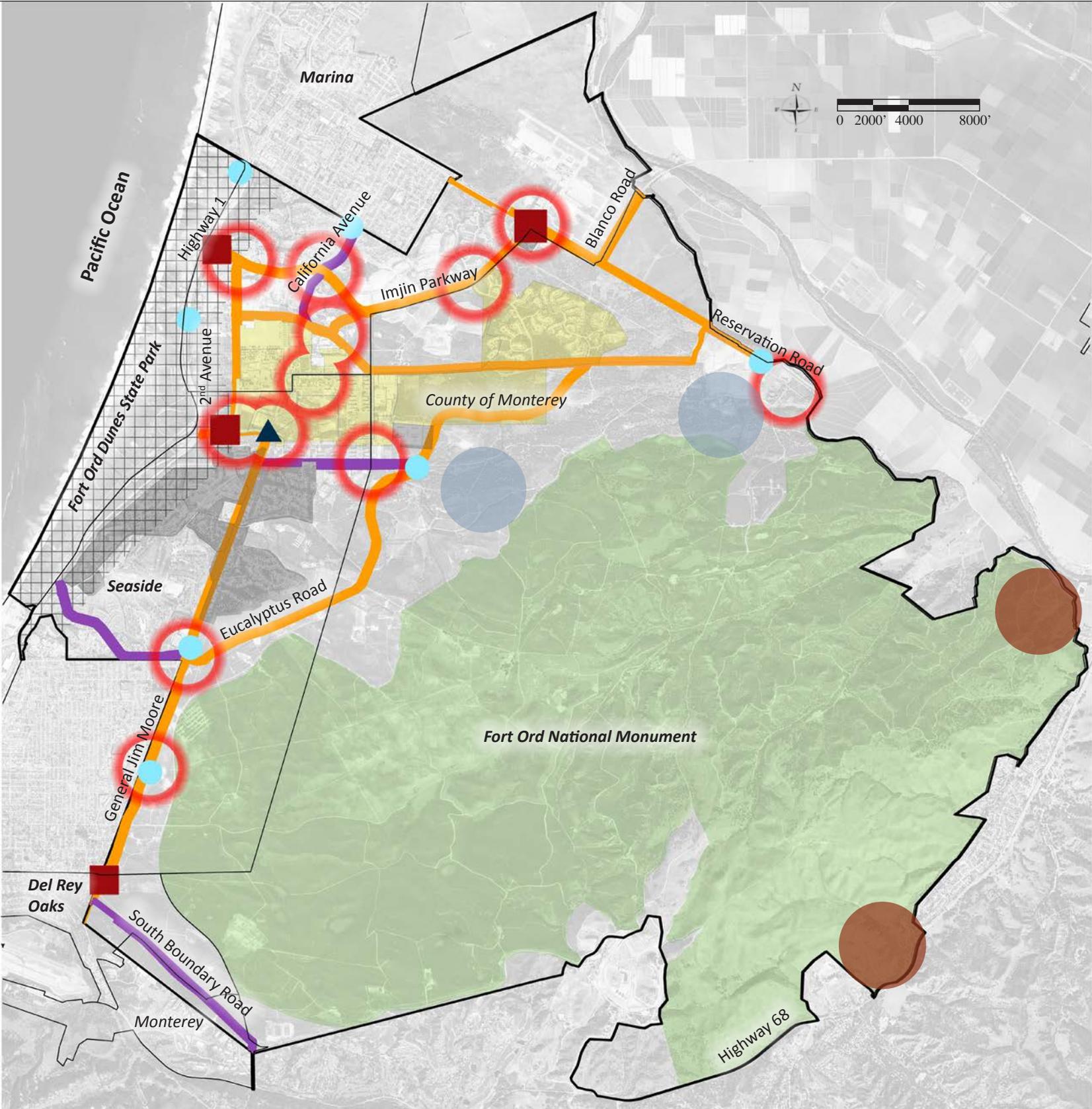


### Corridors Overview Map



### Trailheads Overview Map





## Combined Center, Gateway, Corridor & Trailhead Overview Map

### Legend

- |  |                    |  |                     |  |                                      |
|--|--------------------|--|---------------------|--|--------------------------------------|
|  | Centers            |  | Primary Corridors   |  | Highway 1 Guidelines Area            |
|  | Primary Gateways   |  | Secondary Corridors |  | BLM Natural Resource Management Area |
|  | Secondary Gateways |  | Formal Trailhead    |  | Military/DoD Area                    |
|  | CSUMB Signage      |  | Informal Trailhead  |  | CSUMB Area                           |

# Centers

## What is an ideal center?

Although the parameters of an ideal center vary in terms of size, density, and mix of dwelling types; there are five basic design conventions that provide a common thread linking great centers.

### 1. Identifiable Center and Edge.

A proper center has places where the public feels welcome and encouraged to congregate. Typically, at least one outdoor public environment exists at the center that spatially acts as the well-defined outdoor room in the center.

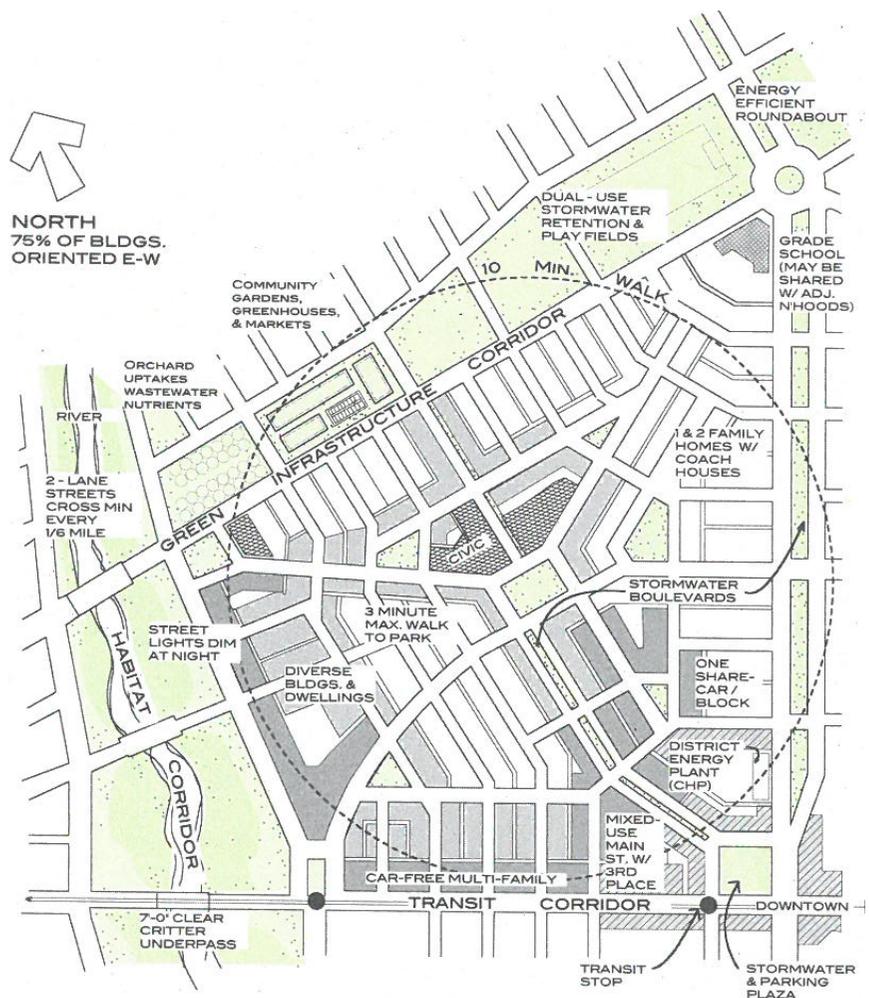
### 2. Walkable Size.

The overall size of a center should be suitable for walking. Most people will walk approximately one-quarter mile before turning back or opting to drive or ride a bike. Civic spaces requiring a great deal of acreage such as schools and playfields can be situated where they can be shared.

### 3. Mix of Land Uses and Housing Types.

Great centers have a fine-grained mix of land uses and housing types. This condition enables residents to live, work, socialize, exercise, shop and find some daily needs and services within walking distance.

Mixing uses is a powerful way to alleviate traffic congestion, as it reduces the number of car trips needed throughout the day. A mix of housing is better socially, allowing people with diverse lifestyles and incomes to live in the same neighborhood. Residents have the choice to move elsewhere within their community as their housing needs change over time, while families of modest means are no longer forced into segregated concentrations. In addition, households with varied schedules and interests will activate the neighborhood at different times of day, adding both to the vibrancy and security of a place.



The Sustainable Neighborhood Diagram shows how the traditional neighborhood block, coupled with new infrastructure, added mix and density of housing, and new transit modes can serve our modern needs.

Source: *Sustainable Urbanism: Urban Design with Nature*, p. 126, Fig. 7-3

## Opportunity Sites

Town & Village Centers are currently\* envisioned at the following locations:

- 2<sup>nd</sup> Avenue / Imjin Parkway
- California Street / Imjin Parkway
- 8<sup>th</sup> Street / Imjin Road
- Abrams Drive / Imjin Parkway
- 2<sup>nd</sup> Avenue / Lightfighter Drive
- Lightfighter Drive / General Jim Moore Boulevard
- Surplus II (Gigling / Col Durham / Gen Jim Moore / 8<sup>th</sup> Street)
- CSUMB Quad
- Imjin Parkway / Reservation Road (Marina Airport)
- Reservation Road at East Garrison (East Garrison)
- Gen Jim Moore Boulevard/ Eucalyptus Road
- Gen Jim Moore Boulevard/ Broadway Avenue

\*New centers could emerge over the course of time.

**4. Integrated Network of Walkable Streets.**

A network of streets allows pedestrians, cyclists, and motorists to move safely and comfortably through a neighborhood. The maximum average block perimeter to achieve an integrated network is 1,500 feet with a maximum uninterrupted block face of ideally 450 feet, with streets at intervals no greater than 600 feet apart along any one single stretch.

A street network forms blocks that set up logical sites for private development, provides routes for multiple modes of transportation, and provides non-motorized alternatives to those under the driving age as well as for senior citizens. Streets should be designed to be walkable first while also serving cars and emergency vehicles. Slow traffic speeds, coupled with features such as narrow curb-to-curb cross sections, street trees, on-street parking, buildings close to the street edge, and tight turning radii at the street corners, all work together to create highly walkable environments. An interconnected web of streets then allows for numerous driving patterns and the orderly management of traffic.

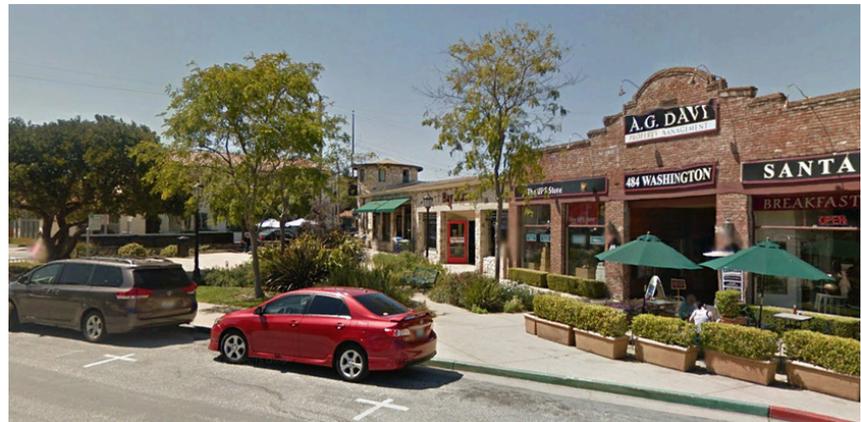
**5. Special Sites are reserved for Civic Purposes.**

In complete neighborhoods, some of the best real estate is set aside for community purposes. These locations are made significant by the geometry of the town plan. Unique settings such as terminated vistas or locations with greater activity should be reserved for landmark buildings that will act as anchors for community pride. Similarly, special sites should be set aside for parks, greens, squares, plazas, and playgrounds (each of which has its own distinct character). Each neighborhood should have at least one special gathering place at its center, such as a village green.

Applicable Guidelines	Design Guidelines
Walkable Streets	Page 2.4
Identifiable Centers	Page 2.18
Street Connectivity	Page 2.22
Fronts Face Front	Page 2.24
Scale of Public Space	Page 2.26
Primacy of Open Spaces	Page 2.28
Mix of Building Types	Page 2.30

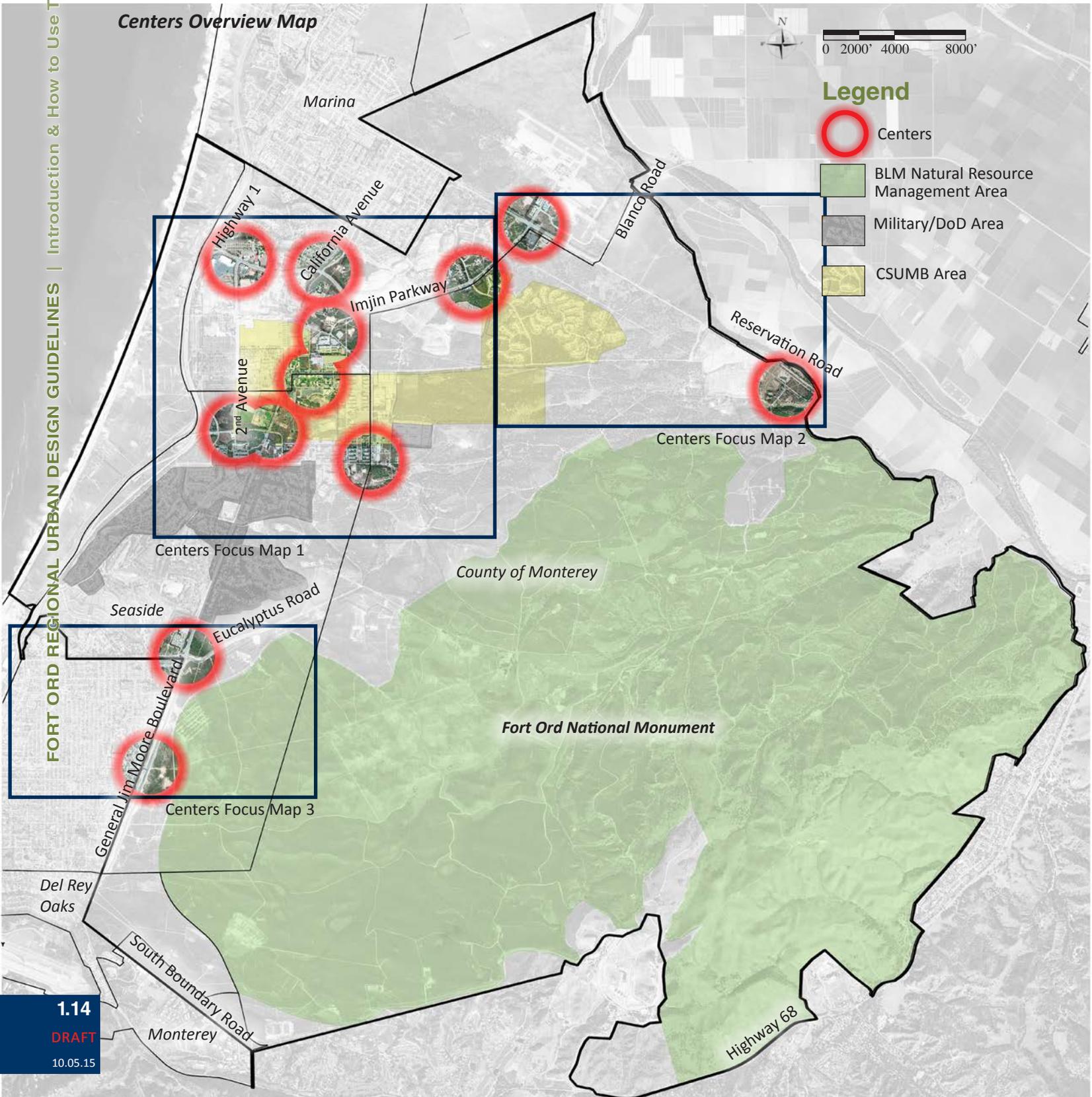
**One great plaza can create a center.**

At the corner of Abrego & Pearl Streets in Monterey is a square that’s less than a half an acre. It is thoughtfully paved, planted, has places to sit and, most importantly, is faced by buildings.



Centers are the main points of interest in settlements. Centers act as gathering spaces for residents and visitors. Centers should include a variety of uses, including commercial, retail, and residential, aligned with effectively designed public spaces and amenities. The Centers Overview map and the Focus Area Maps, below, suggest a number of sites that could be developed as Centers.

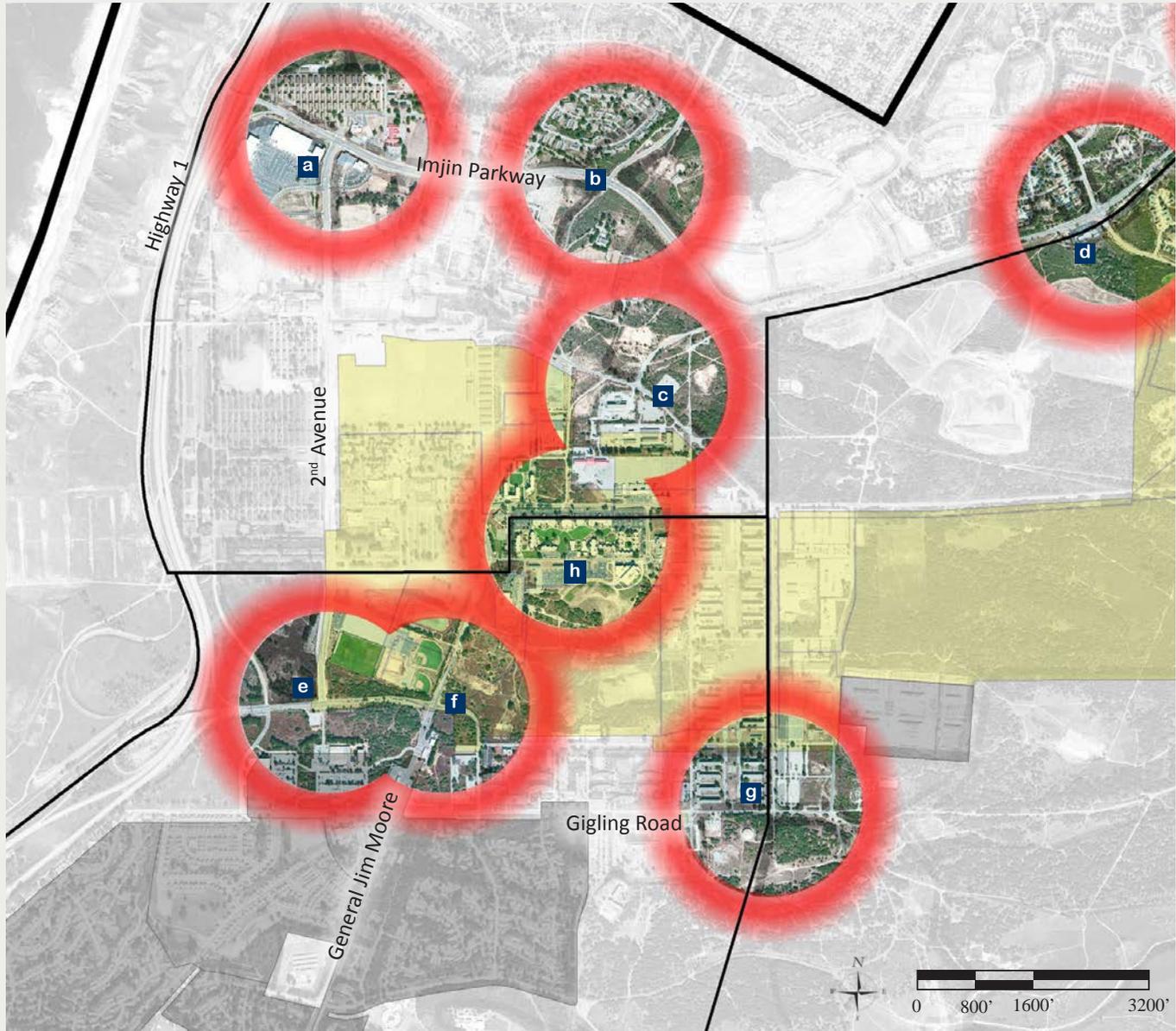
### Centers Overview Map



Village and town centers are intended to be located near areas of ‘concentrated activity’ such as the California State University at Monterey Bay (CSUMB):

*“The major centers will be located in the vicinity of the CSUMB campus, capitalizing on the inherent high level of activity and vitality of the campus.”*

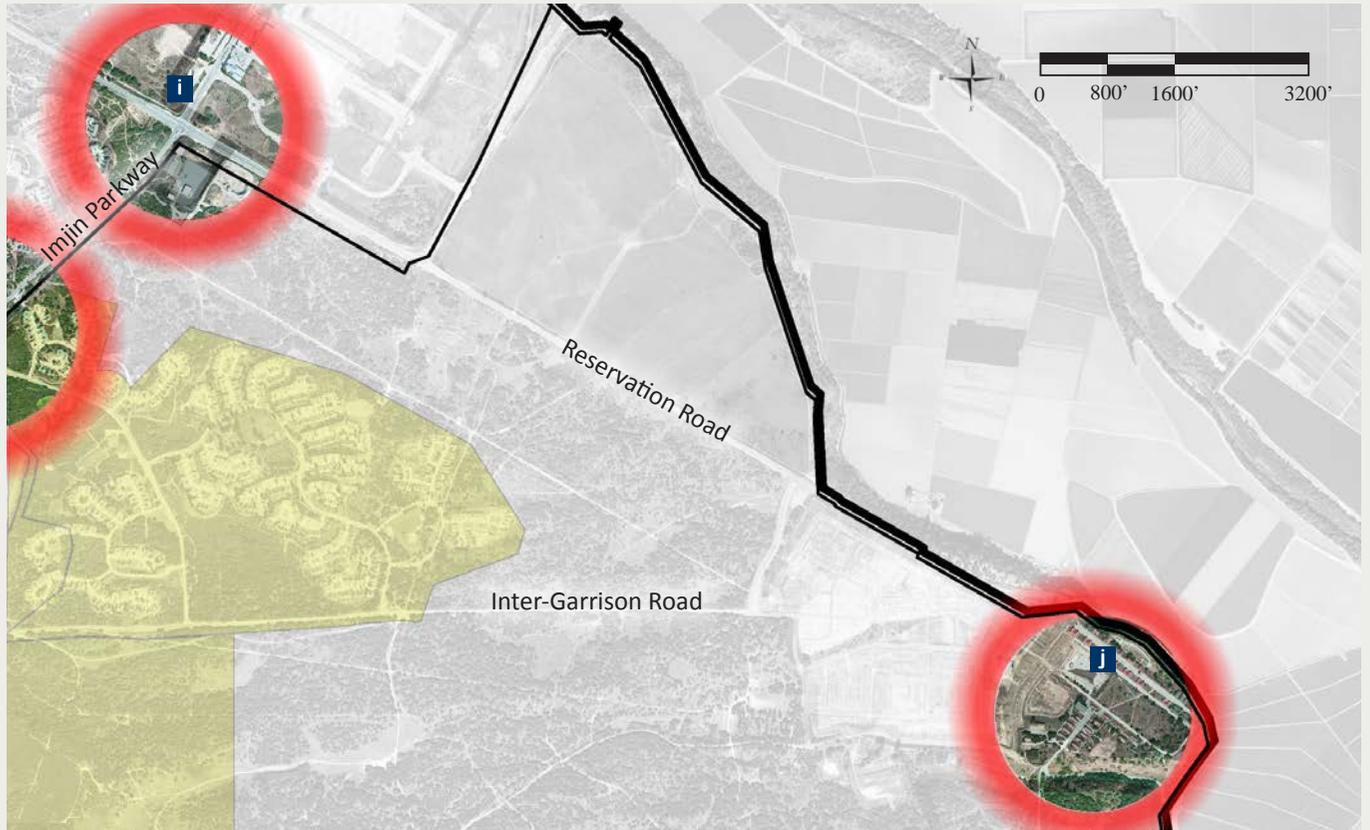
*-Base Reuse Plan, p. 63, Town and Village Centers*



Centers Focus Map 1

**Legend**

- |  |  |  |
|--|--|--|
| <p><b>a</b> 2<sup>nd</sup> Avenue/Imjin Parkway<br/><i>Exit off of Highway 1 and intersection of major roads</i></p> | <p><b>e</b> 2<sup>nd</sup> Avenue/Lightfighter Drive<br/><i>Exit off of Highway 1 and intersection of major roads</i></p>            |  Centers                              |
| <p><b>b</b> California Street/Imjin Parkway<br/><i>Intersection of major roads</i></p>                               | <p><b>f</b> Lightfighter Drive/Gen. Jim Moore Boulevard<br/><i>Exit off of Highway 1 and intersection of major roads</i></p>         |  BLM Natural Resource Management Area |
| <p><b>c</b> 8<sup>th</sup> Street/Imjin Road<br/><i>Intersection of major roads</i></p>                              | <p><b>g</b> Surplus II (Gigling/Col Durham/Gen Jim Moore Boulevard/8<sup>th</sup> Street)<br/><i>Intersection of major roads</i></p> |  Military/DoD Area                    |
| <p><b>d</b> Abrams Drive/Imjin Parkway<br/><i>Intersection of major roads</i></p>                                    | <p><b>h</b> CSUMB Quad<br/><i>Center of campus life</i></p>  |  CSUMB Area                           |



Centers Focus Map 2



Centers Focus Map 3

### Legend

- |   |  |   |   |   |   |   |            |
|---|--|---|---|---|---|---|------------|
|  | Centers  |  | BLM Natural Resource Management Area  |  | Military/DoD Area   |  | CSUMB Area |
| <b>i</b>  | Imjin Parkway/Reservation Road<br><i>Entrance to Marina Airport</i>  | <b>k</b>  | General Jim Moore Boulevard/Eucalyptus Road<br><i>Intersection of major roads</i> | <b>l</b>  | General Jim Moore Boulevard/Broadway Avenue<br><i>Intersection of major roads</i> |   |            |
| <b>j</b>  | Reservation Road at East Garrison<br><i>Entrance to Neighborhood</i> |   |   |   |   |   |            |



### New Fort Ord National Monument Signage Unveiling by Bureau of Land Management

A significant portion of the former Fort Ord has been preserved as the Fort Ord National Monument. This vast swath of California hills is managed by the U.S. Department of Interior's Bureau of Land Management (BLM), whose new offices will be located next to the Fort Ord Reuse Authority on Imjin Parkway. The sign being unveiled in this picture will serve to mark the location of the new BLM offices and also serves as a wayfinding sign, as it will point to the proximity of the Monument.

# Gateways

## What is an ideal gateway?

The entrance, or gateway, into a city, neighborhood, or significant park can vary in form and scale. There are three basic details that create a memorable gateway.

### 1. Design Element.

Gateways are marked by a design element. The design element could be a sign that instructs, advises, or informs people. In time, the Ford Ord National monument will need both wayfinding signs and signs of arrival and departure. Similarly, new uses within former Fort Ord should announce themselves. However, the Base Reuse Plan envisions gateways especially as reminders of the history of Fort Ord. When one travels from Highway 1 onto Imjin Parkway or onto Lightfighter Drive they should know that they are entering former Fort Ord Lands.

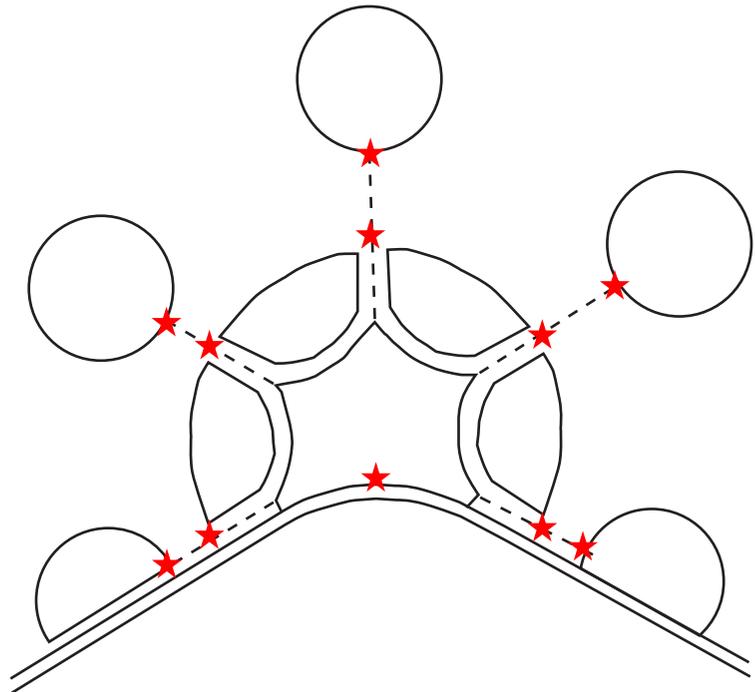
### 2. Welcoming.

Gateways are welcoming. Military gateways were designed to exclude the unauthorized guest while contemporary gateways in the urban planning sense, are intended to welcome them. They are the first and sometimes the last experience a visitor has of a place. They should be welcoming of visitors no matter what their way of entering: by car, bicycle or on foot.

### 3. Identifiable Edge.

Gateways delineate the edge. The first gateways were bridges or walls into new towns. New settlement on former Fort Ord lands aspires to be connected more than differentiated, however, there will remain natural boundaries and undeveloped areas as well as a variety of uses like campuses, shopping destinations, residential areas, military areas and natural areas. For these reasons the gateways will serve a wayfinding purpose and help orient visitors to where they have arrived.

★ Gateway



This diagram shows how multiple gateways can welcome visitors from various locations. Each of these Gateways can have a unique style that reflects the local character.

Source: *Town Planning in Practice*

## Opportunity Sites

Gateways are currently\* envisioned on the following locations:

- North Highway 1
- California Avenue
- Imjin Parkway
- 8<sup>th</sup> Street
- Lightfighter Drive
- CSUMB Signage
- Gigling Road
- Imjin Parkway / Reservation Road
- Reservation Road at East Garrison
- Eucalyptus Road
- Broadway Avenue
- South Boundary Road Realignment

\*New gateways could emerge over the course of time. Additional gateways subject to Design Guidelines would be specifically Board approved.

Applicable Guidelines	Design Guidelines
Customized Gateways	Page 2.16



#### Gateway to the California State University at Monterey Bay Campus

This sign marks the entrance to the campus at the corner of General Jim Moore and Lightfighter Boulevard. It combines rustic and formal elements with rough stone along the pedestal and smooth surfaces and a capitalized font across the sign face. A blue wave crests at the words “Monterey Bay.” This sign clearly communicates to visitors that they have arrived at a campus that’s proud of its proximity to the coast.



#### Gateway to Mammoth Lakes

The materials and design aesthetic of the gateway at Mammoth Lakes embody the rustic and natural characteristics of a rugged park. Stone, steel and wood are durable materials that still present “warm”, naturalistic hues. The sign’s “mammoth” size marks ones’ arrival at a major destination. The size also allows the opportunity for visitors to take memorable pictures as a souvenir of their visit.

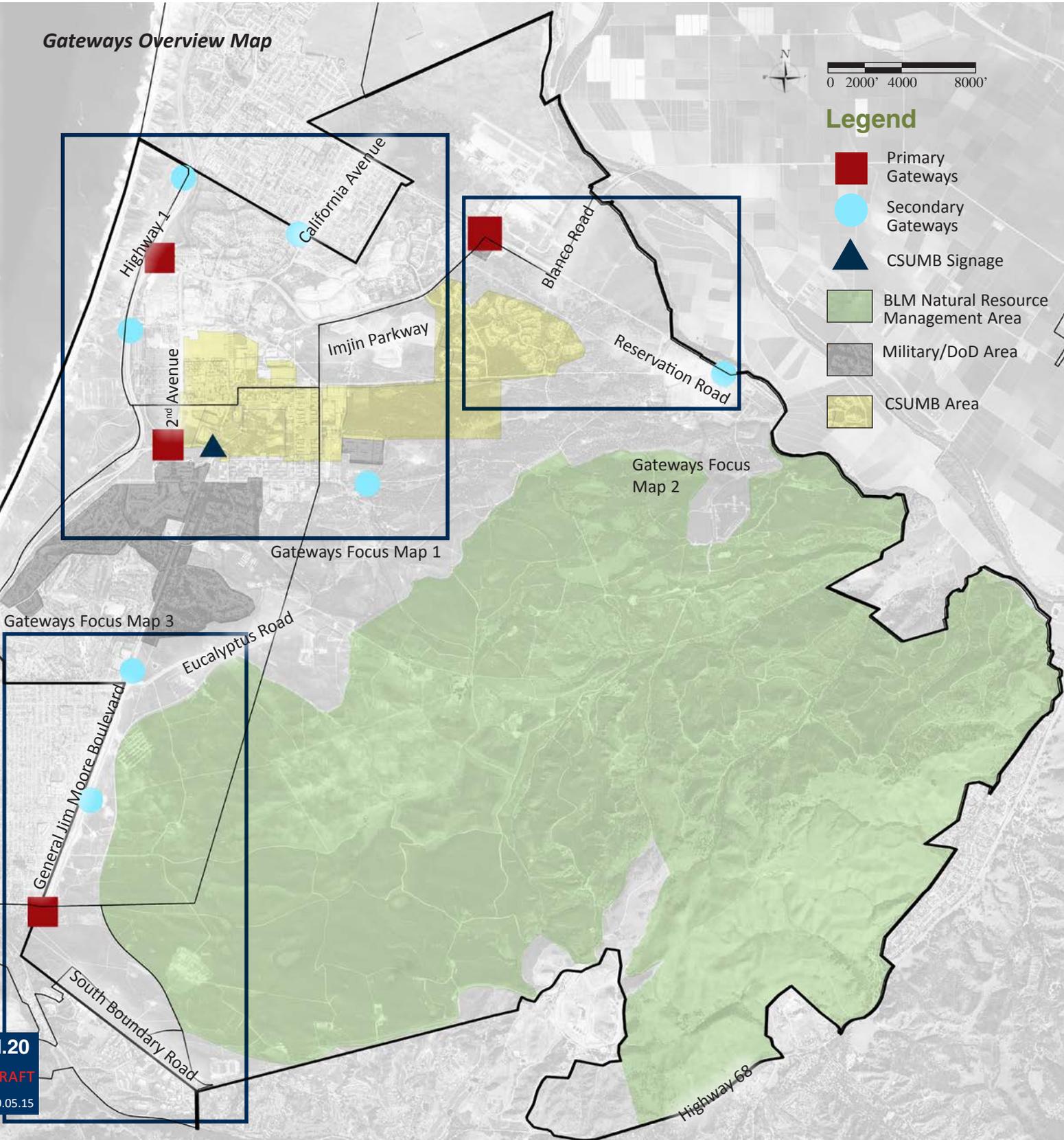


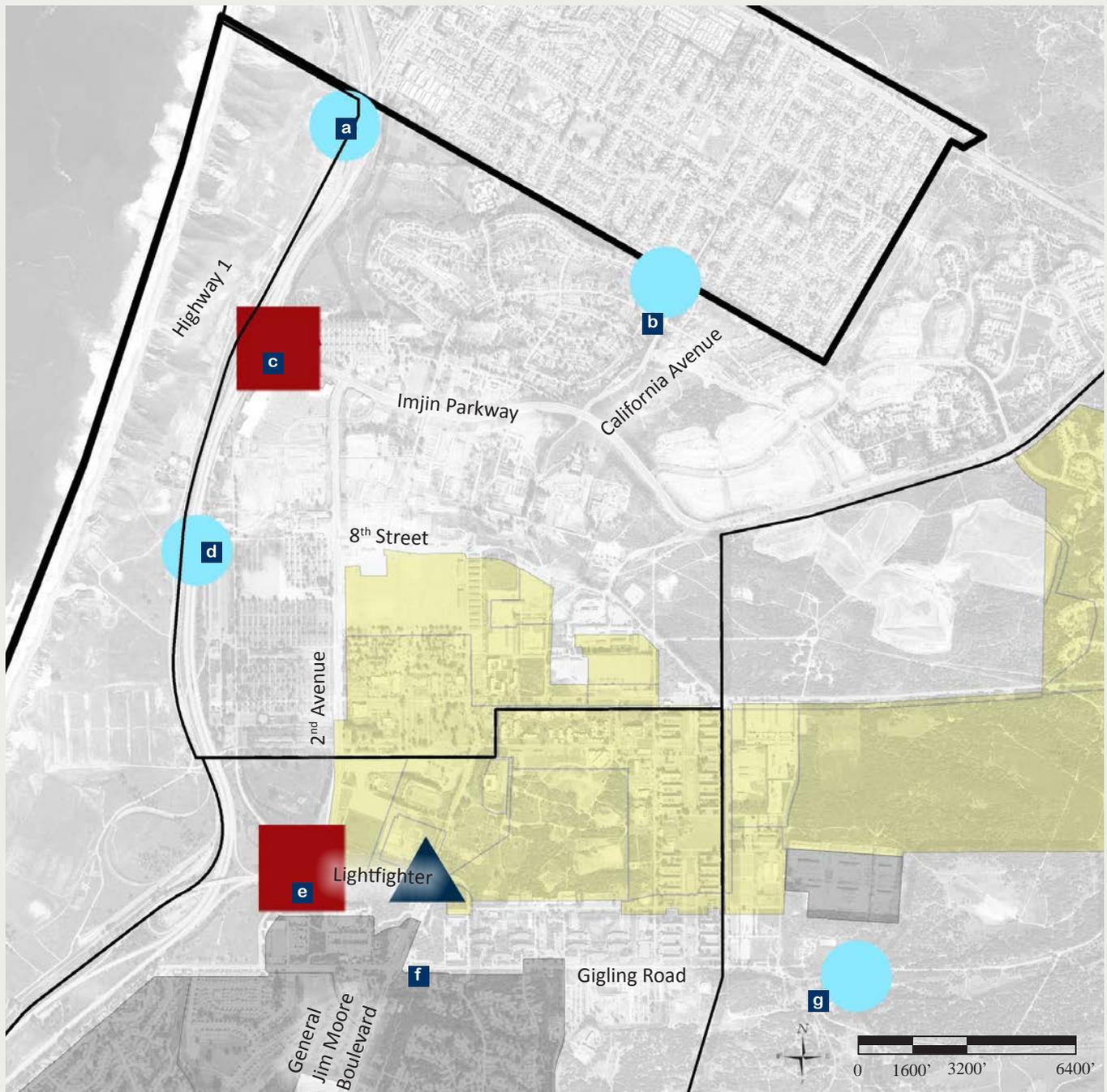
#### Gateway to the Presidio of San Francisco

This sign is relatively small, but large enough to be seen. It uses standard National Park Service elements (the brown background with white typography) which is often touted as “highway-approved” because it does not distract a drivers’ attention. A sense of history, and perhaps order, is communicated with the use of classically proportioned gateposts.

Gateways provide a sense of arrival and signal that one is entering or leaving a defined location. Gateways should be located around points of significance, such as National Monument entries, or transitions between Centers. Gateways steer the location's first impression and should be designed to establish the surrounding area character. The Gateways Overview Map suggests sites that may be developed as Gateways.

### Gateways Overview Map

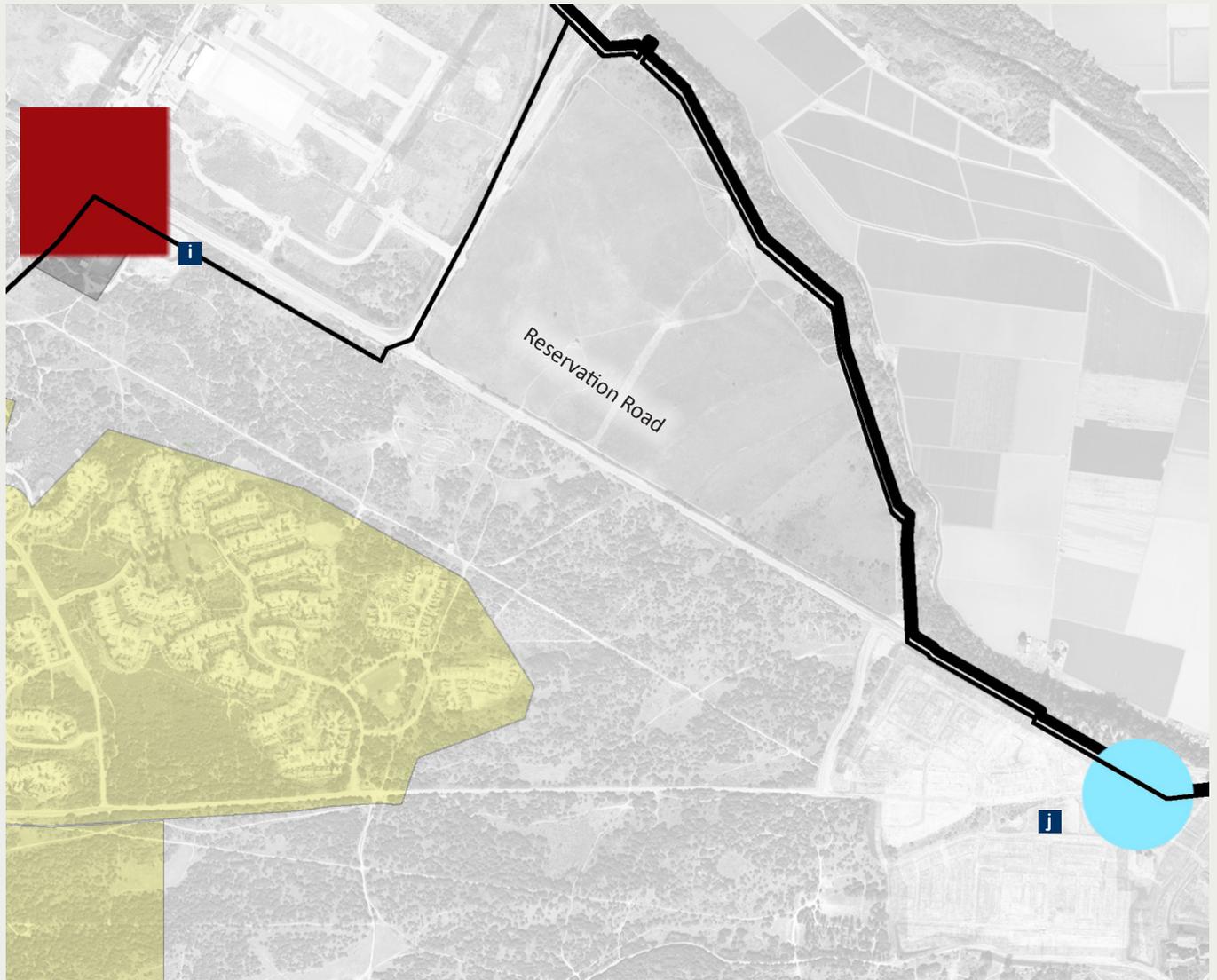
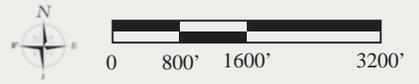




Gateways Focus Map 1

## Legend

- |   |                                      |   |  |   |   |
|---|--------------------------------------|---|--|---|---|
|  | Primary Gateways                     |  | North Highway 1<br>Gateway to/from Marina          |  | Lightfighter Drive<br>Entrance to/from Highway 1                                  |
|  | Secondary Gateways                   |  | California Avenue<br>Local entrance to/from Marina |  | CSUMB Signage<br>Main entrance to CSUMB   |
|  | CSUMB Signage                        |  | Imjin Parkway<br>Main exit off Highway 1           |  | Gigling Road<br>Potential entrance to protected lands<br>and/or National Monument |
|  | BLM Natural Resource Management Area |  | 8th Street<br>Connection to Dunes State Park       |   |   |
|  | Military/DoD Area                    |   |  |   |   |
|  | CSUMB Area                           |   |  |   |   |



Gateways Focus Map 2

### Legend

- Primary Gateways
- Secondary Gateways
- BLM Natural Resource Management Area
- Military/DoD Area
- CSUMB Area
- i Imjin Parkway/Reservation Road  
*Entrance to Marina area*
- j Reservation Road at East Garrison  
*Entrance to the East Garrison community*

Legend

- Primary Gateways
- Secondary Gateways
- BLM Natural Resource Management Area
- Military/DoD Area
- CSUMB Area



Legend

- k Eucalyptus Road  
*Entrance from Seaside into former Fort Ord*
- l Broadway Avenue  
*Entrance to/from Seaside*
- m South Boundary Road  
Realignment  
*Main entrance to former Fort Ord from south*

# Corridors

## What is an ideal corridor?

### 1. Design For Pedestrians First.

Great streets are designed to provide a high-caliber experience for pedestrians foremost; once this is accomplished, great streets may accommodate other modes of travel.

### 2. Proportions Matter.

Streets function as outdoor rooms, surrounding occupants in a space that is welcoming and usable. Streets should be sized properly for their use and defined by appropriate building sizes.

### 3. Design the Street as a Unified Whole.

An essential distinction of great streets is that the entire space is designed as an ensemble, from the travel lanes, trees and sidewalks, to the very buildings that line the roadway.

### 4. Include Sidewalks.

Appropriately designed sidewalks are essential for active pedestrian life. Pedestrians will be more willing to utilize sidewalks if they are protected from automobile traffic.

### 5. Provide Shade.

Shade provided by canopy trees or architectural encroachment protects pedestrians from heat and sun and contributes to the spatial definition of a street.

### 6. Make Medians Sufficiently Wide.

Where divided thoroughfares are unavoidable, medians must be generous enough to serve as a pedestrian amenity.

### 7. Plant the Street Trees in an Orderly Manner.

Great streets are typically planted with rows of regularly-spaced trees, using consistent species. This formal tree alignment has a powerful effect; it at once shapes the space and reflects conscious design.

### 8. Use Smart Lighting.

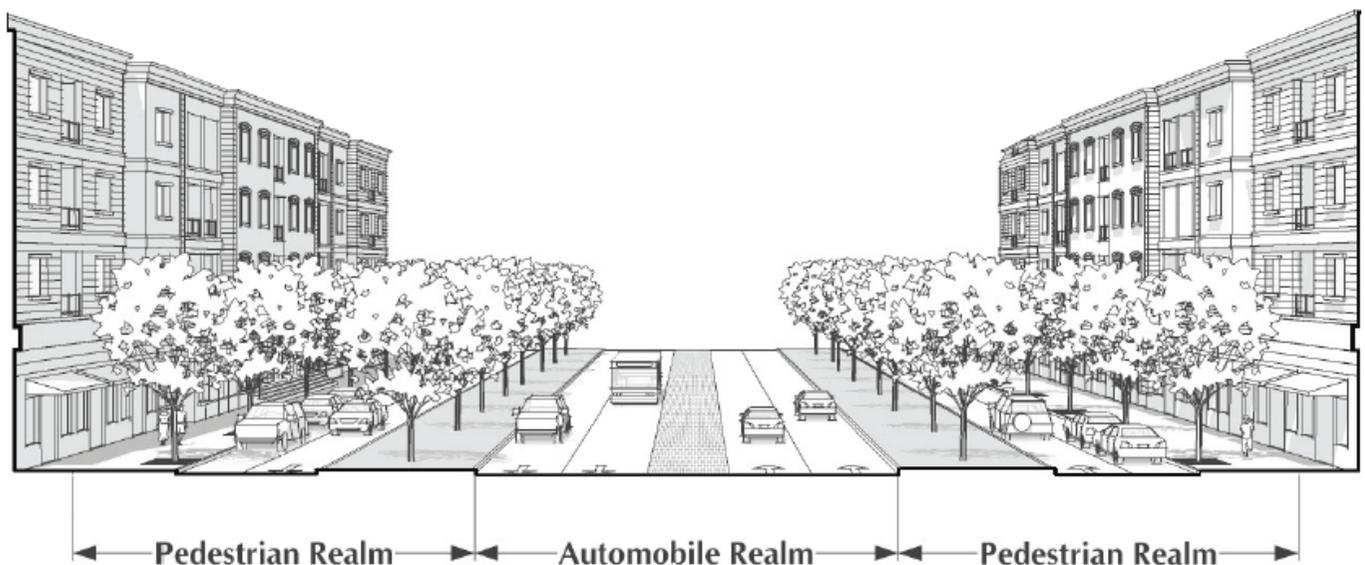
Widely-spaced, highway-scaled “cobra head” light fixtures do not provide appropriate light intensity and consistency for pedestrian well-being. More frequently-spaced, shorter fixtures are preferable for automobile and pedestrian safety.

## Opportunity Sites

Corridors are currently\* envisioned at the following locations:

- Highway 1
- California Avenue
- 2<sup>nd</sup> Avenue
- Blanco Road
- Inter-Garrison Road
- Gigling Road
- Eucalyptus Road
- Imjin Parkway
- Reservation Road
- General Jim Moore Boulevard
- Gigling Road
- Eucalyptus Road
- South Boundary Road

\*New corridors could emerge over the course of time. Additional centers subject to Design Guidelines would be specifically Board approved.



**9. Allow On-street Parking in Suitable Locations.**

On-street parking buffers pedestrians from moving cars and calms traffic. Parking located in front of businesses encourages people to get out of their cars and walk, and is essential to leasing street-oriented retail space.

**10. Avoid Parking Lots in Front of Buildings.**

The bulk of a building’s parking supply should occur behind the building. Placing surface parking lots in front of buildings results in a disconnected pedestrian environment.

Applicable Guidelines	Design Guidelines
Walkable Streets	Page 2.4
Street Connectivity	Page 2.22
Fronts Face Front	Page 2.24

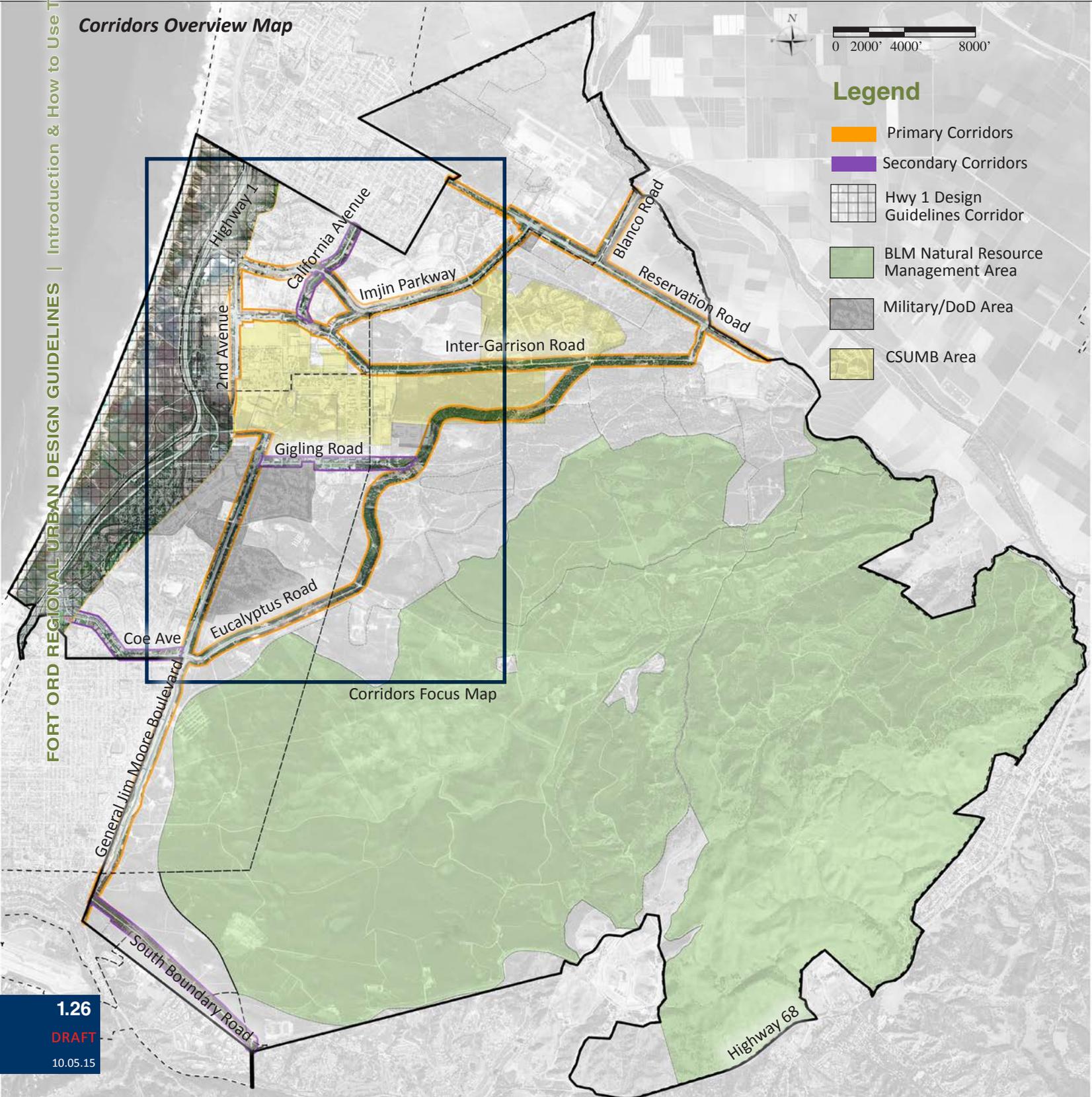
**CORRIDORS ARE SHARED SPACE FOR ALL FORMS OF MOBILITY.**

The Avenue des Champs-Élysées in Paris is 230 feet wide, yet it is still designed with pedestrians in mind. Wide sidewalk, sufficient shade, buffers from traffic, and appropriately scaled buildings all contribute to a safe and desirable pedestrian experience. The corridor still carries thousands of vehicles daily, acting as one of Paris’ major thoroughfares. There are also three metro stops over a 1.25 mile distance, ensuring pedestrians are always within walking distance of transit. The Champs-Élysées can be closed for special events, and acts as a gathering point for the community.



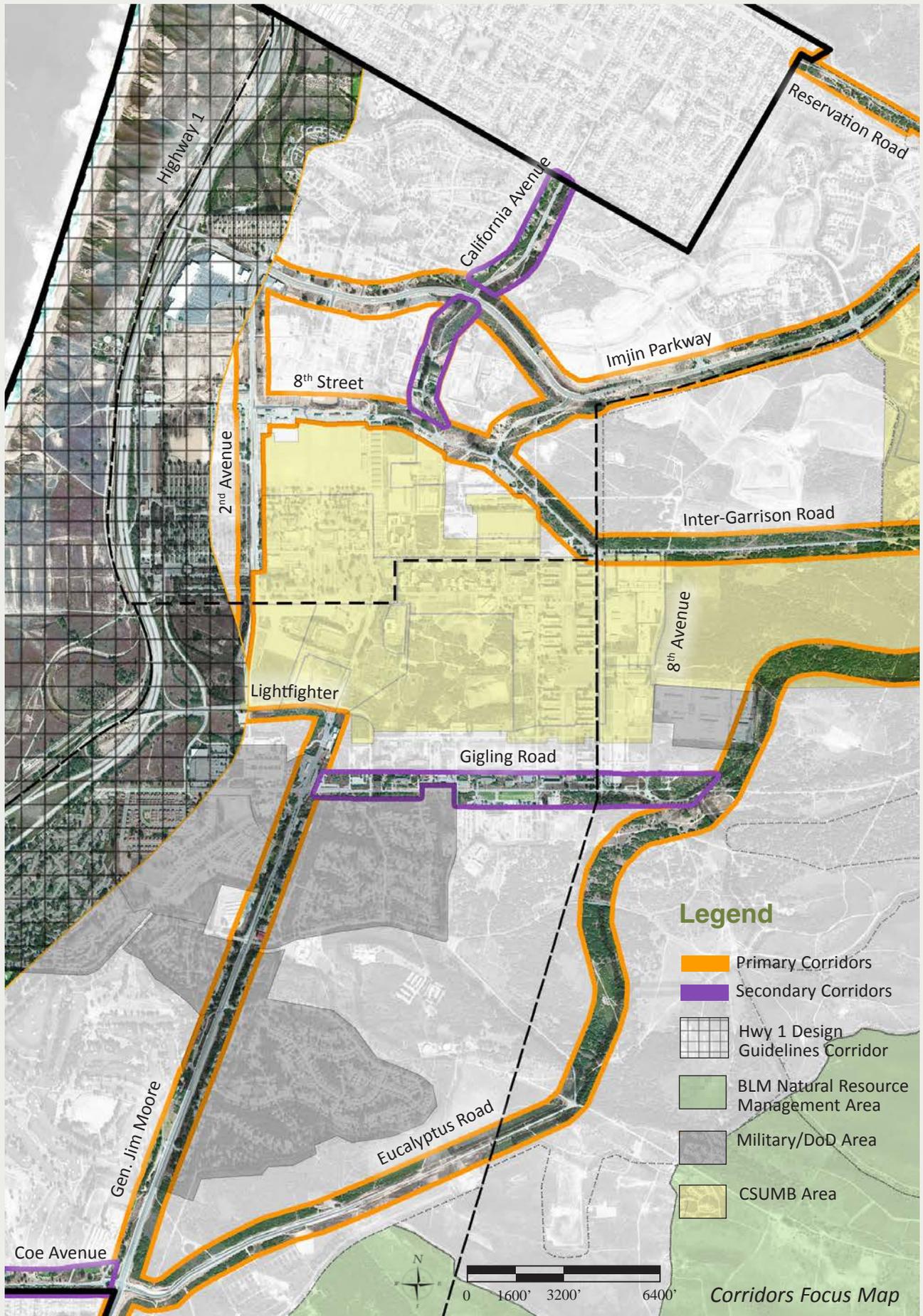
Thoroughfares that enable mobility between areas may also be called corridors. Successful corridors will include a variety of transportation methods catering to motorists, pedestrians, bicyclists and transit users. A corridor network is the basis for a complete transportation framework. The scale of corridors will vary and their intensity should be determined by level of usage and location. The Corridors Overview Map provides an overview of corridors within the former Fort Ord, followed by the Corridors Focus Map, which shows a closer look at potential corridor connections.

Corridors Overview Map



Legend

- Primary Corridors
- Secondary Corridors
- Hwy 1 Design Guidelines Corridor
- BLM Natural Resource Management Area
- Military/DoD Area
- CSUMB Area



**Legend**

- Primary Corridors
- Secondary Corridors
- Hwy 1 Design Guidelines Corridor
- BLM Natural Resource Management Area
- Military/DoD Area
- CSUMB Area

# Trails

## What is an ideal trail?

A trail is usually a path, track or unpaved lane or road, though the term is also applied to routes along rivers, and sometimes to highways. Some trails are single use and can only be used for walking, cycling, horse riding, etc., others, are multi-use, and can be used by walkers, cyclists and equestrians. There are also unpaved trails used by dirt bikes and other off road vehicles.

The character of a trail depends on the nature of the environment around it and its purpose. Trails can be used for recreation or to connect places.

Rural areas typically have meandering paths. As places become more urbanized, trails still cut through natural areas but they also start to follow alongside roads. As a street network is established trails can either follow alongside the road or become part of the roadway itself.

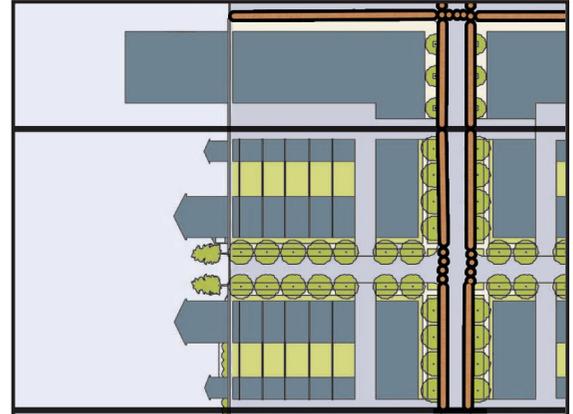
### 1. Clearly designated.

A trail is usually an off-street path or designated portion of a street that is easy to follow. This requires continual maintenance. The pathway should be at all times obvious and signage should be available when multiple options are available. Navigational assistance in the form of signage and maps, potentially, should be available.

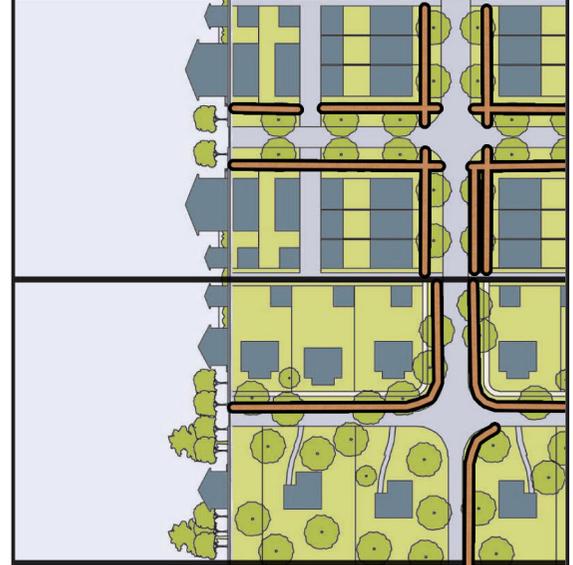
### 2. The more users the better.

Some trails are single-use however the best trails are multi-use and accommodate a variety of users during different seasons for walking, cycling, horse riding and so forth. Walkers, cyclists and equestrians have different needs and at different times one may be prioritized over another in the design however the most often used trails are designed to accommodate a variety of people. The more people, and the wider the range of interests the larger a constituency to promote the creation and maintenance of trails.

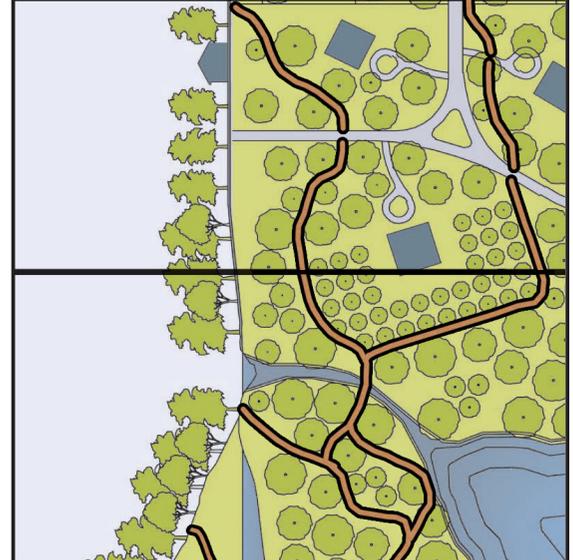
Urban



Suburban



Rural



### 3. Trails connect.

Trails are a part of the Monterey Bay region's transportation mix. Every trail should be part of a long-range trail system that allows people to travel as far as possible without a car. Sidewalks connect to multi-use paths, then connect to forest roads or bridal trails, and finally connect to footpaths. Linear-trail systems that connect destinations and points-of-interest must eventually connect to looped-trail systems and spurs which go around noteworthy features.

### 4. The character of trails change.

Across the urban to rural spectrum trails change in character from formal to rustic. Pavement leads eventually to packed earth, railings transition from metal to wood to finally disappear entirely. Each context should have its own materials. Even the fonts of signs could change in congruence with the changing environment.

Applicable Guidelines	Design Guidelines
Context Sensitive Trails	Page 2.36



## Current Trailheads

Trailheads into the National Monument include:

- Formal Trailheads:
  - ◊ Highway 68 & Reservation Road
  - ◊ Highway 68 & Toro Creek Road
- Informal Trailheads:
  - ◊ Gigling Road
  - ◊ East Garrison

\*Trail planning is an active ongoing process. Potential routes may be identified and approved by the board.

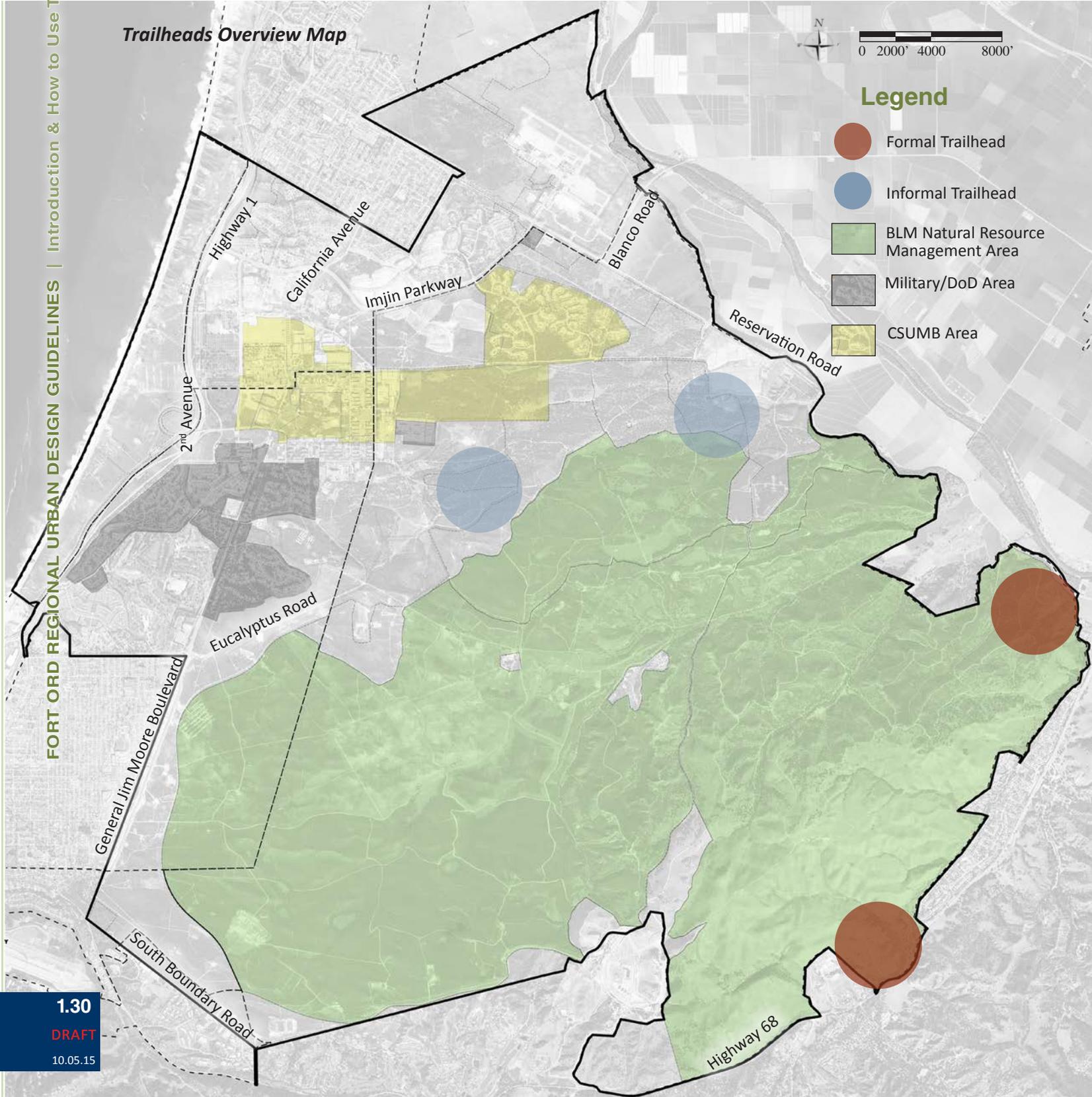
Specific alignments of bike/pedestrian trails are currently part of ongoing regional trail planning. Trails and trailheads should take into account their surroundings, from trails along major thoroughfares to natural trails entirely within the habitat areas. The trailhead overview map highlights locations of existing trailheads, both formal and informal. Formal trailheads can be clearly marked by signage, and a distinct entrance to the monument. Informal trailheads may have been defined over time by constant use by visitors.

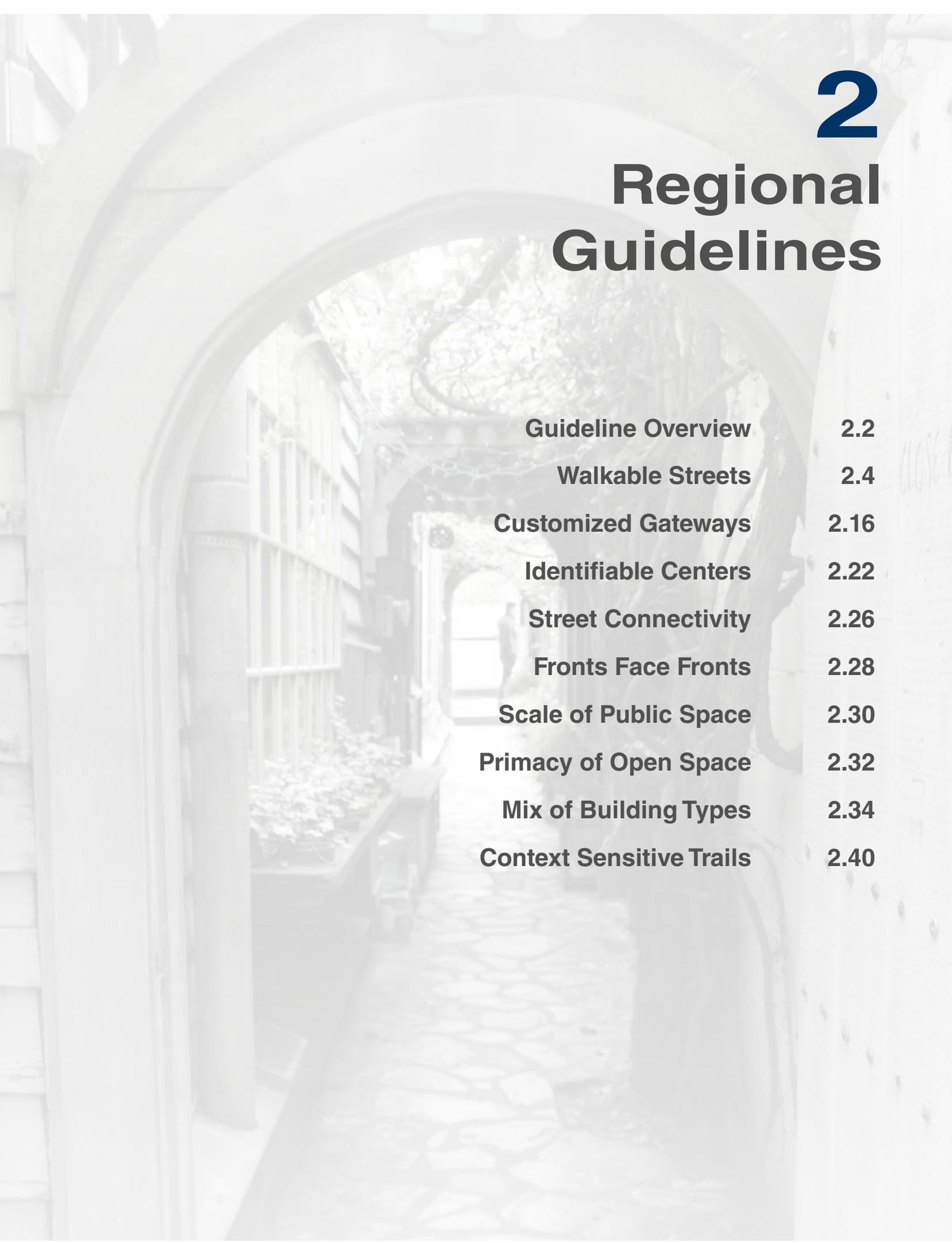
Trailheads Overview Map



Legend

- Formal Trailhead
- Informal Trailhead
- BLM Natural Resource Management Area
- Military/DoD Area
- CSUMB Area





# 2

## Regional Guidelines

<b>Guideline Overview</b>	<b>2.2</b>
<b>Walkable Streets</b>	<b>2.4</b>
<b>Customized Gateways</b>	<b>2.16</b>
<b>Identifiable Centers</b>	<b>2.22</b>
<b>Street Connectivity</b>	<b>2.26</b>
<b>Fronts Face Fronts</b>	<b>2.28</b>
<b>Scale of Public Space</b>	<b>2.30</b>
<b>Primacy of Open Space</b>	<b>2.32</b>
<b>Mix of Building Types</b>	<b>2.34</b>
<b>Context Sensitive Trails</b>	<b>2.40</b>

# Guideline Overview

Out of a regional conversation – about the kinds of places residents, property owners and stakeholders desire – came these Design Guidelines, summarized below:

## 1. Walkable Streets

Streets are first and foremost public spaces. Until recently, streets were designed primarily around the automobile, creating thoroughfares that discourage all others modes of transportation such as pedestrians and cyclists. The public is now pushing for more mobility options. The national trend for all sized communities is moving in the direction of complete streets that meet the needs of multiple types of commuters.

## 2. Customized Gateways

Gateways provide the visual signal that one has arrived at a destination. Former Fort Ord lands include many kinds of places. The individual destinations should guide the gateway design. Contextual design celebrates the range of attractions within the region.

## 3. Identifiable Centers

Centers should be obvious. A well-designed community uses roads, building types, and overall design intensity to guide one to the community core. Centers generally contain the greatest range of uses, and are defined by their public spaces.

## 4. Street Connectivity

A complete and connected street network enables a sense of cohesive community, rather than multiple disjointed development pods. The street network should include a variety of thoroughfare types, from large-scale transit corridors to narrow, low-traffic neighborhood streets. A well-connected road system disperses traffic and enables mobility.

## 5. Fronts Face Front

Building fronts facing fronts create a welcoming aesthetic to a neighborhood or street. By ensuring that the fronts of buildings face one another, a complete streetscape is defined, with visual interest for passers-by, while activating the public space of the street. At the same time, eyes-on-the-street, from residents and business owners provide a safer environment.

## 6. Scale of Public Space

Properly scaled public spaces maximize investment and can benefit the sense of connecting values of surrounding uses, and transitions between uses. Public space should be commensurate with their surroundings and intended use.

## 7. Primacy of Open Spaces

Public open spaces act as the heart of communities, and provide gathering spaces for residents and visitors. Open spaces within development can be designed in many forms. Civic spaces are generally located in the most desirable location within a center to encourage maximum usage.

## 8. Mix of Building Types

While consistency is essential in defining community character, building variety avoids “sterile” and unwelcome development. Buildings should be designed to serve a mix of uses such as residential, commercial, multi-use, live-work, and so on. Buildings should also be designed to be reutilized and evolve over time.

## 9. Context Sensitive Trails

The 1997 Base Reuse Plan envisioned a network of interconnected trails linking the new communities and universities emerging on the former Fort Ord. Consistent designs applied across the trail network would enhance its function and visual appeal. Specific consideration should be given to the unique landscape and urban context for these trails.

## Design Guidelines Matrix

Principles \ BRP Focus Areas	Road Design	Building Height	Landscape	Signage	Other
Walkable Streets	●	●	●	●	●
Customized Gateways	●	●	●	●	●
Identifiable Centers		●		●	●
Street Connectivity	●				●
Fronts Face Fronts	●				●
Scale of Public Space		●			●
Primacy of Open Space			●		●
Mix of Building Types		●			●
Context Sensitive Trails			●	●	●



# Walkable Streets

**Authority:** The “Walkable Streets” guideline refines 1997 Reuse Plan design principles: Mixed Use Development/Increased Density, page 121; Design Principle 3, page 9 and 59; General Development Character & Design Objectives, page 154 and 165; Community Form, page 62; and especially, Design Principle 6, regarding “Road Design,” “Building Height,” “Landscaping,” “Signage,” and “Other matters of visual importance.”

## Purpose

A street is often referred to as walkable if pedestrians can move about safely in an environment/setting. A network of streets allows pedestrians, cyclists, and motorists to move safely and comfortably through an area. The maximum average block perimeter to achieve an integrated network is 2,400 feet with ideal maximum uninterrupted block face of 450 feet with street intervals of less than 600 feet apart along any one single stretch.

When designing complete streets, strive to make them walkable, to accommodate bicycles, and to provide for cars, trucks, and emergency vehicles.

“Design Speed” is the crucial number engineers officially use to configure streets for orderly traffic movement. The chosen design speed must be a low figure, usually less than 25 mph, for a walkable environment.

The slow design speed that characterizes walkable streets results in the conscious choice of features such as narrow curb-to-curb dimensions, street trees, architecture close to the street edge, on-street parking, and relatively tight turning radii.



*Lighthouse Avenue, Pacific Grove CA*

The west side of Pacific Grove near 16th Street is a great example of a sidewalk that is wide enough to share seating, bike storage and space for people to walk. There is a healthy amount of trees as well, which provide some shade as well as an overall welcoming character to the street.

Bird’s eye view of Alvarado Street in downtown Monterey.



- a** Narrow Streets
- b** Shade
- c** Sidewalks
- d** Crosswalks

## Application

This guideline applies to:

- Centers
- Gateways
- Corridors

## Intent

To build safe, comfortable, and interesting street environments to encourage daily physical activity.

## Principles

1. Provide continuous sidewalks along both sides of regional corridors. New sidewalks should be at least 10 feet wide on retail or mixed-use blocks and at least 5 feet wide on all other blocks.
2. Regional corridors should not be faced by parking lots, garages, or service bay openings.
3. Sidewalks should be designed to maintain a safe, walkable, environment that is appropriate for the type of street. This can be achieved by providing street furniture, trees, and lighting at appropriate intervals.
4. Street trees should be noninvasive and drought-tolerant while still providing shade within 10 years of landscape installation.
5. On-street parking should be provided within 1/4 mile of all centers along both sides of the street.
6. Design streets within 1/4 mile of Centers for a target speed of no more than 25 miles-per-hour. On a multi-way boulevard with through travel lanes separated from access lanes by medians, apply this requirement to its outer access lanes only (through-lanes are exempted), provided pedestrian crosswalks are installed across the boulevard at intervals less than 800 feet.
7. At-grade crossings with driveways should account for less than 10 percent of the corridor within 1/4 mile of Centers.

## Measurement

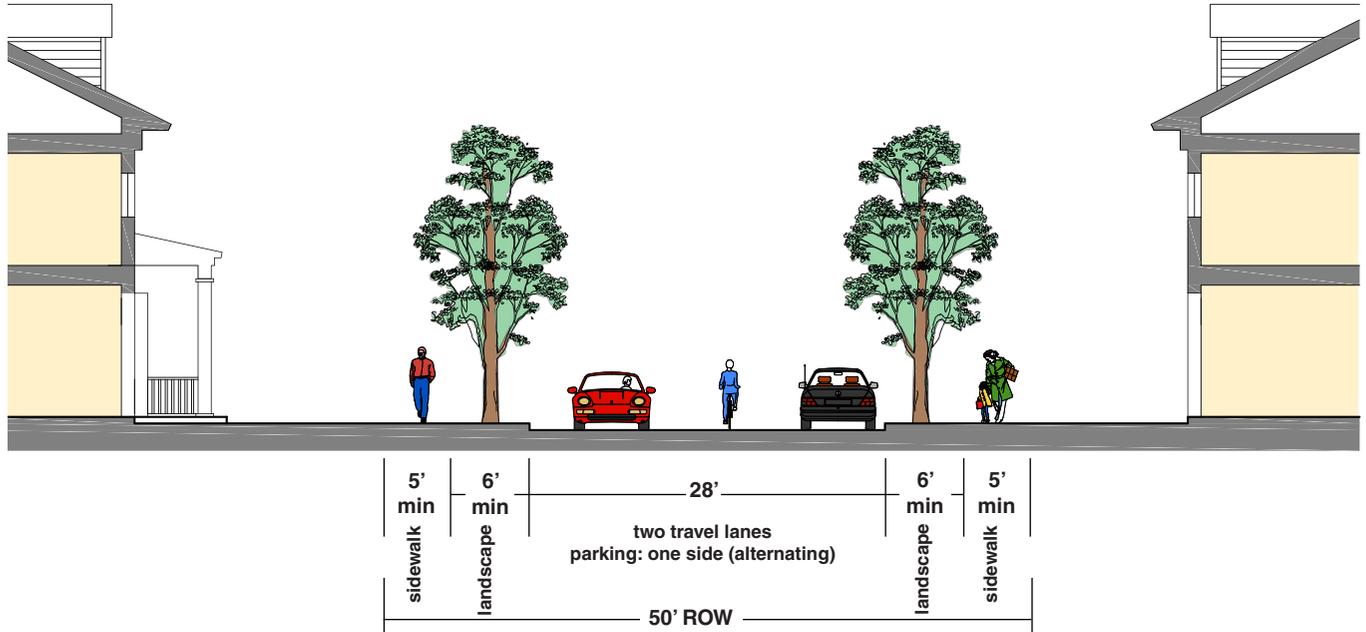
There is no one formula for walkable streets. Building great streets goes beyond a simple “complete streets” approach. Great streets means creating places that are safe, comfortable, interesting, beautiful, and desirable for locals and visitors. Existing streets can be retrofitted with wider sidewalks, world-class bike infrastructure, shade trees for sidewalks, better lighting, and buried utilities.

On the following pages designs for sample local streets, main streets, avenues, boulevards and parkways are provided that meet the requirements.

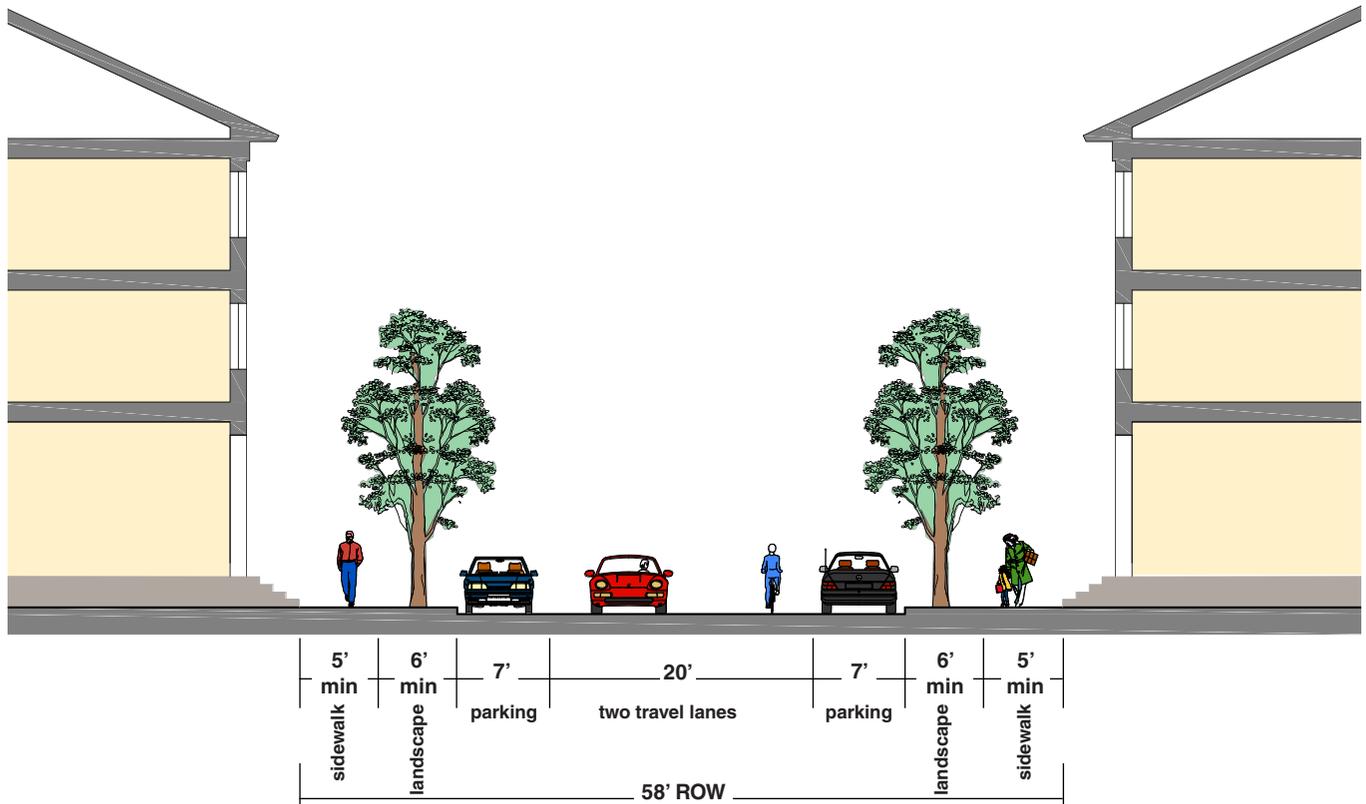
## Local Residential

Local Streets provide access to individual lots, accommodate pedestrians and serve as low speed bicycle and vehicle routes. Local streets should be relatively short in total distance related to the other street typologies, and serve as the street that residential development fronts. For multi-family frontages, the parking is accommodated in parallel bays adjacent to

distinct travel lanes; for single family frontages, the street is a shared cartway where two moving directions of traffic share space with parked vehicles in a “yield” condition. The streetscape is more formal, with street trees planted with regular spacing, and sidewalks on both sides of the street.



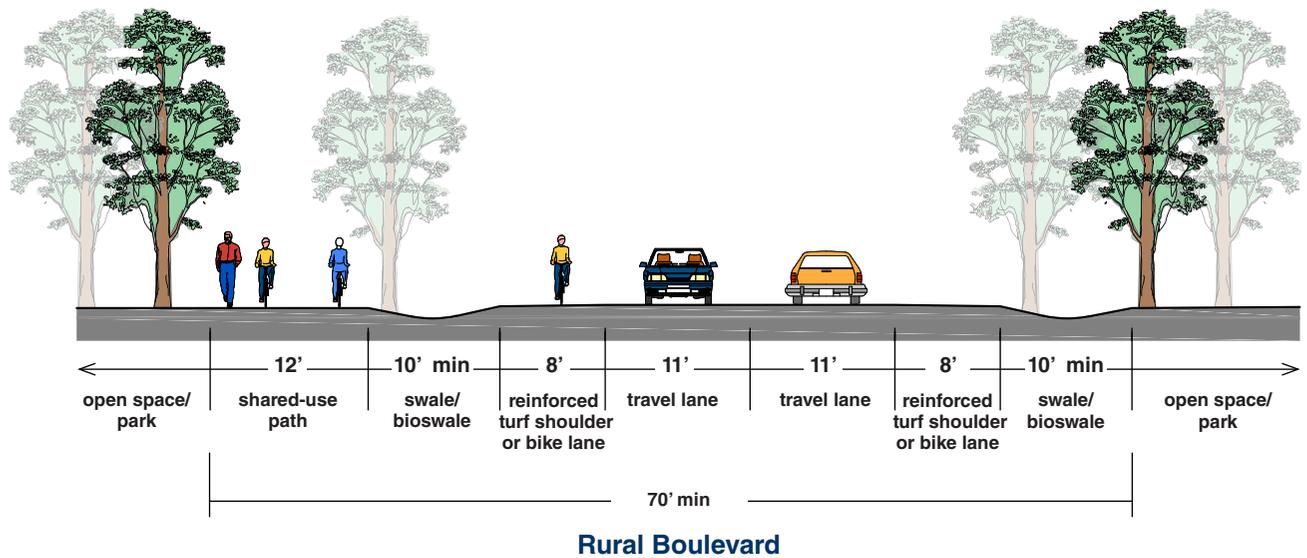
**Local Residential, Single Family**



**Local Residential, Multi-Family**

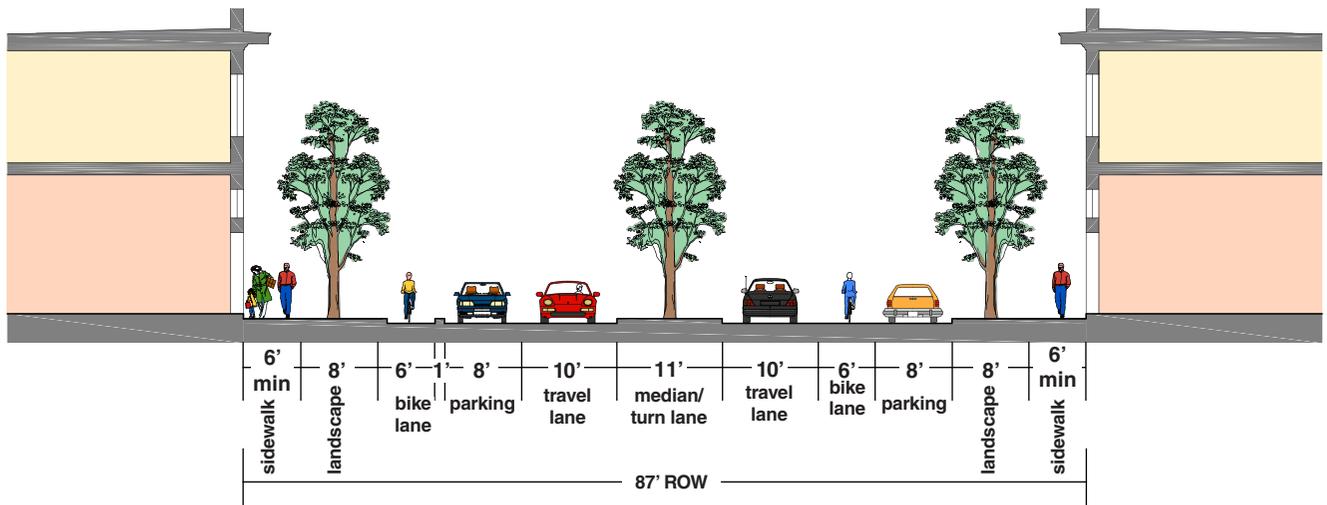
## Rural Boulevard

Rural boulevards pass through areas typified by open lands, conservation areas, or parks. They form connections through these sensitive areas while laying lightly on the landscape. Lighting is optional on these facilities, and bicycles and pedestrians are accommodated in an off-road facility such as a shared use path typically on one side of the street. Drainage is accomplished via open swales on the sides of the street, or through rain gardens or bioswales in the same configuration.

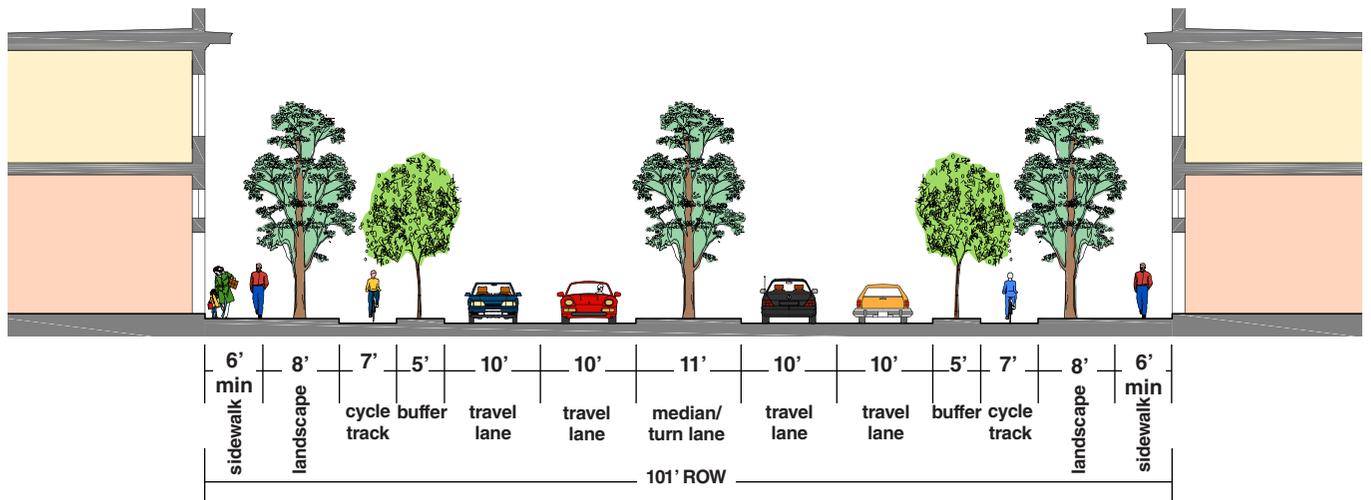


## Avenues

An avenue is a walkable, low-speed street that carries a mixture of through and destination traffic. Avenues provide access to abutting commercial, residential, and mixed land uses, and accommodate cars, pedestrians, and cyclists. Avenues can have between two and four travel lanes, and can have planted medians and side planting strips. They may also have on-street parking, and will have sidewalks and some form of on or off-street bicycle accommodations such as bicycle lanes, cycle tracks, or a shared use path. Avenues have sidewalks on both sides of the street, and a more formal planting scheme with trees on a regular spacing. Target speeds for avenues are typically 30 mph or less.



**Avenue Option 1: Bike Lanes**

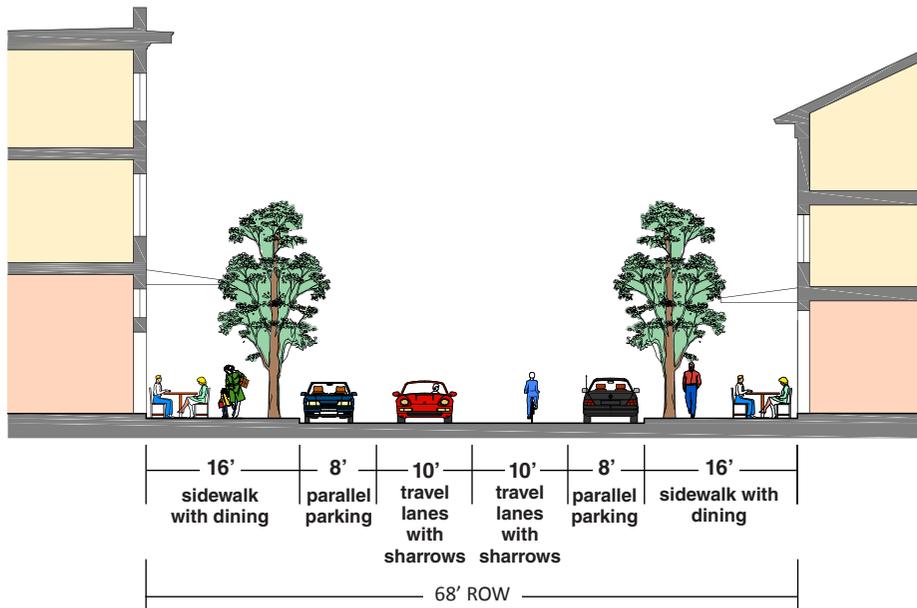


**Avenue Option 2: Cycle Track and Multi-Lane**

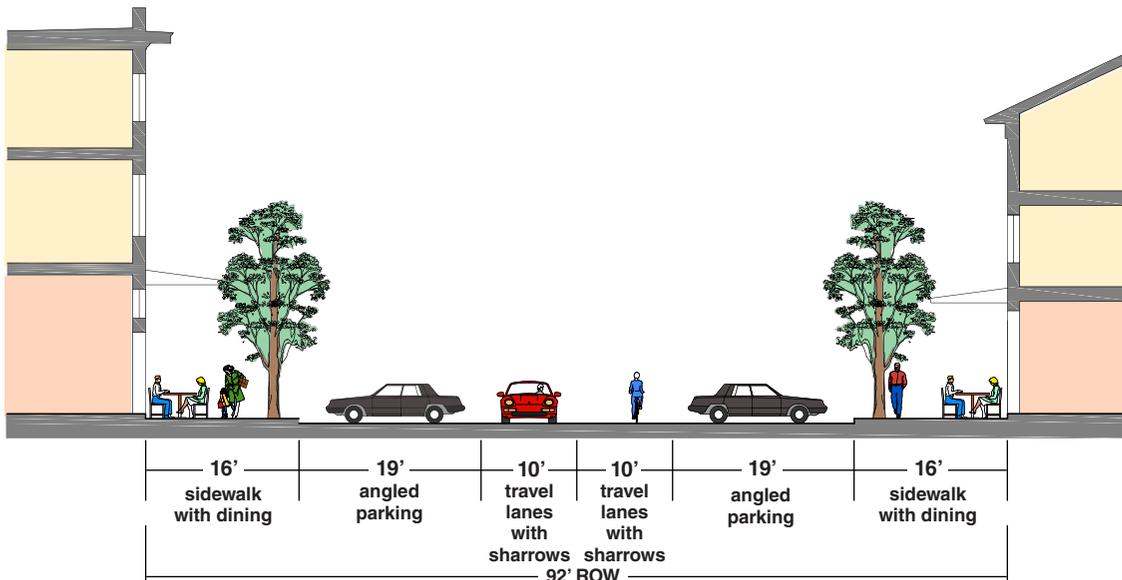
## Main Streets

Main Streets are designed to provide connections between neighborhoods and districts, as well as providing access to Avenues and Boulevards from local streets. Main Streets are highly walkable and serve as the primary street for commercial or mixed-use centers. On-street parking is provided in either a parallel or angled configuration. Due to anticipated pedestrian activity, design speeds are kept low. This condition also allows bicycles to share space with automobiles in general travel lanes, negating the need for distinct bike lanes.

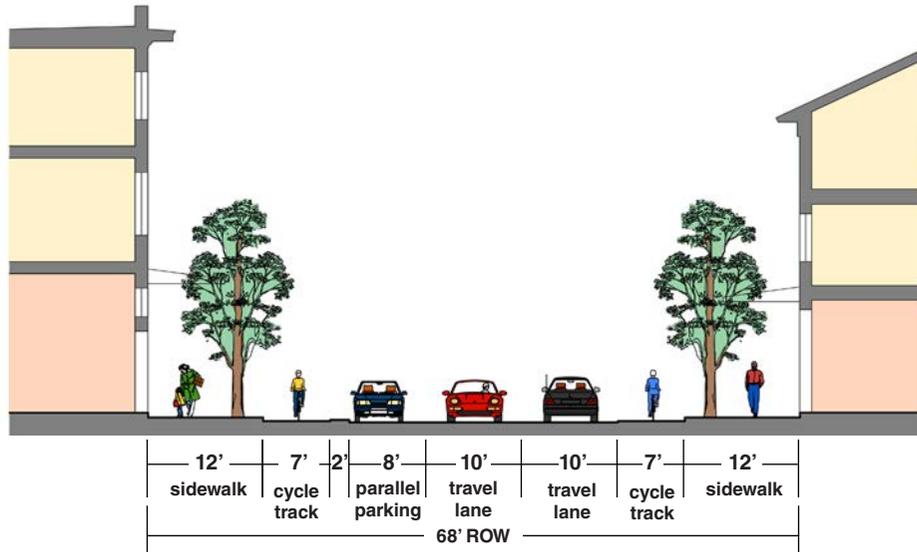
Additional landscaping and traffic calming techniques that are ideal on Main Streets include street trees in grated wells, curb bulb-outs, and a relatively high density of street furniture and public art. Pedestrian-scale street lighting should be installed, and utilities should be located underground, in alleys or along other streets to the greatest extent possible. Sidewalks are required on both sides of the street, and will be at least 16 feet from the back of curb to the building face, to provide space for activities such as outdoor cafes and strolling.



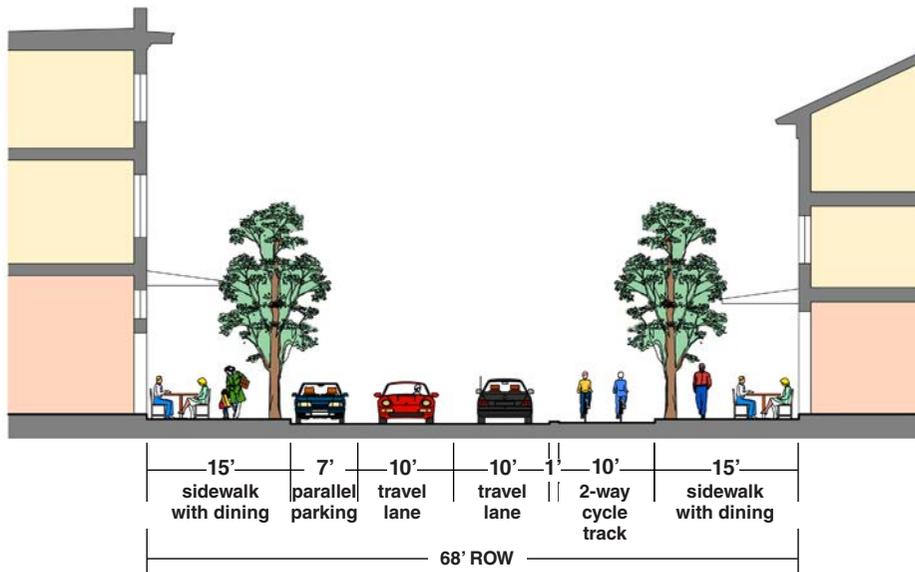
**Main Street Option 1**



**Main Street Option 2**



**Main Street Option 3**



**Main Street Option 4**

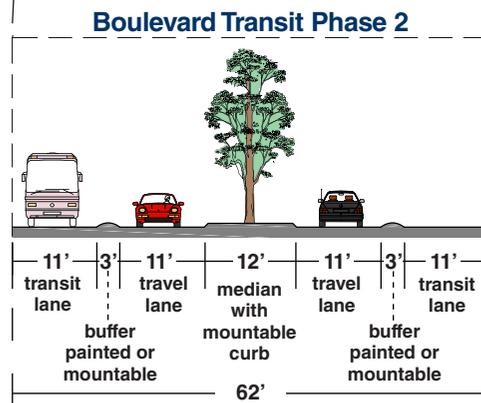
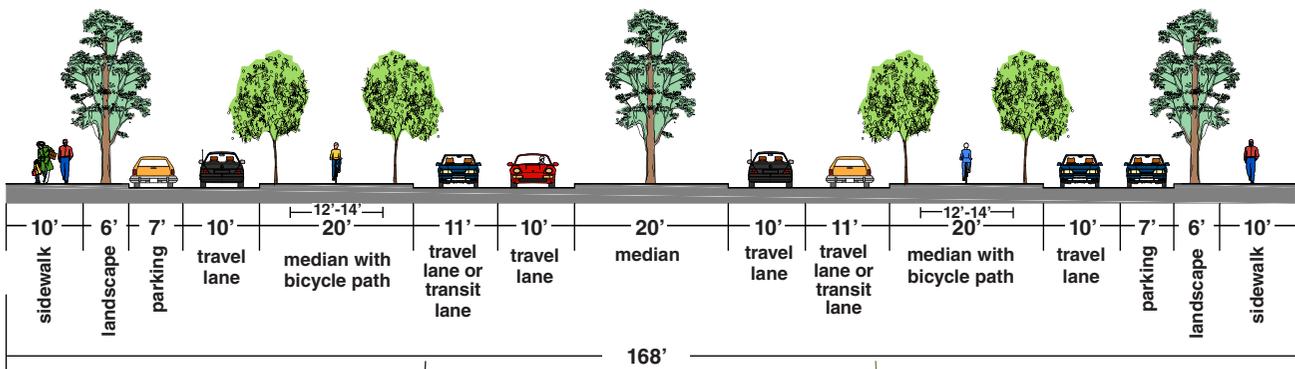
## Boulevards

A boulevard is a regional travel facility that typically consists of commercial frontage, with multiple intersections and access to businesses. Boulevards have a more formal streetscape pattern, and occur in primarily developed areas. Boulevards include a closed drainage system. Accommodations for pedestrians and bicycles are in a facility such as a shared use path that is separated from moving traffic. Boulevards can include an access lane to afford local trips an alternate to reentering the through lanes, and to create store frontage with on-street parking; bicycles are accommodated via sharrowes in the access lanes due to their low speed.

## Boulevard (Dedicated Transit Lane)

The boulevard can also include a dedicated transit lane for buses or light rail vehicles, which can either be constructed initially or retrofitted at some point in the future.

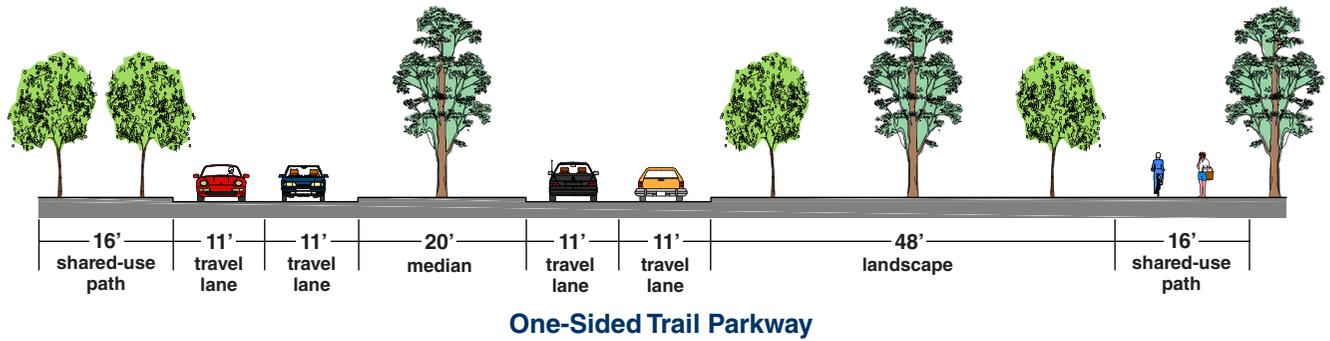
Boulevards are typically four lanes in width, and occur in built up areas with commercial uses. Target speed for a boulevard is typically between 30 and 40 mph in the through lanes, and 10-15 mph on the access lanes.

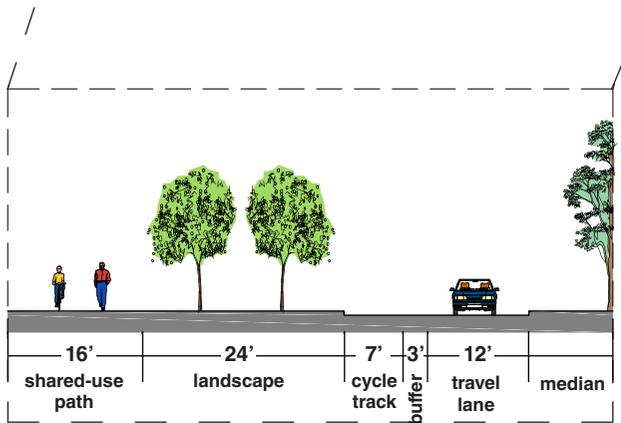
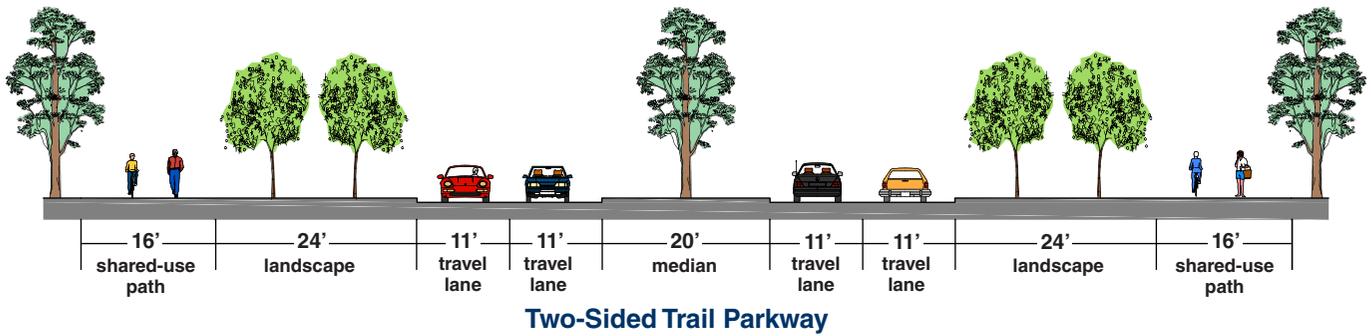


Transit Option

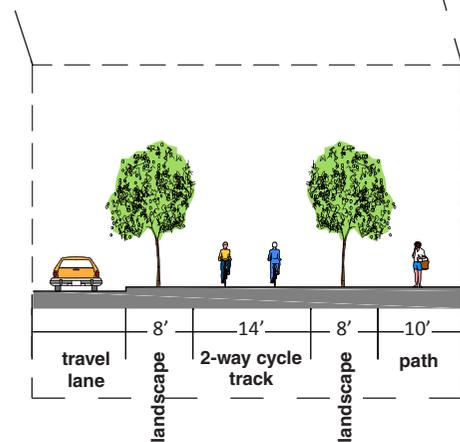
## Parkway

A parkway is a regional facility intended to carry traffic from point to point with little interruption in the way of driveways and intersections. Parkway can occur in both urban and rural contexts, with drainage either accomplished in a closed or open system. Parkway respect the natural environment, with a more natural and informal landscape scheme in keeping with their natural setting. Parkway can have two or four travel lanes, with a target speed of between 30 and 45 mph. Bicycles and pedestrians are accommodated on a separated shared use path, but within the overall right-of-way.





**Option 1: 2 - Lane Road with Cycle Track**

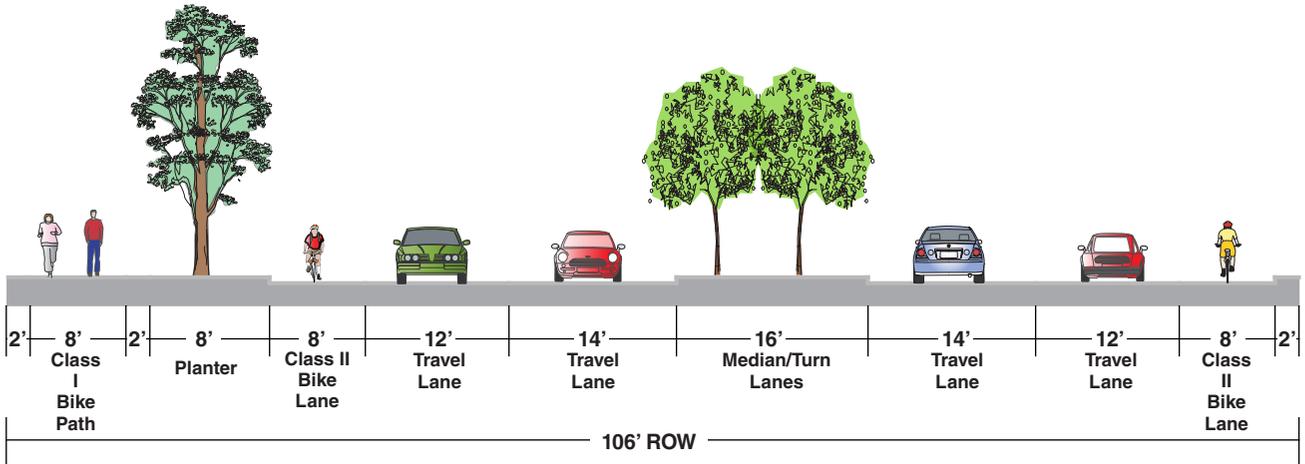


**Option 2: Walking and Cycle Facilities**

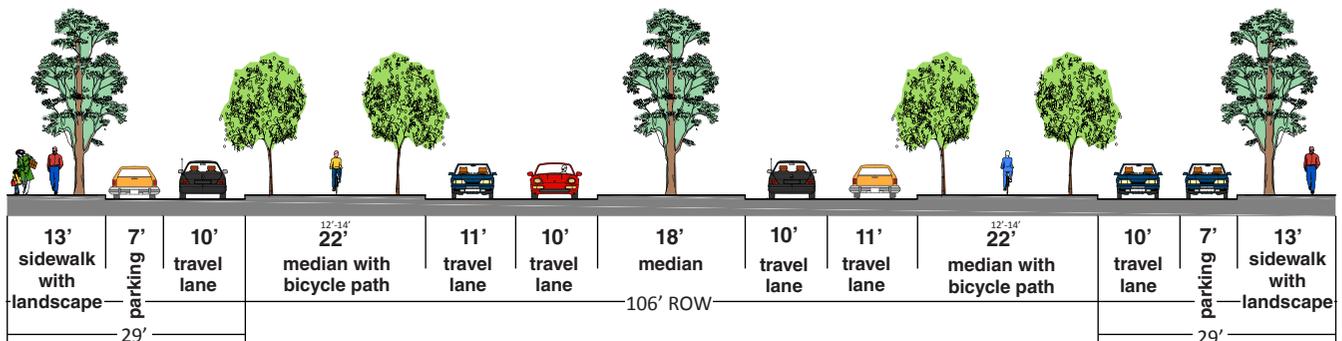
## Eastside Parkway

Below are sections illustrating the planned Eastside Parkway that would connect Eucalyptus Road to Inter-Garrison Road, as designed by Whitson Engineers. This new parkway will give commuters a viable alternative to other routes that are longer and become more congested at peak hours.

The following sections illustrate a typical 4 lane road with space for trails on the shoulders, a typical 2 lane road with sidewalks and a typical 2 lane road with sidewalks and a left turn pocket.

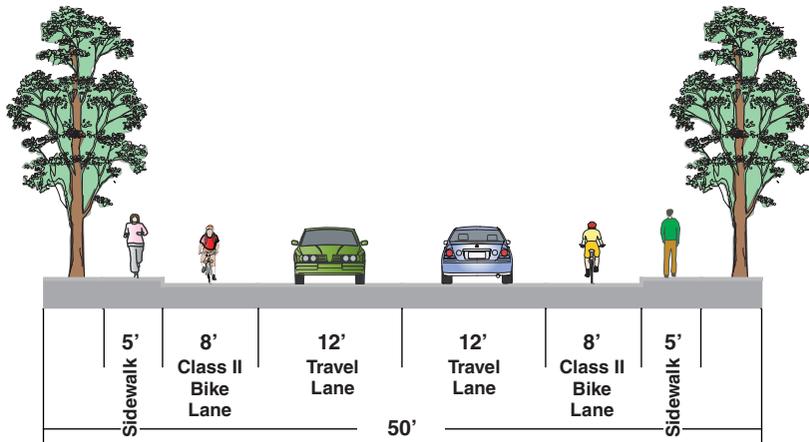


**Typical 4-Lane Section  
Eastside Parkway**

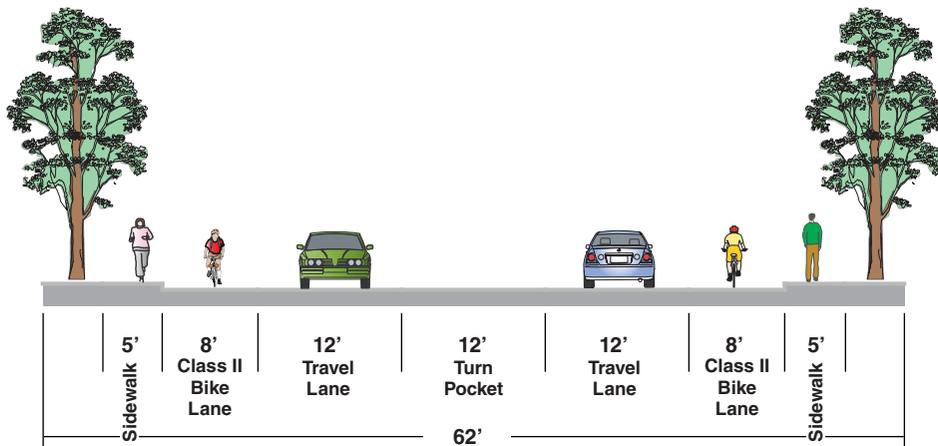


**Multi-Way Boulevard**

\*These cross-sections were provided to the consultants by FORA Staff based on the engineer plans. Eastside Parkway Improvement Plans, September 2012



**Typical 2-Lane Section  
(With Sidewalks)  
Eastside Parkway\***



**Typical 2-Lane Section  
(With Sidewalks and Left-Turn Pocket)  
Eastside Parkway\***

# Customized Gateways

**Authority:** The “Customized Gateways” guideline refines 1997 Reuse Plan design principles: *Mixed Use Development/Increased Density*, page 121; *Design Principle 3*, page 9 and 59; *General Development Character & Design Objectives*, page 154 and 165; *Community Form*, page 62; and especially, *Design Principle 6*, regarding “**Road Design**,” “**Building Height**,” “**Landscaping**,” “**Signage**,” and “**Other matters of visual importance**.”

## Purpose

Gateways aim to aid navigation and make a positive and lasting impression for visitors. Signs, roundabouts, landmarks, archways, signature parks, and signature streets are already used by the various Monterey Bay region municipalities.

When visitors arrive on former Fort Ord lands how should their arrival be marked? Former Fort Ord lands will, in time, become extensions of adjoining municipalities. Yet, Ford Ord should not be forgotten. Gateways leading to the historic base lands should create an enduring and memorable impression.

## There are many kinds of “signs”

Many different types of signs can be used to promote the identity of a town, mark one’s arrival to a destination, and provide wayfinding for visitors and locals alike.

Signage is not only about the individual sign. It’s placement and landscaping are just as important as the text and symbology that appear on the sign.

Signage can be used to identify sites of cultural or symbolic importance. In these cases a common theme and design are important. They serve the same purpose as logos in branding or marketing consumer goods. An element that is repeated throughout a region, becomes a readily recognizable element that will make it easier for people to find what they are looking for.

Wayfinding signage is typically smaller and placed along a highway or sidewalk. Gateway signage can be as simple as a road marker, an aluminum plate with typography and symbols, and as complex as an arch, a fence or a mix of more monumental elements and landscaping.

The following pages illustrate different options that could use to establish signage that commemorates the history of former Fort Ord.



*Fort Ord National Monument*

The Bureau of Land Management recently unveiled new signage for the Fort Ord National Monument. However, what should the signage look like at the gateways to former Fort Ord lands?

## Application

This guideline applies to:

- Gateways

## Intent

To create a sense of arrival to former Fort Ord lands.

## Principles

One should know when they have arrived on former Fort Ord lands. Signage, roundabouts, landmarks, and archways, especially, could be used to signify the historic lands.

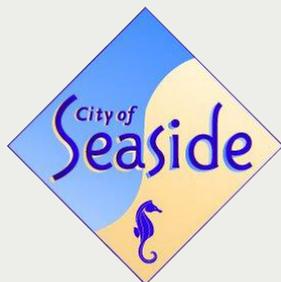
## Measurement

A variety of entryways that are well-designed, welcoming, and varying in scale should be used on former Fort Ord lands.

When signage is the primary way of marking a gateway it is important to note that there are two types of signs: one is intended for automobile drivers and the other for pedestrians and cyclists. Two kinds of signage can be placed in two different locations in order to greet the automobile or pedestrians/cyclists in the location that makes the most sense for them.

## Monterey Bay Logos

These are logos of the municipalities and major development sites in the Monterey Bay region. They can be placed on their own on flags and sign plates and serve to distinguish each jurisdiction's unique identity. Placing them on billboards or other types of signage, or even on municipal letterhead, serve to indicate approval by the jurisdiction.



# East Garrison

## Sample Logos & Vehicular Signage



## Sample Pedestrian Signage

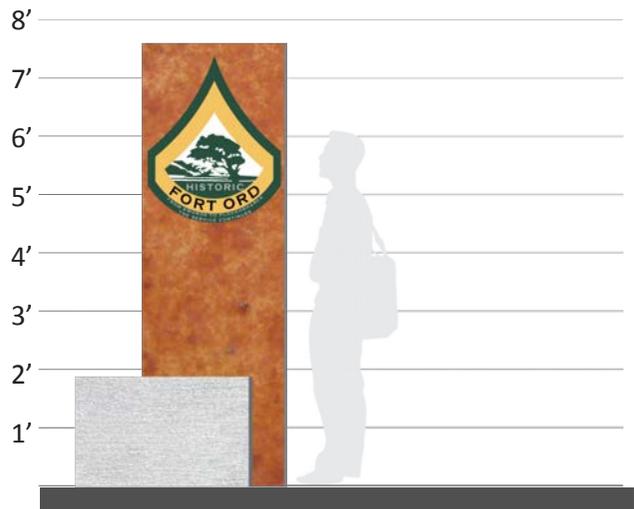
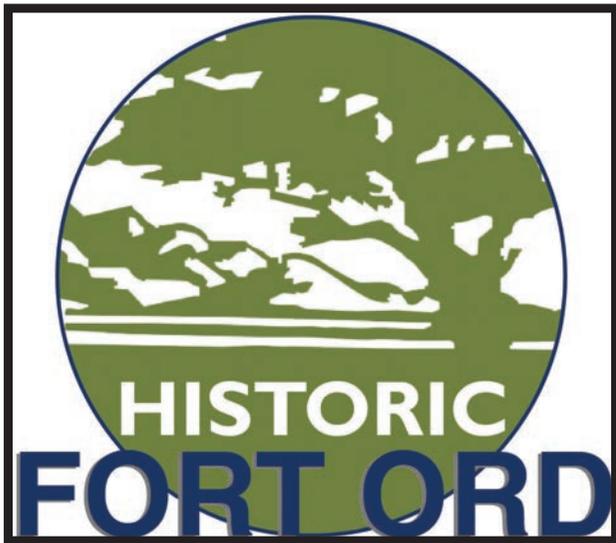


## Color Palette Inspiration



The circular medallion style of sign is inspired by the military tradition of challenge coins. With this type of design we indicate our appreciation for what was achieved at Fort Ord. The opening and closing dates remind us of the dual benefits the American people have enjoyed from this site - the history of training troops for the Pacific theater of World War II, and the civic act of returning the site to the public as a national preserve.

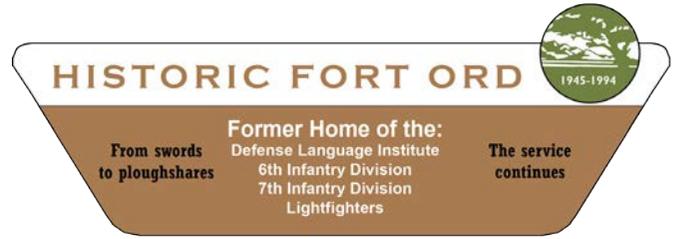
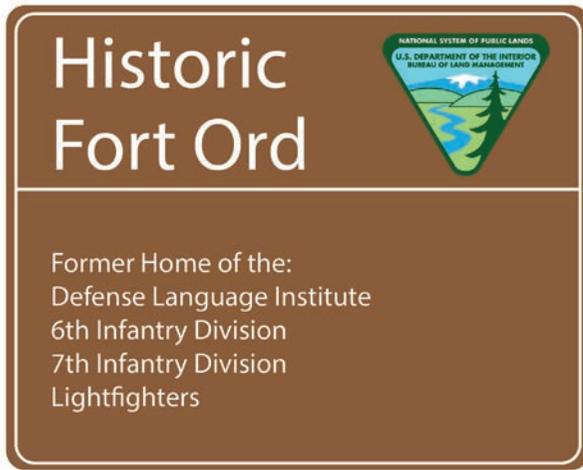
The six stars around the border represent the six municipalities which now make up Historic Fort Ord. Colors are meant to reflect the natural landscape as well as the military aesthetic.



Signs with unusual shapes can help draw the eye and mark a place as unique. To this end, the previous medallion style can be transformed by breaking the containing circle to emphasize the name of the site.

The shape of the military insignia badge is easily recognizable to any serviceman, and is used to emphasize the history of the site. The shape of a Private First Class badge reminds us of the many new recruits who were trained here. The text across the bottom reads “From swords to plowshares, the service continues”, emphasizing former Fort Ord’s transition from military to civil service.

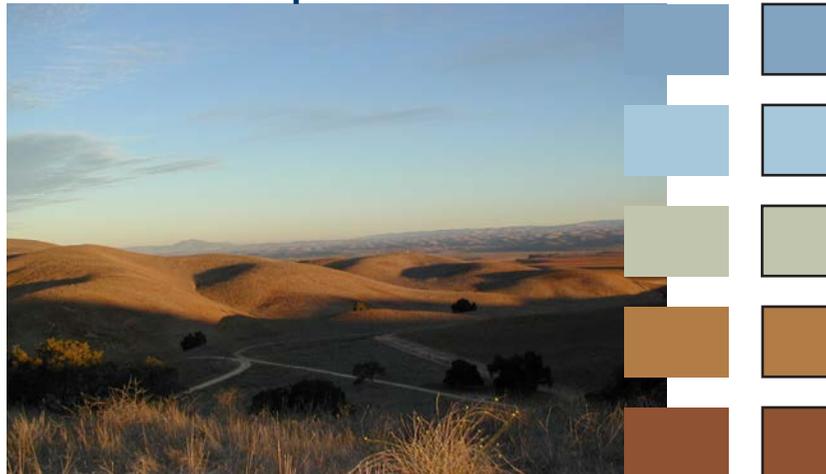
## Sample Logos & Vehicular Signage



## Sample Pedestrian Signage



## Color Palette Inspiration



More traditional signage options are less attractive, but more easily identifiable. This style of sign is typical in national parks, usually made of rustic local materials which share a color palette with the rest of their surroundings. This style of sign also lends itself well to additional textual information, while the other options may require secondary informative plaques.



The Forever Fort Ord concept is inspired by iconic symbols from the federal, state and local levels. The lettering used for the phrase “Forever Fort Ord” matches the font of the immediately recognizable World War II posters of Uncle Sam and Rosie the Riveter. The flowers depicted in the logo are Eschscholzia Californica, also known as the California Poppy. The Poppy is California’s state flower, and is one of the many species of wildflowers that can be found within the Monument. The logo of the Fort Ord Reuse Authority is embedded within the image, completing the representation of scales.

## Putting it all together...



*Proposed Entryway Sign in the Roundabout at Imjin Parkway*

A gateway sign could be incorporated into a new roundabout at the intersection of Imjin Parkway and Second Avenue. Combining signage and landscaping within the roundabout would serve the dual function of improving traffic flow through this intersection and to welcome visitors to the area. Wayfinding for visitors looking to see former Fort Ord sites, could be significantly improved by using common elements and symbology for signage throughout the area to mark sites that were part of former Fort Ord’s history.

# Identifiable Centers

**Authority:** The “Identifiable Centers” guideline refines 1997 Reuse Plan design principles: Mixed Use Development/Increased Density, page 121; Design Principle 3, page 9 and 59; General Development Character & Design Objectives, page 154 and 165; Community Form, page 62; and especially, Design Principle 6, regarding “Building Height,” “Signage,” and “Other matters of visual importance.”

## Purpose

One should be able to tell when arriving to a former Fort Ord destination and upon reaching its center. A proper center has places where the public feels welcome and are encouraged to congregate. Typically, at least one outdoor public environment exists at the center that spatially acts as a well-defined outdoor room.

While an outdoor public environment most often takes the form of a square or plaza, it is also possible to give shape to the center with one great street of continuous shopfronts or a special “four corners” intersection of important streets that include shade and other protection from the elements.



*Shopping streets of Carmel-by-the-Sea*

It is the storefronts of Carmel-by-the-Sea that let visitors know they have arrived. While the city offers several plazas and small parks, the streets themselves are the most sought-after public space.



Bird's eye view of the intersection of Junipero and Ocean Avenues in Carmel.

## Application

This guideline applies to:

- Centers
- Gateways

## Intent

To re-build areas that can be clearly identified as a center and have the characteristics of a destination that people desire.

## Principles

### Shopfronts in Centers

1. Build retail frontage storefronts (shopfronts) to be functional and attractive.
2. Design projects to ensure 80% of the linear feet of ground floor retail or office building facades to be within 5' of the front property line.
3. Buildings with ground floor retail or office uses should have un-tinted transparent storefront windows and/or doors covering at least 60% of the wall area between 3' and 8' above sidewalk.
4. Storefront windows shall extend 8' to 12' above the sidewalk.
5. Entrances should be at least every 50' along the length of shopfronts.
6. Shopfronts should be protected from above by either an awning, arcade or marquee.
7. The sidewalk adjacent to all shopfronts should maintain a minimum clear path of 5'.

### Public Spaces and Civic Buildings in Centers

1. Designate and site civic centers memorably.
2. Schools, recreational facilities, and places of worship should be embedded within communities or within walking distance of the community edge.
3. Locate civic buildings on high ground, adjacent to public spaces, within public spaces, or at the terminal axis of a street or long view to increase their visibility.

## Measurement



Wall area must be 60% clear glass 3' to 8' feet above sidewalk.



Shopfronts shall be protected from above by either an awning, arcade or marquee.



Civic building adjacent to a green or within a green tell new arrivals they have reached the center of the community.

## Anatomy of a Walkable, Central Retail Environment

Streets like Alvarado Street in Monterey, Pacific Avenue in Santa Cruz, Ocean Avenue in Carmel, and Lighthouse Drive in Pacific Grove host flourishing retail environments. Illustrated in the images on the right are a series of shopfront elements, many of which can be added incrementally to commercial streets on former Fort Ord like 2<sup>nd</sup> Avenue or Imjin Parkway. The sequence demonstrates how each component can positively contribute to the overall composition of the street.

Street lighting and trees are vertical elements which help to define the public realm while also making the pedestrian feel safer and more comfortable. On-street parking allows easy vehicular access to storefronts and also acts as a buffer from traffic that is moving within the roadway. Adding benches, trash bins and planters is a simple way to transform a street into a place; these components prompt the pedestrian to linger next to the retail shops. Providing space on the sidewalk for restaurant dining is another method for activating the public space. Extending sidewalk dining into the on-street parking zone, also known as a “parklet,” quickly and affordably maximizes retail opportunities.



1. Street-oriented architecture, wide sidewalks and on-street parking are essential “building blocks”.



4. Awnings protect pedestrians from the weather.



7. Adding an outside display zone close to the street will increase retail visibility.



2. Canopy street trees provide shade and visually define the public space.



3. Street furniture helps to transform a sidewalk into a place.



5. Appropriately-scaled signage and adequate lighting contribute to street composition.



6. Sidewalk dining activates the public space.



8. Parklets that extend into the on-street parking area enable more dining options.



9. Angled parking adds additional parking spaces.

# Street Connectivity

**Authority:** The “Street Connectivity” guideline refines 1997 Reuse Plan design principles: Mixed Use Development/Increased Density, page 121; Design Principle 3, page 9 and 59; General Development Character & Design Objectives, page 154 and 165; Community Form, page 62; and especially, Design Principle 6, regarding “Road design,” and “Other matters of visual importance.”

## Purpose

### The Network

Streets should flow through developments and connect to future redevelopment to allow former Fort Ord to be accessed by investment. An interconnected street network offers high capacity without overreliance on expensive, wide, disruptive arterials. Dead-ends and culs-de-sac should only be permitted when unavoidable due to environmental or engineering constraints.

### Block Size

In the Monterey Bay region the walkable parts of towns and cities are found where the blocks are the smallest. Seaside neighborhoods have blocks that are less than 1,800 feet in perimeter, Downtown Monterey blocks are typically less than 1,200 feet, and Carmel-By-The-Sea blocks are 900 feet (counting breaks from pedestrian passages). People who live in areas with finely grained street networks walk more and drive less than people in large-block downtowns or suburban cul-de-sac suburbs.



Seaside

A network of connected streets with relatively small lot sizes makes Seaside a walkable community.

Bird's eye view of Seaside in the vicinity of Fremont Boulevard.



## Application

This guideline applies to:

- Centers
- Gateways
- Corridors

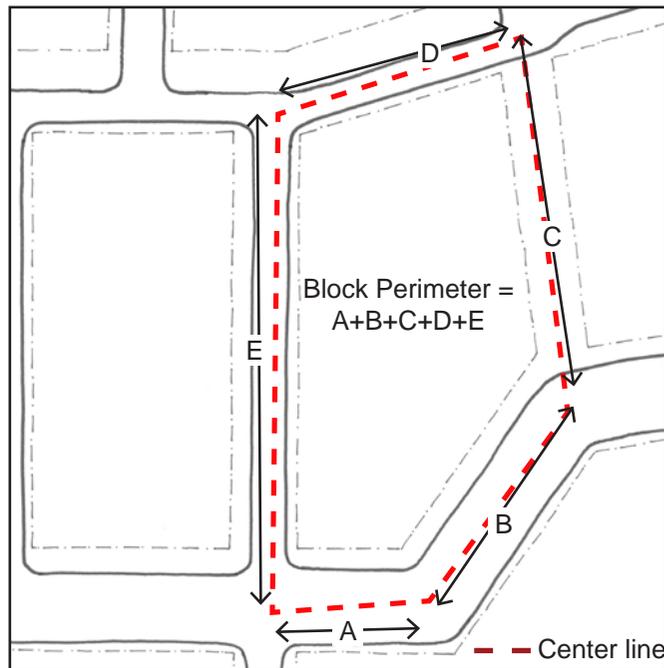
## Intent

To create walkable block sizes and an interconnected network of streets to increase neighborhood aesthetics, walkability, livability, sociability, and sustainability while maximizing the public infrastructure investment of regional corridors on former Fort Ord lands.

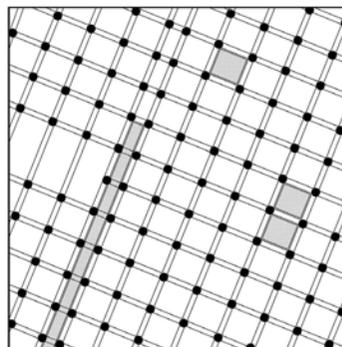
## Principles

1. Avoid dead-ends and cul-de-sacs. Exceptions could result from physical obstacles like slopes steeper than 15%, utility rights-of-way, existing limited-access motor vehicles rights-of-way, and parks and dedicated open space.
2. New neighborhood streets should connect to adjacent streets where connecting street stubs are available.
3. Plan roadways to end in street stubs to facilitate future connections, even when there is not existing adjacent development.
4. An average block perimeter should be a maximum of 2,400 linear feet.
5. Design projects such that the internal connectivity of streets is at least 140 intersections per square mile. Do not count streets that lead to cul-de-sacs. Count only those streets that are not gated and open for use by the general public.
6. Bend streets with restraint. Minimize exaggerated curves depending on topography.

## Measurement



Block perimeter measurements are taken along the center lines between right-of-ways regardless of roadway pavement locations.

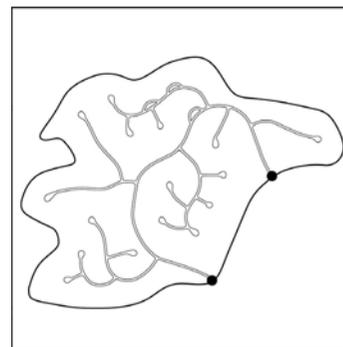


### Portland, Oregon

Total # of Street Intersections: 102

Area of Samples Size: 0.23 sq. mi

Connections (inters./Sq. mi.): 443.5



### Irvine, California

Total # of Street Intersections: 2

Area of Samples Size: 0.23 sq. mi

Connections (inters./Sq. mi.): 8.7

Intersection density measurements are taken by identifying the center of a proposed new development, creating a one mile square block around that center and counting every intersection with the exception of those that lead to cul-de-sacs. Alleys and pedestrian passages are counted.

# Fronts Face Fronts

**Authority:** The “Fronts Face Fronts” guideline refines 1997 Reuse Plan design principles: Mixed Use Development/Increased Density, page 121; Design Principle 3, page 9 and 59; General Development Character & Design Objectives, page 154 and 165; Community Form, page 62; and especially, Design Principle 6, regarding “Road design,” and “Other matters of visual importance.”

## Purpose

Building orientation is the first step in making great streets and public spaces. Generally, buildings have fronts, sides, and backs. The appropriate and most carefully designed fronts of buildings should face streets and public spaces. The rear and sides of buildings, which often incorporate a building’s service functions and typically have fewer doors and windows, should not face the public realm. The front building façades shall be built parallel to a front lot line or to the tangent of a curved front lot line.

Establish the relationship between building fronts and backs to ensure public spaces have natural surveillance and to avoid the blighting influence of the backs of buildings facing public spaces. Building fronts shall face fronts of other buildings; fronts may face sides where necessary; but fronts do not face the back of buildings.

Buildings with frontage on two thoroughfares, shall have their building front onto the thoroughfare most likely to accommodate pedestrian traffic.



*Ocean View Boulevard in Pacific Grove*

The discipline of fronts-facing-fronts, as found without exception in historic Pacific Grove, creates streetscapes in which pedestrians are always looking at interesting front façades.

Bird’s eye view of Hoffman Avenue between Lighthouse and Hawthorne Avenues in Monterey.



## Application

This guideline applies to:

- Centers
- Gateways
- Corridors

## Intent

- Establish the relationship between the fronts and backs of buildings to insure that public spaces have natural surveillance from buildings
- Avoid the blighting influence of the backs of buildings facing public spaces.
- Improve aesthetics by avoiding streetscapes where garage doors, service entrances, blank walls, or parking lots are the dominant visual image.
- Promote public health by providing safe, appealing, and comfortable street environments that encourage daily activity and avoid pedestrian injuries.
- Promote walking to reduce vehicle miles travelled.
- When physical obstacles make optimal orientation impossible the sides of buildings may be allowed to face streets and public spaces.

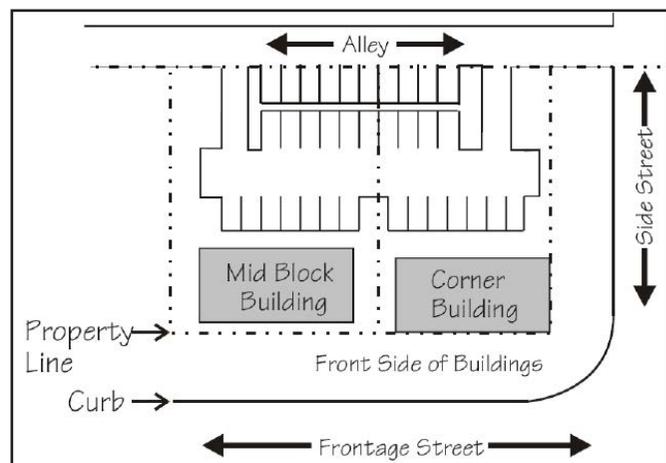
## Principles

1. The principal building façade should be built parallel to a front lot line or to the tangent of a curved front lot line.
2. Building fronts display a building’s principal façade and should face either streets or public spaces.
3. Fronts of buildings should face fronts of other buildings; fronts can face sides where necessary; fronts should not face backs.
4. Buildings with frontage on two thoroughfares, should have their building front on the thoroughfare most likely to accommodate pedestrian traffic.
5. Secondary entrances should be permitted on side rear façades, or on separate thoroughfare frontage.
6. Parking lots should be located behind buildings whenever possible.
7. Parking garages should be lined by ground floor retail or be located within the interior of blocks to maintain active, interesting streets whenever possible.

## Measurement

Fronts facing Fronts	Acceptable (Preferred)
Backs facing Backs	Acceptable (Preferred)
Fronts facing Sides	Acceptable
Sides facing Backs	Acceptable
Fronts facing Backs	Discouraged

Building Orientation Configurations



Parking should be located behind structures, ideally along an alley and shared among businesses.

House



Front



Side



Back

Main Street



Front



Side



Back

# Scale of Public Space

**Authority:** The “Scale of Public Space” guideline refines 1997 Reuse Plan design principles: Mixed Use Development/Increased Density, page 121; Design Principle 3, page 9 and 59; General Development Character & Design Objectives, page 154 and 165; Community Form, page 62; and especially, Design Principle 6, regarding “Building Height,” and “Other matters of visual importance.”

## Purpose

Public spaces are defined by their size, relationship to buildings, relationship to the streets that surround them, and location on a natural-to-center character district spectrum.

The context or setting (residential neighborhood, rural community, or urban center) determines the scale and local impact of a public space. A residential community’s small park is the neighborhood center where children play and friends and family get together. An urban center’s large plaza serves to physically define the civic center or heart of a village, town or city.

If they are to succeed in their function, open spaces should be based on their context. Many public spaces go unused due to incompatibility with their surroundings. Public spaces also go unused when they feel too large for their intended use. Lastly, a diversity of open space types should be used to create options and variety.



*Bird’s Eye View of Colton Hall in Friendly Plaza, Monterey, CA*

The relationship of the civic buildings to the park and plaza, where the facades face the park, create a sense of accessibility. The smaller open space ties the plaza to the street and serves to define the area as a civic center. This relationship is best understood at the pedestrian scale.

Bird’s eye view of Trinity Avenue in Seaside.



## Application & Measurement

This guideline applies to:

- Centers
- Gateways

### Intent

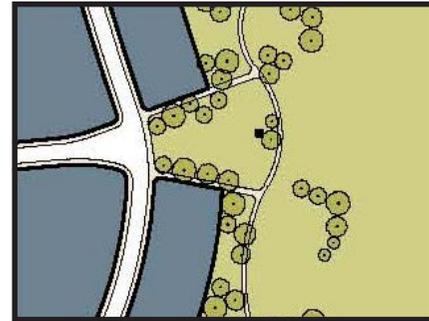
Design open spaces to be consistent with local context.

### Principles

Urban open space types (plazas and squares) should be located closer to centers and rural types (greens and parks) should be located closer to the edge of development.

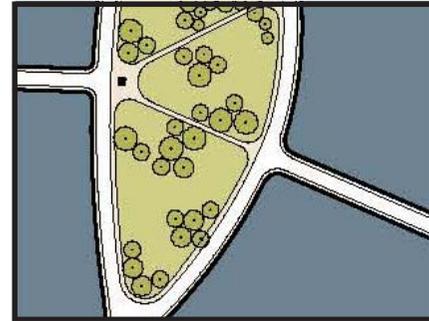
- 1. Park:** A *Park* is a natural preserve available for unstructured or structured recreation. Its landscape should consist of paths, trails, meadows, water bodies, woodland, ball fields, and open shelters, all naturalistically disposed. Parks often have a minimum of 8 acres. Parks should be located at the edges of development, *or may be smaller to meet city or county requirements.*
- 2. Green:** A *Green* is available for unstructured recreation. A Green should be spatially defined by landscaping rather than building frontages. Its landscape should consist of lawn and trees, naturalistically disposed. Greens range from 1/4 acre to 8 acres.
- 3. Square:** A *Square* is available for unstructured recreation and civic purposes. A square is spatially defined by building frontages. A square does not have to be square shaped; they come in all kinds of shapes. Squares should be located at gateways and the intersection of important thoroughfares where possible. Ideally, the size ranges from 1/4 acre to 3 acres.
- 4. Plaza:** A *Plaza* is available for civic purposes and commercial activities. A plaza is spatially defined by building frontages. Trees are optional. Plazas tend to be hardscaped with brick, stone or even concrete. Plazas should be located at gateways, the intersection of important streets, or in front of civic buildings. A plaza ranges between 1/6 acre to around 2 acres.
- 5. Playground:** A *Playground* is an open space designed and equipped for the recreation of children. A playground should be fenced and may include an open shelter. Playgrounds should be interspersed within residential areas and may be placed within a block. Playgrounds should be included within parks and greens. Playgrounds come in all shapes and sizes. Playground equipment should be shaded.

Park

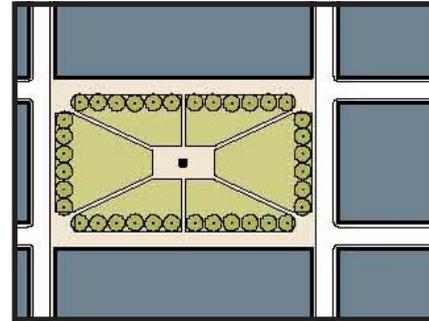


Edges

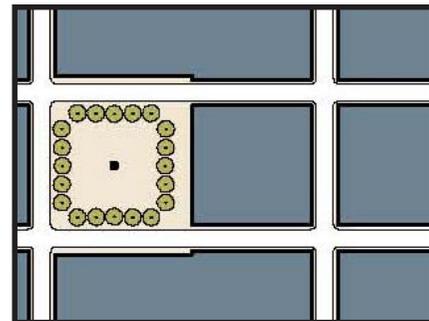
Green



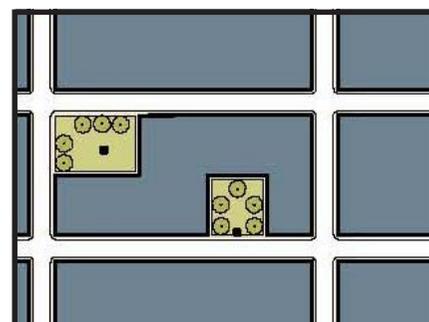
Square



Plaza



Playground



Centers

Playgrounds may be located anywhere

# Primacy of Open Spaces

**Authority:** The “Primacy of Open Space” guideline refines 1997 Reuse Plan design principles: Mixed Use Development/Increased Density, page 121; Design Principle 3, page 9 and 59; General Development Character & Design Objectives, page 154 and 165; Community Form, page 62; and especially, Design Principle 6, regarding “Landscaping,” and “Other matters of visual importance.”

## Purpose

### Open Space

Public open space provides a venue for light, air, landscaping, and an experience of nature. Public parks, plazas, and green streetscapes serve as the “living rooms” for community life — where the public can gather, meet and interact. Open space may also contribute to higher real estate value for the surrounding uses while sustaining environmental character.

A range of parks from tot-lots and ballfields to neighborhood gardens and dog parks should be distributed throughout developments, and sited within walking distance of community life.

### Civic Buildings

The City of Monterey’s City Hall is located on Friendly Plaza, Seaside’s City Hall is adjacent to a park, and the Marina Library is located atop Locke Paddon Park. New public buildings should be given honorific locations facing public open space wherever possible. The space becomes a destination and invites people to engage with the space and one another.



*Colton Hall in Monterey, CA*

Colton Hall in Monterey faces Friendly Plaza. This placement communicates a message that the building is accessible by the public.

Bird’s eye view of Locke Paddon Park in Marina.



## Application

This guideline applies to:

- Centers
- Gateways

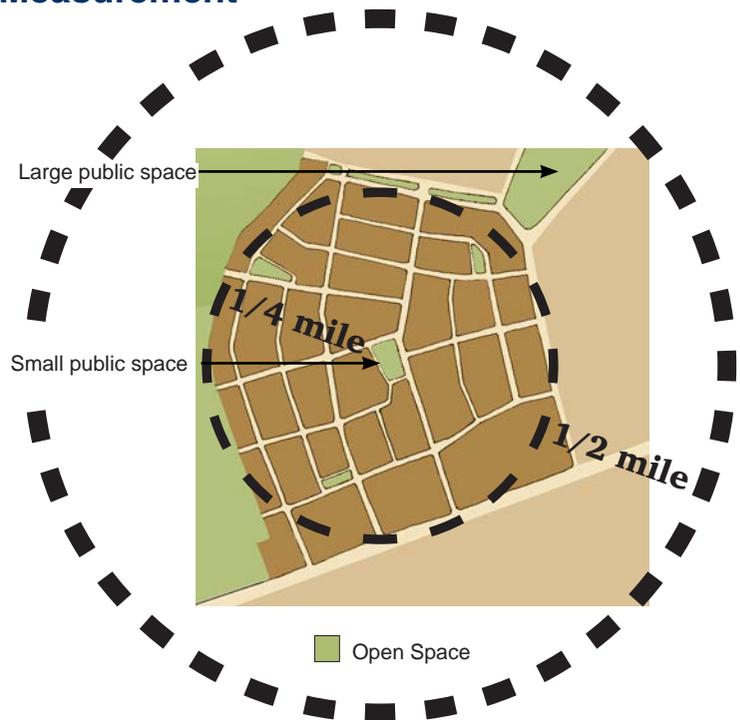
## Intent

To improve aesthetics, community life, and overall property values while providing for an ample number of functional public spaces.

## Principles

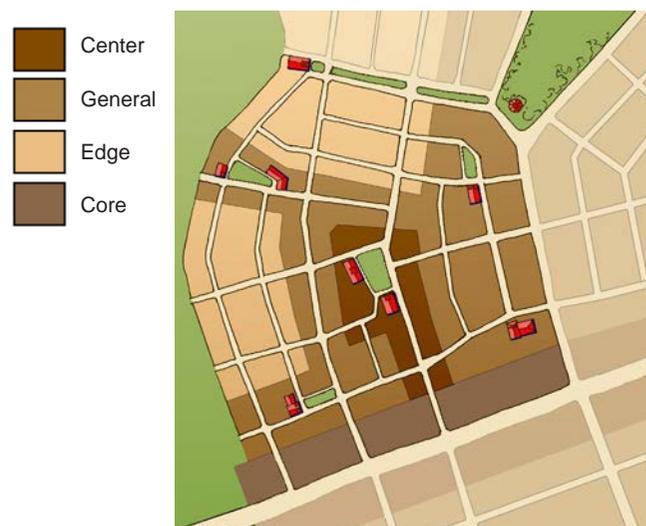
1. Locate new and existing development within 1/4 mile of a small public plaza or playground, and within 1/2 mile of a green, square, or park.
2. Utilize prominent locations, like the ends of street, the tops of hills, or land adjacent to parks, for civic buildings including churches, schools, shared pool facilities, community halls, memorials, and simple pavilions.

## Measurement



## Placement of Open Spaces

Open spaces can vary in size, shape and use, but should be a minimum of a five-minute-walk (1,320 feet) from most dwellings. Larger outdoor recreation areas should be accessible with a ten-minute-walk (2,650 feet). Where possible open space should be located at the physical center of development.



## Placement of Civic Buildings

Civic buildings provide a community's social infrastructure. Where possible new civic buildings should be located on open spaces or at the intersection of important streets. Where possible civic buildings should be located at the physical center of development.

# Mix of Building Types

**Authority:** The “Mix of Building Types” guideline refines 1997 Reuse Plan design principles: Mixed Use Development/Increased Density, page 121; Design Principle 3, page 9 and 59; General Development Character & Design Objectives, page 154 and 165; Community Form, page 62; and especially, Design Principle 6, regarding “Road Design,” “Building Height,” and “Other matters of visual importance.”

## Purpose

Former Fort Ord reuse should mix building types to create centers and neighborhoods which allow a diversity of ages and incomes, and permit residents to trade up or downsize their homes to avert area relocation. Multi-generational neighborhoods and life-cycle neighborhoods create strong social networks, avoid concentrations of poverty or wealth, and lead to safer communities.

In centers and gateways, many daily living activities should be within walking distance, allowing independence to “non-drivers” and encouraging walking, which works to reduce the number and length of automobile trips and conserve energy.



*Alvarado Street, Downtown Monterey, CA*

Almost every kind of building type can be found on Alvarado Street from mixed-use shopfronts to courtyard apartment buildings. On the perpendicular residential streets cottages, apartment houses, duplexes, and single-family houses sit side-by-side.

Bird’s eye view of Central Avenue between 17<sup>th</sup> and 15<sup>th</sup> Street in Pacific Grove.



2.34

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MIXED-USE

ACCESSORY DWELLING

COTTAGE

COURTYARD APARTMENT BUILDING

## Application

This guideline applies to:

- Centers
- Gateways

### Intent

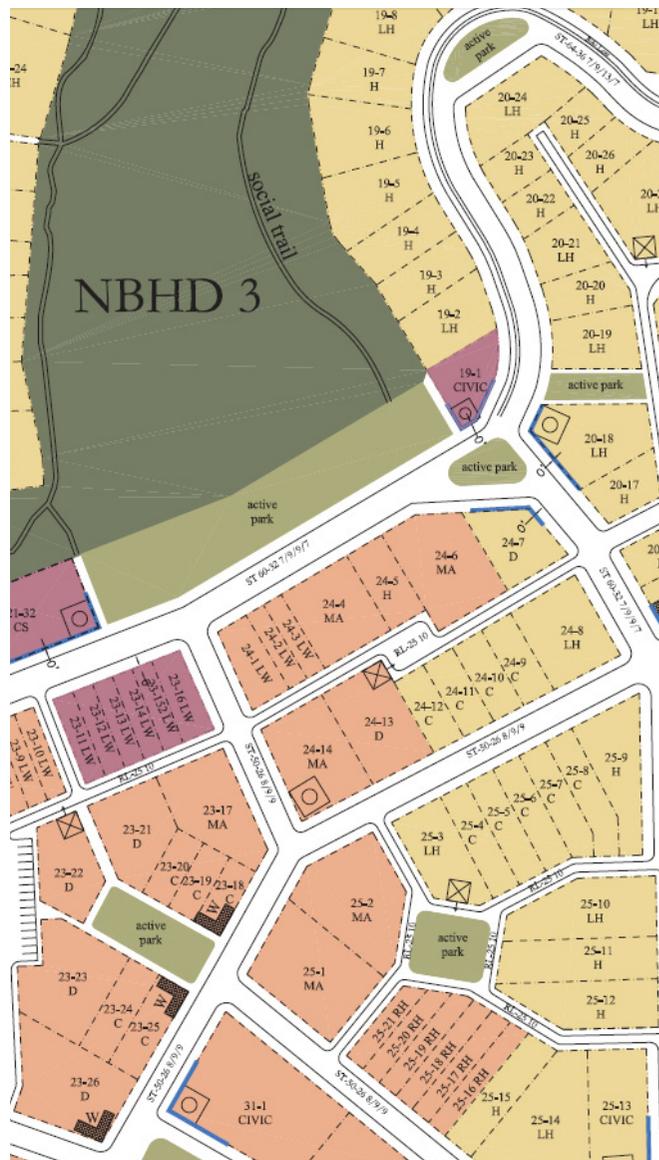
New centers and gateways should be compact, pedestrian-friendly and mixed-use. Within neighborhoods near centers and gateways, plan a broad range of building types.

### Principles

Projects 500 units or more or on 100 acres (or more), should provide at least three of the following building types: Single Family House, Accessory Dwelling Unit, Cottage, Duplex, Apartment House, Courtyard Apartment, Rowhouse, Mixed-Use Building, Corner Store, Small Market/Gas Station, Park-Under Building, or Large-Footprint Building.

## Measurement

The figures that follow illustrate a variety of building types. They include Single Family House, Accessory Dwelling Unit, Cottage, Duplex, Apartment House, Courtyard Apartment, Rowhouse, Mixed-Use Building, Corner Store, Small Market/Gas Station, Park-Under Building, and the Large-Footprint Building.



Site plans should show lot types and/or building types and all new large projects should demonstrate at least three different kinds of types.

## Building Types

The following are descriptions of building/lot types which should be the elements of new centers and gateways.

### Single Family House

A single-family detached residence which occupies a single building lot.

Typical Height: 1 - 2.5 stories

Typical Lot Frontage Width: 50' - 80'

Typical Uses: residential

### Accessory Dwelling Unit

A subordinate living unit detached from a single-family dwelling that provides basic requirements for independent living. An Accessory Dwelling Unit should be a stand-alone structure, or located above a garage or workshop behind the primary residence.

Typical Height: 1 - 2 stories

Typical Uses: residential

Accessory Dwelling Units should have a maximum foot print of 800 square feet.

### Cottage

A small single-family residence.

Typical Height: 1 - 1.5 stories

Typical Lot Frontage Width: 25' - 50'

Typical Uses: residential

Required Features: A front porch or stoop is required along at least 50% of the building's street frontage.

### Duplex

Two single-family semi-detached dwelling units which occupy a single building lot.

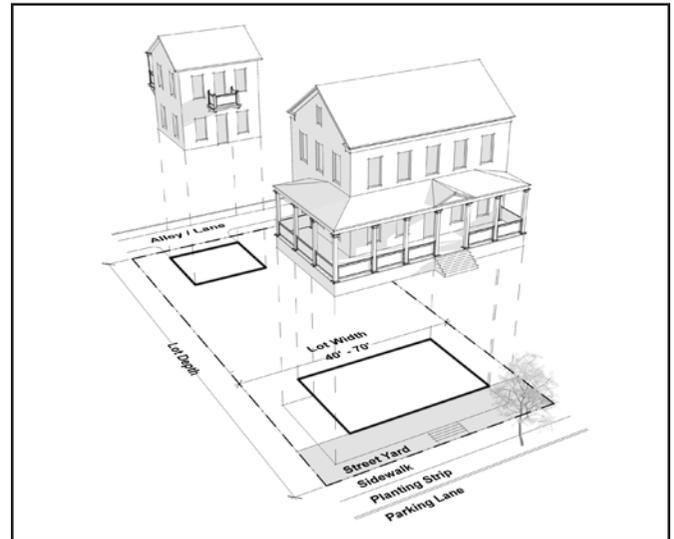
Typical Height: 1 - 2.5 stories

Typical Lot Frontage Width: 40' - 80'

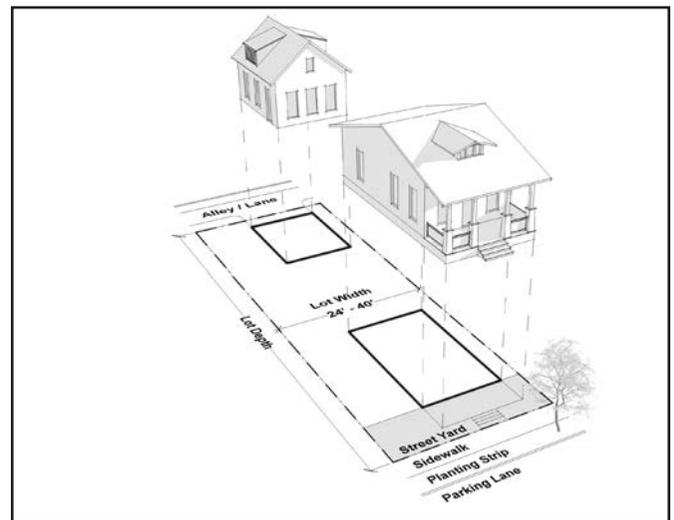
Typical Uses: residential

Each dwelling unit should have its own primary entrance which must face the street.

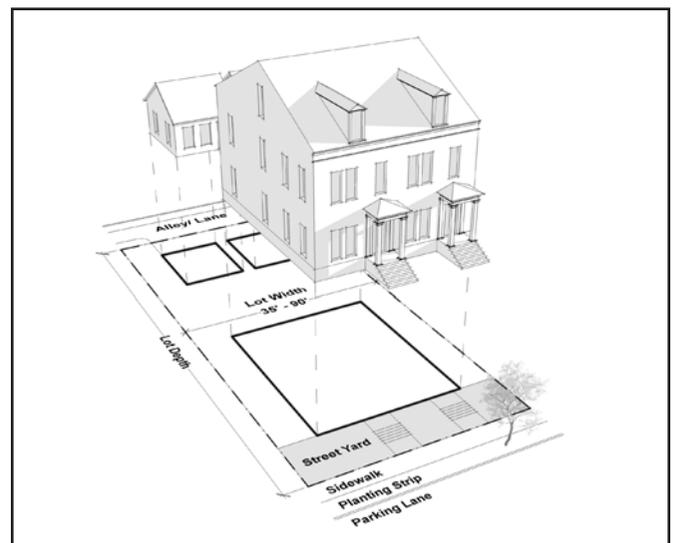
Required Features: Stoop or Front Porch



Single Family House with Rear Accessory Dwelling Unit



Cottage



Duplex

### Apartment House

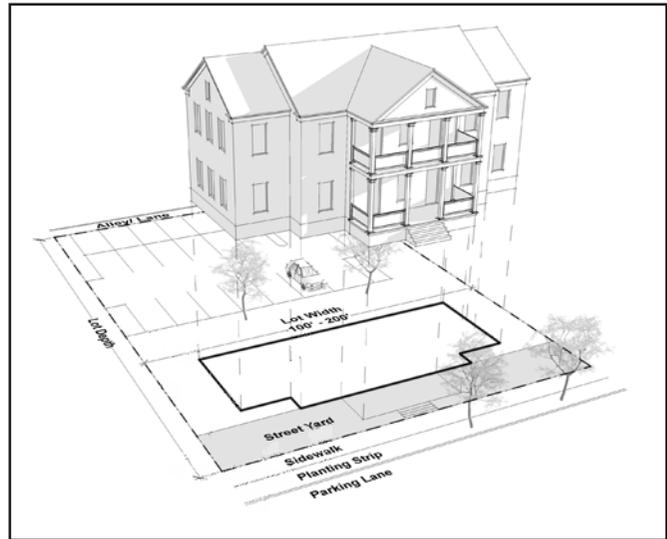
Multi-family attached dwelling units which occupy a single building lot.

Typical Height: 1 - 2.5 stories

Typical Lot Frontage Width: 80' - 150'

Typical Uses: residential

Required Features: Stoop or Front Porch



Apartment House

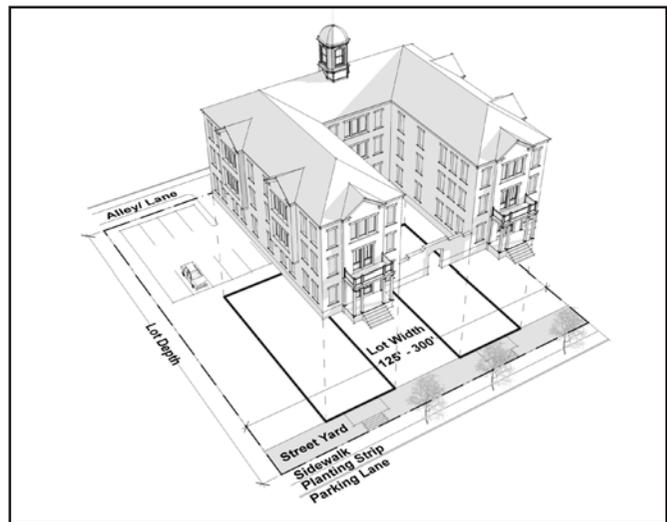
### Courtyard Apartment Building

Apartment building which wraps around a central common courtyard that opens to the street.

Typical Height: 1 - 3 stories

Typical Lot Frontage Width: 100' - 200'

Typical Uses: residential



Courtyard Apartment Building

### Rowhouse

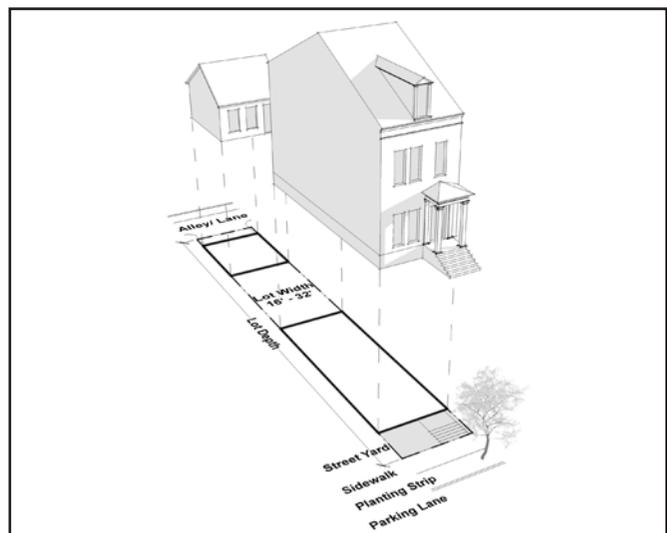
Also known as a Townhouse. Single-family attached residences which each occupy a single lot.

Typical Height: 2 - 3.5 stories

Typical Lot Frontage Width: 16' - 32'

Typical Uses: residential

Required Features: Stoop or Front Porch



Rowhouse

### Mixed-Use Building

A building type that is mixed-use in nature and features shopfronts along the sidewalk at the street level, with office or residential spaces in the upper floors.

Typical Height: 2 - 5 stories

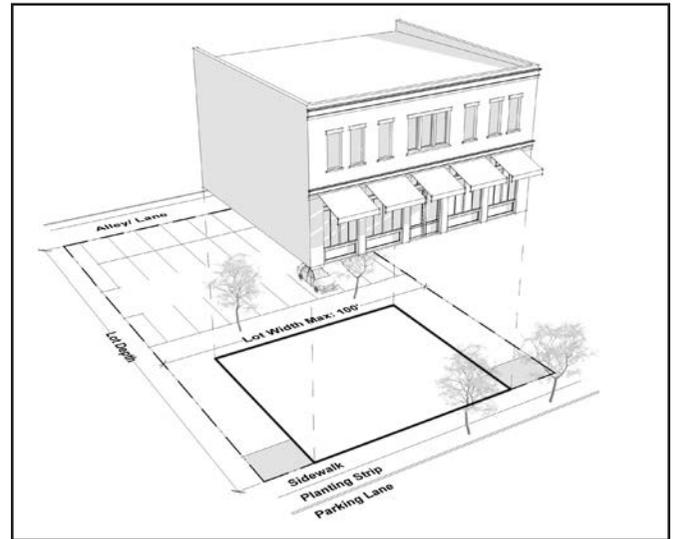
Typical Lot Frontage Width: 40' - 300'

Typical Uses: retail or office at street level, office or residential in upper levels.

Shopfronts are required along the sidewalk over at least 60% of the building's primary street frontage.

The sidewalks adjacent to shopfronts must be covered by either arcades or marquees.

Parking should be located in the rear of the building, out of view from adjacent streets.



Mixed-Use Building

### Corner/Convenience Store

A building type that is mixed-use in nature and features shopfronts along the sidewalk at the street level with residential spaces in the upper floors. This building is specifically designed to fit in character and scale with a single-family residential neighborhood.

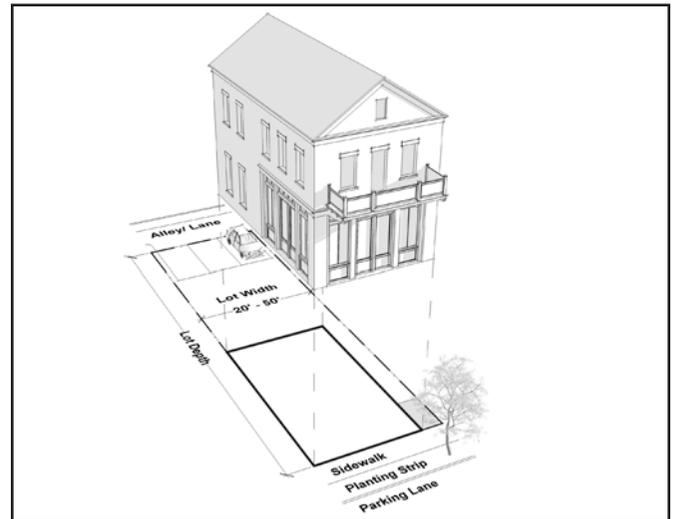
Typical Height: 1 - 2.5 stories

Typical Lot Frontage Width: 20' - 50'

Typical Uses: retail or office at street level, office or residential in upper levels.

Required Features: Arcade or Awnings.

Parking should be located in the rear of the building, out of view from adjacent streets.



Corner/Convenience Store

### Small Market / Gas Station

A building primarily devoted to the sale of automotive gasoline. The primary building is mixed-use in nature and features shopfronts along the sidewalk at the street level, with office space in the upper floors. Gas pumps are located in the rear of the building.

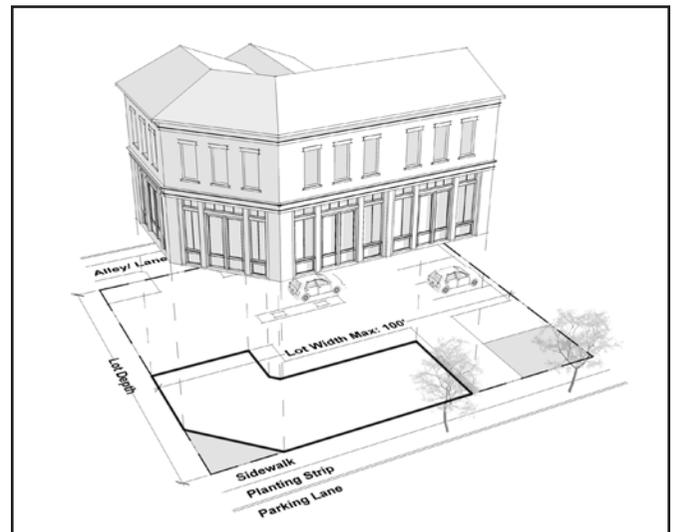
Typical Height: 1 - 2.5 stories

Typical Lot Frontage Width: 50' - 100'

Typical Uses: retail at street level, office in upper levels.

Shopfronts are required along the sidewalk over at least 60% of the building's primary street frontage.

Gas pumps and parking should be located in the rear of the building, out of view from adjacent streets.



Small Market / Gas Station

### Park-Under Building

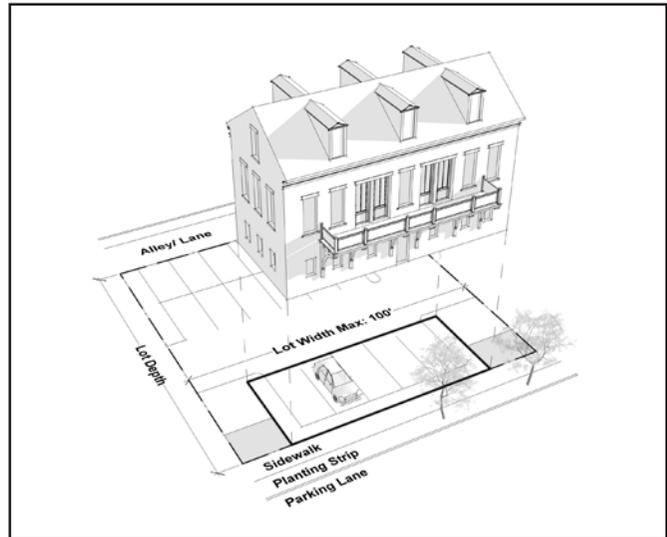
A shallow building type with parking on the ground floor and residential or office spaces in the upper floors.

Typical Height: 2 - 3 stories

Typical Lot Frontage Width: 40' - 100'

Typical Uses: parking at street level, office or residential in upper levels.

There should be a minimum of one ground floor street front building entrance.



Park-Under Building

### Large-Footprint Building

A commercial building over 10,000 square foot footprint.

Typical Height: 1 - 2 stories

Typical Lot Frontage Width: 100' - 500'

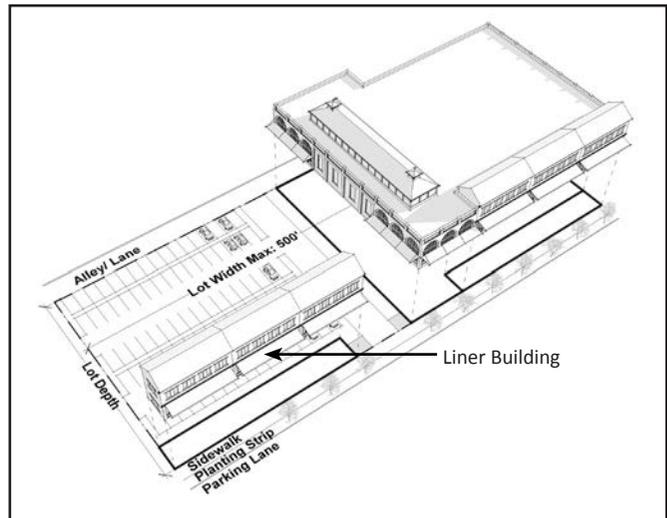
Typical Uses: retail, industrial, office and/or lobby space at street level, office in upper levels

Shopfronts are required along the sidewalk over at least 50% of the building's street frontage.

The sidewalks adjacent to shopfronts must be covered by either awnings, arcades, or marquees.

Blank walls and parking lots must be masked from the street by Liner Buildings or Park Under Buildings.

If parking is provided on site, it should be located in the building side or rear, out of adjacent street view.



Large-Footprint Building

# Context Sensitive Trails

**Authority:** The “Context Sensitive Trails” guideline refines 1997 Reuse Plan design principles: Mixed Use Development/Increased Density, page 121; Design Principle 3, page 9 and 59; General Development Character & Design Objectives, page 154 and 165; Community Form, page 62; and especially, Design Principle 6, regarding “Landscaping,” “Signage,” and “Other matters of visual importance.”

## Purpose

The natural environment, and connections with the environment, is part of what makes the Monterey Bay area special. Residents treasure the quality of life associated with living in a place that offers magnificent views and a variety of recreational opportunities. The Design Guidelines amplify this Base Reuse Plan requirement and seek to supplement efforts to protect and access the natural landscape, increase parks and trails, and preserve long views across open green spaces.

In addition to quality of life, the environment distinguishes Monterey Bay from other regions in the market place. A robust trail system can be an important factor in marketing the unique quality of life to future residents and employers.

A challenge to any large-scale trail or trailhead system in the region is that outside the National Monument much of former Fort Ord was developed by the federal government and is slated for economic recovery replacement projects. Trails must adapt to the local context as they traverse it.



*Frog Pond Wetland Preserve, Del Rey Oaks, CA*

Trails can be clearly defined and cemented pathways or dirt roads clear of debris. Within the Frog Pond Wetland Preserve, dirt paths can coexist side by side with stairs for pedestrians.

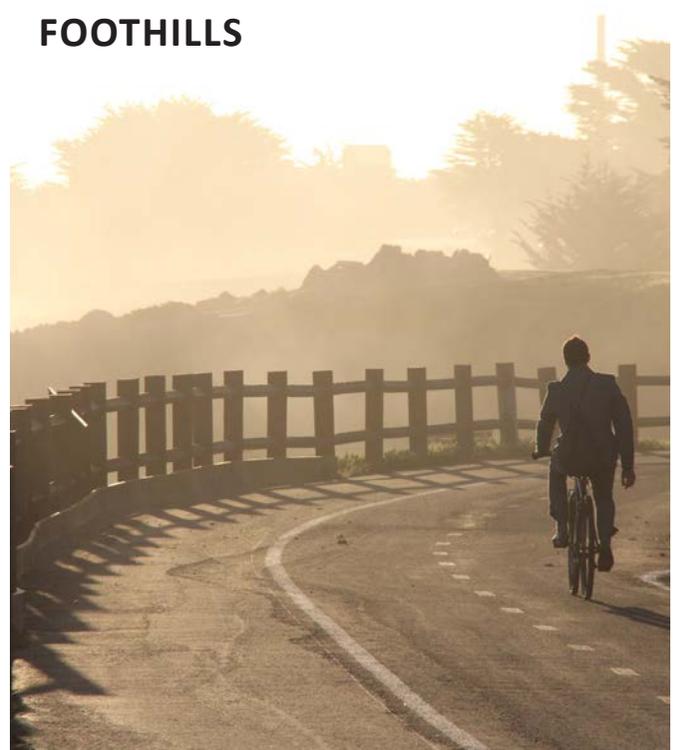
## COASTAL



*Coastal Bike Trail, Fort Ord Dunes State Park*

The coastal bike trail that curves along the Monterey Bay is an example of a dedicated bike path that provides connections for bikers between the urban environment and the natural landscape throughout the Monterey Bay Region.

## FOOTHILLS



*Coastal Bike Trail, Pacific Grove*

One trail may have different features along the length of its course. In Pacific Grove, the trail becomes more ‘urban’ in portions. This path also has room for runners.

## Application

This guideline applies to:

- Trails

## Intent

To build trail systems that serve to:

- Safely link urban landscapes with natural amenities.
- Create connectivity that enable residents and visitors to residences, areas of activity and leisure.

## Principles

For all projects:

1. Continue to incorporate trails and trailheads into new development in alignment with locally-adopted plans.
2. Municipalities should continue to investigate diverse, new funding sources and methods for preserving open space in partnership with regional not-for-profit organizations and individual property owners.

## HIGHLANDS



*Bike Trail, Fort Ord National Monument*

The Fort Ord National Monument has a network of trails that are frequented by local bikers and hikers. They provide a pathway through the monument that enables people to appreciate the beauty of the area without disrupting it.

## Measurement

A variety of trail types are necessary as trails traverse through urban, suburban, emerging suburban, and rural areas. Three possible trail section approaches are illustrated on the following pages. They are a starting point for site planners as they consider connections to the larger system.



## Legend

- |  |               |
|--|---------------|
| Through Street (cars)                      | Walking Paths |
| Drives (Running, Cycling, Carriages, Cars) | Hiking Trails |

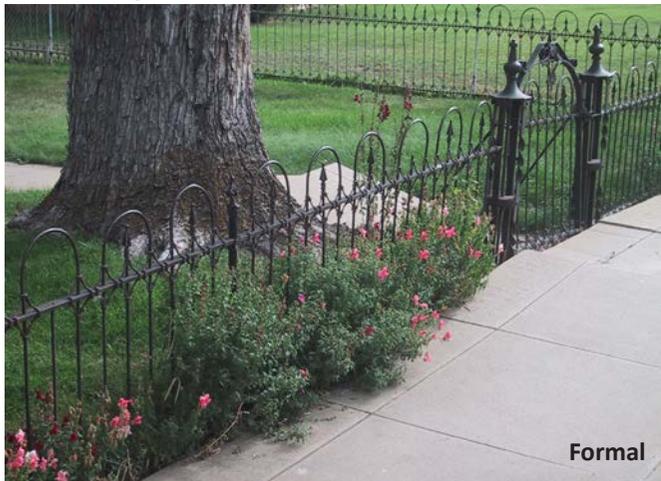
## Natural Landscape: Formal to Rustic Landscape Architecture

Landscape architecture styles fall within a spectrum of formal to rustic. Formal landscape architecture involves geometric design, clean lines, pavement, and intentional focal pieces. Rustic architecture is designed to blend into the surrounding environment, using natural materials, such as wood and stone. This style is often used by the National Park Service in their designs of gateways, trails and visitor centers within national parks.

### Landscaping

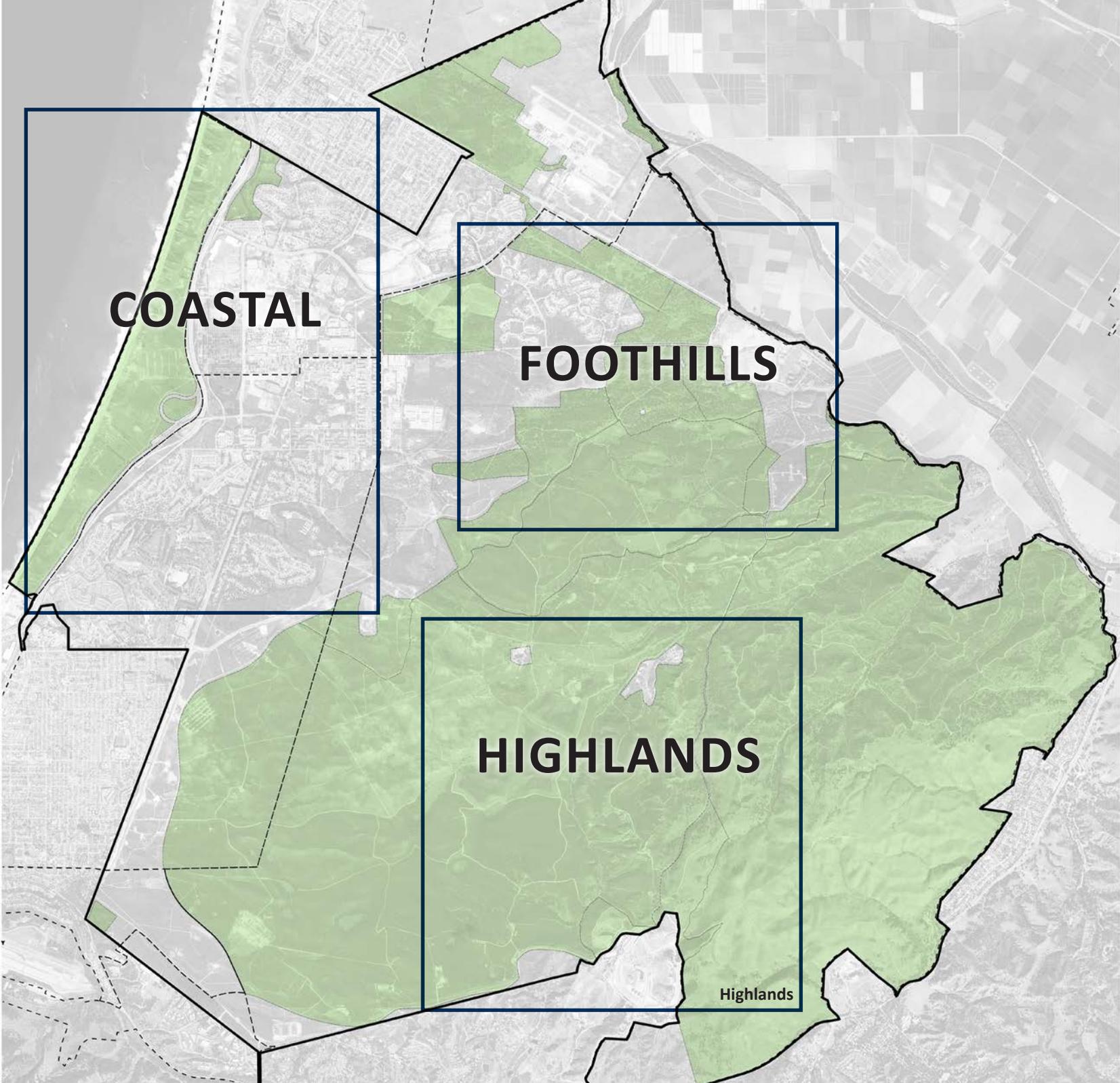


### Fencing



### Signage





## Natural Landscape Areas

### Coastal:

Fort Ord Dunes State Park marks the western edge of Former Fort Ord and features dunes that run parallel to the shoreline. Several types of geologic landforms make up the dunes including beach strand, active dunes, stabilized dunes and uplands.

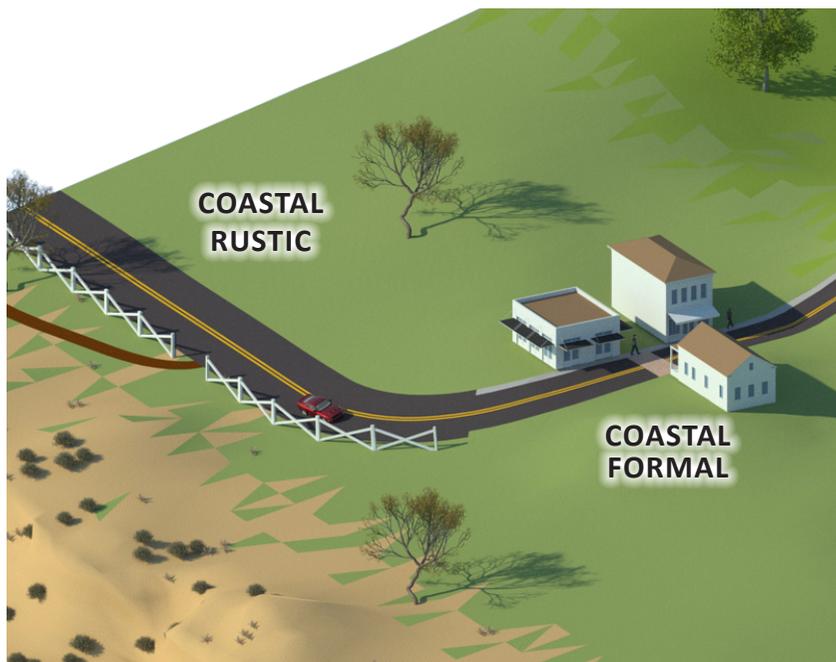
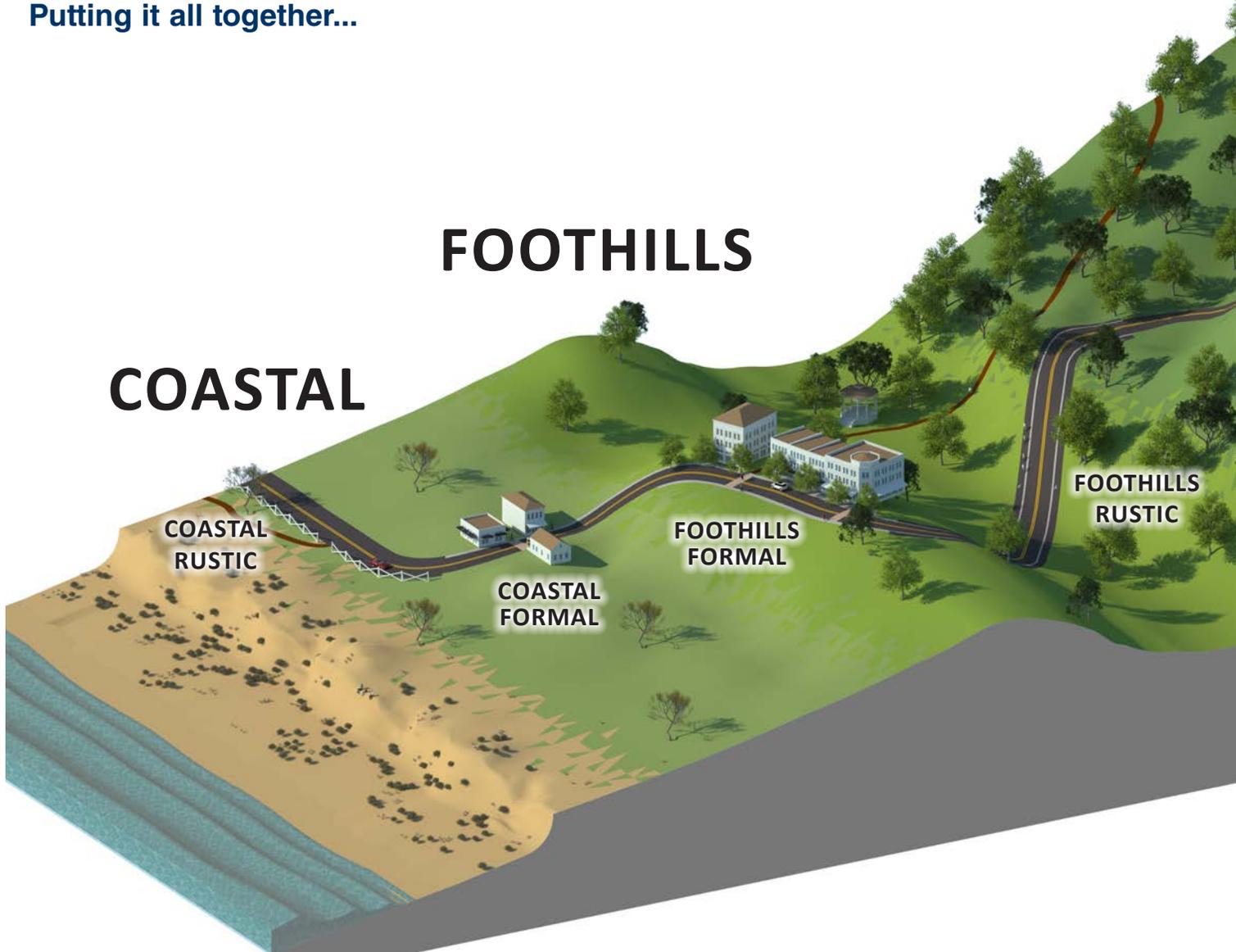
### Foothills:

The foothills are a transition zone between the upper elevations of the Fort Ord National Monument and the shore. The foothills feature a variety of habitat types such as riparian forest, perennial grasslands and vernal pools.

### Highlands:

Fort Ord National Monument features a range of ecosystems that include grassland hills, oak woodlands, and maritime chaparral, however, the monument's most distinctive feature is its high elevations. The national monument lands are visible from everywhere on the Bay. The Fort Ord National Monument offers 86 miles of often rugged trails on its 14,000+ acres and an experience of wild nature.

Putting it all together...



**Coastal:**

Trails in the coastal region should be designed to maximize views and access to the natural landscape. In Rustic settings, recreational pedestrian and bicycle paths run roughly parallel to, but are separated from, single lane roads.

In formal settings, these paths become paved and recombine with the road system as sidewalks and bike lanes. Automotive roads are narrowed and pedestrian crossings are given priority where they intersect the road. Alternative paving strategies are encouraged in settled areas to improve drainage, reduce vehicle speed, and enhance the sense of place.

# HIGHLANDS

HIGHLANDS  
RUSTIC

HIGHLANDS  
FORMAL



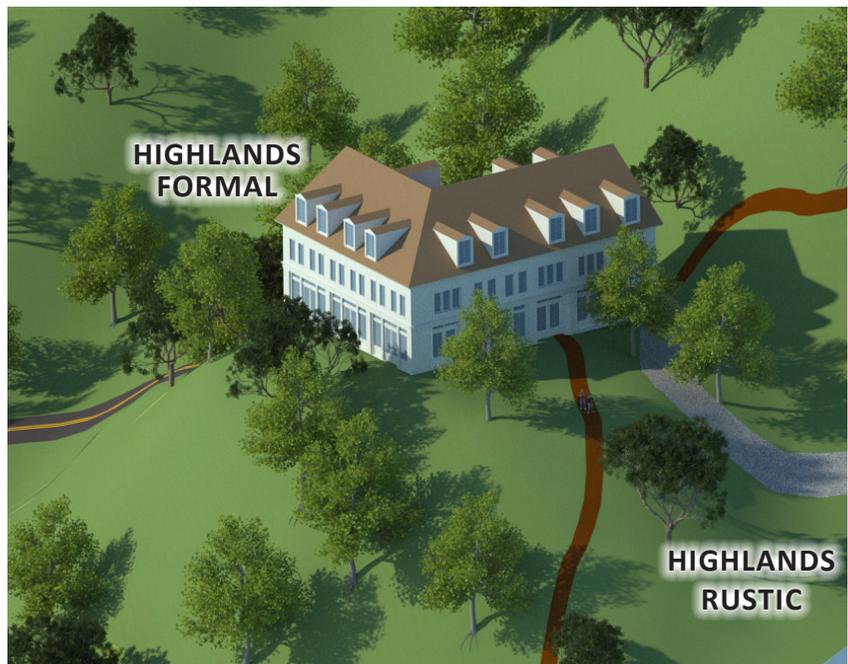
## Highlands:

The highlands of the Fort Ord National Monument contain an abundance of recreational trails for hiking, mountain biking, and more. These rustic trails are built out of the natural materials which surround them and should have minimal effect on the character of the area. Rustic roads are predominantly unpaved, but maintained.

Formal trails shall be paved to enable the handicapped to access nature. Formal roads connect trail-head destinations to population centers.

HIGHLANDS  
FORMAL

HIGHLANDS  
RUSTIC



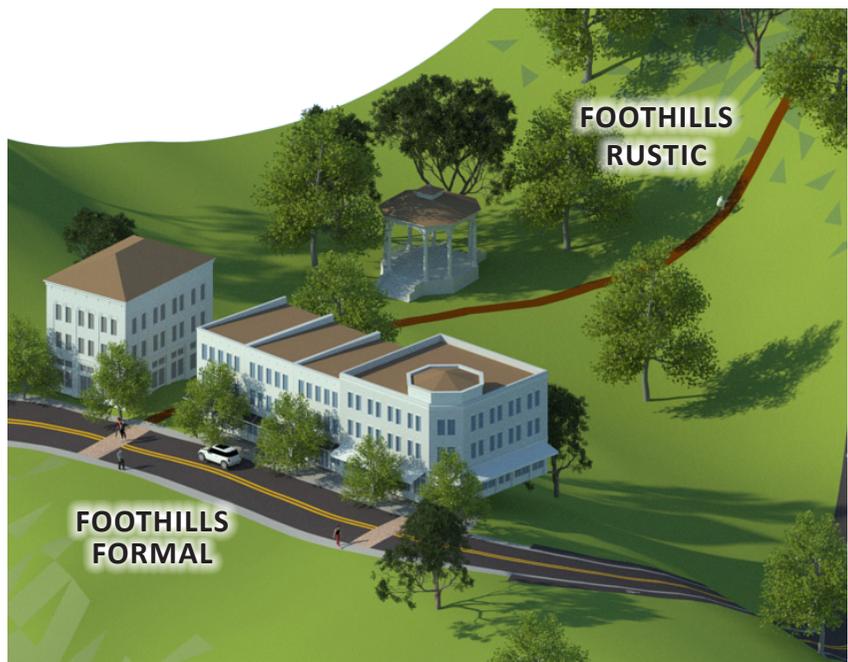
## Foothills:

Trails in the foothill region connect residents of urban spaces to their natural amenities and thus improve quality of life. In formal settings, roads should be lined with trees, and balance priority between cars, pedestrians, and bicycles. Recreational paths are paved, but where they pass through settled areas should be distinctly separate from sidewalks.

In rustic settings, some roadways change to gravel. Recreational paths are constructed of natural materials and fit into the landscape. Routes should be laid out to maximize views and the experience of nature, or connect destinations.

FOOTHILLS  
RUSTIC

FOOTHILLS  
FORMAL



## Rural Corridor Trail

The intent of this trail cross-section is to show a trail that is parallel to but separated from a roadway so as to embrace the open space in a rural setting. The trail should meander within the separation to follow contours in terrain, introduce new spaces hidden from previous sections, or go around or over hills to create vistas and viewpoints.

Both horizontal and/or vertical separation from the roadway are important to creating a user experience that is secluded from the roadway noise. Included are the design elements and spacing that can contribute and create a pleasant, user friendly experience for people on the corridor on foot, bike, or horse. Paved paths should be used for pedestrians and bicyclists

and dirt paths for people on horseback. Trees can be used to help with separation and create view corridors and shade opportunities. It is important that trees be setback from equestrian users so they are not impacted by branches when riding by on horseback.

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## Greenway Corridor Trail

The intent of this trail cross-section is to show various types of trails that are separated within a linear park or “Greenway”.

Included are the design elements and spacing that can contribute and create a pleasant, user friendly experience for people on the corridor on foot, bike, or horse. Paved paths should be used for pedestrians and bicyclists and dirt paths for people on horseback.

Roadways serving vehicles would be outside this corridor on the other side of the buildings. When the backs of the buildings back up to the greenway linear park it is important for these buildings to create activation and “eyes” on this corridor by having outdoor dining, benches, tables, and storefronts/backups that are open

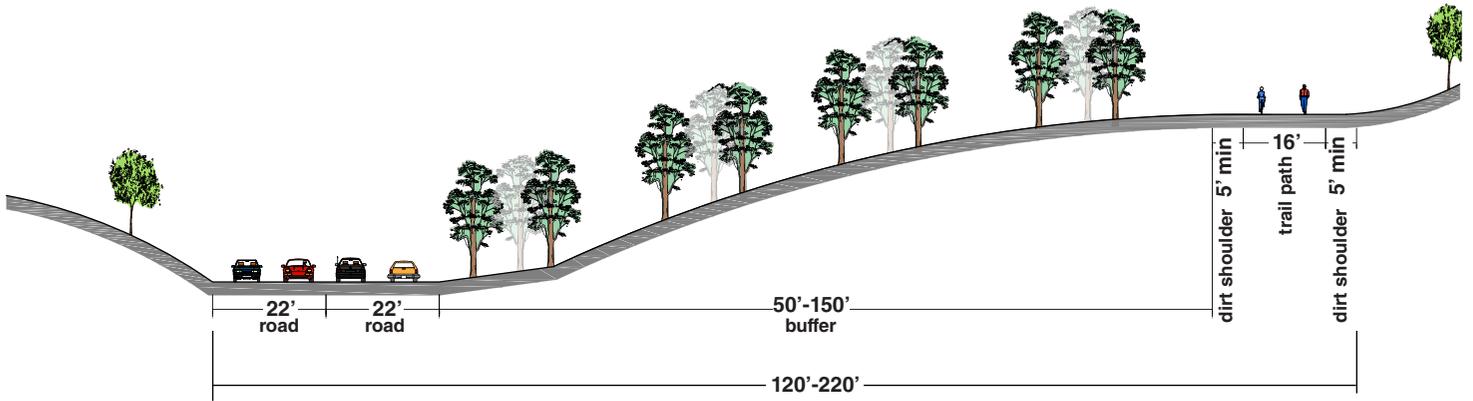
to the corridor and embrace the potential residents, recreational users, active transportation users that are all potential customers that will travel along this greenway.

Trees can either create linear corridors and/or be clustered to provide areas or rooms of open space.

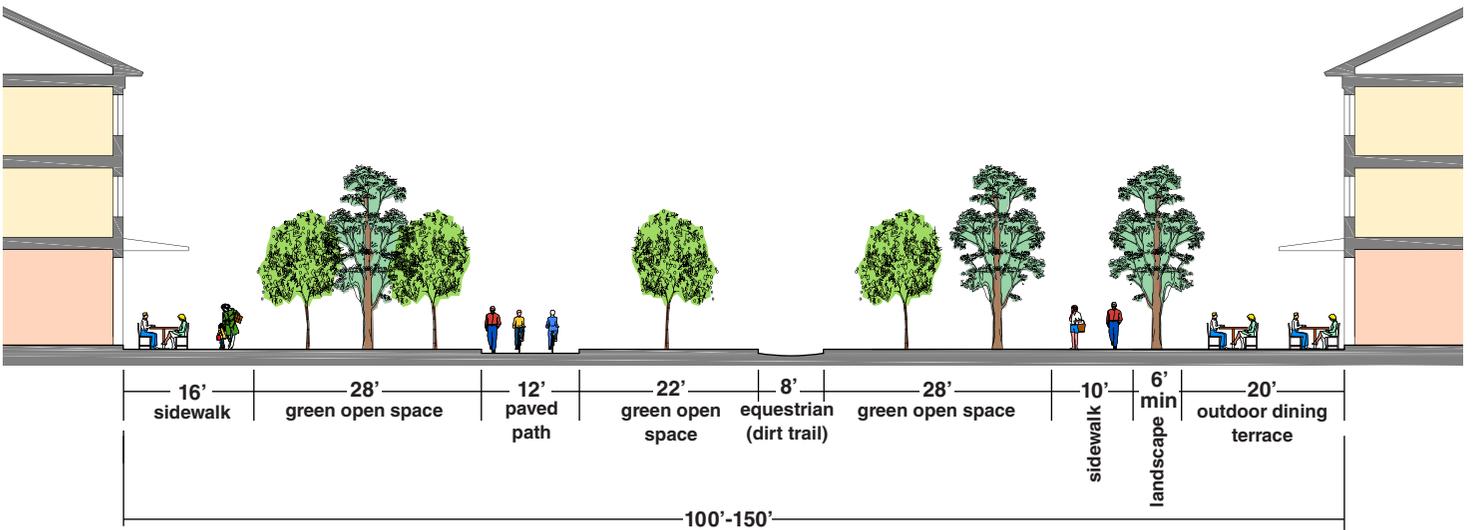
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## Urban Corridor Trail

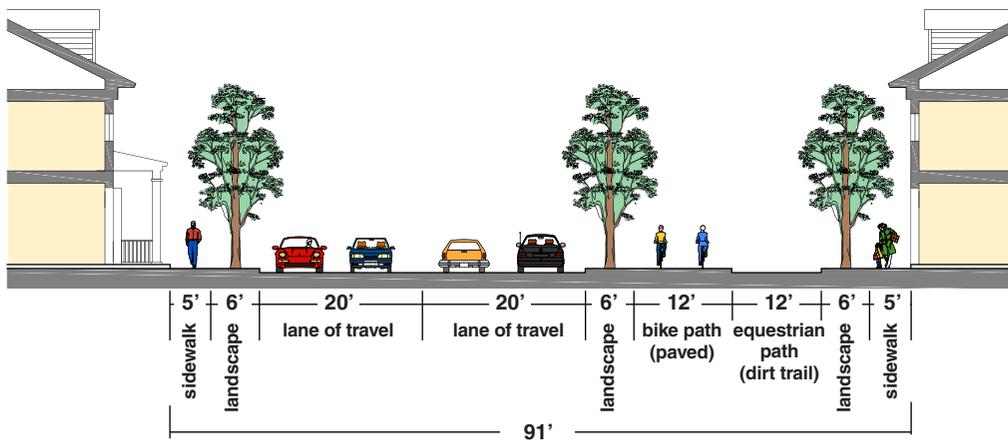
The intent of this trail cross-section is to show a trail parallel to a roadway and the design elements and spacing that can contribute and create a pleasant, user friendly experience for people on the corridor on foot, bike, or horse. The cross-section should have a balance and separation between motorist users and active users. Tree lined roadways and trails help define the corridors and space and also provide shade. Special consideration should be provided at roadway crossings and also connecting trails with storefronts. However the trail is separated from the sidewalk serving storefronts or residential homes.



**Rural Corridor Trail**



**Greenway Corridor Trail**



**Urban Corridor Trail**

## Native, Noninvasive, and Drought-Tolerant Species

To preserve the environmental quality and biodiversity of the Monterey Bay region, native vegetation should be used to maintain the natural character of the Fort Ord Monument. Ideal plant species will thrive in low-water conditions and serve a variety of needs, including shade, soil conservation, and aesthetic improvements. The following is a list of potential plant types. This list is not exhaustive and may be revised.

### Strong-Performing Trees

Common Name	Scientific Name
Pink Melaleuca	<i>Melaleuca nesophila</i>
Catalina Ironwood*	<i>Lyonothamnus floribundus</i>
New Zealand Christmas Tree	<i>Metrosideros excelsa</i>
Monterey Cypress*	<i>Cupressus macrocarpa</i>
Red Gum	<i>Eucalyptus camaldulensis</i>
Manna Gum	<i>Eucalyptus viminalis</i>
Red Ironbark	<i>Eucalyptus sideroxylon</i>
Monterey Pine*	<i>Pinus radiata</i>
Red Flowering Gum	<i>Eucalyptus ficifolia</i>
Water Gum	<i>Tristaniopsis laurina</i>
California Sycamore*	<i>Platanus racemosa</i>
Aristocrat Pear	<i>Pyrus calleryana 'Aristocrat'</i>
Chanticlear Pear	<i>Pyrus calleryana 'Chanticlear'</i>

### Accent Trees

Common Name	Scientific Name
American Agave	<i>Agave americana</i> )
Foxtail Agave	<i>Agave attenuata</i> )
Renegade Cordyline	<i>Cordyline 'Renegade'</i>
Sunburst Pinwheel	<i>Aeonium 'Pinwheel'</i>
Coral Aloe	<i>Aloe striata</i>
Torch Aloe	<i>Aloe arboresens</i> )
Pig's Ear	<i>Cotyledon orbiculata</i>
Gopher Spurge	<i>Euphorbia rigida</i>
Blue Chalk Sticks	<i>senecio mandraliscae</i>
Catalina Ironwood	<i>Lyonothamnus floribundus</i>
Eastern Redbud	<i>Cercis canadensis</i>
Texas Redbud	<i>C. canadensis texensis</i>
Purple Hop Bush	<i>Dodonaea viscosa 'Purpurea'</i>
Nichol's Willow Leaf	<i>Eucalyptus nicholii</i>
Silver Dollar Gum	<i>Eucalyptus polyanthemos</i>
Flowering Crabapple	<i>Malus species</i>
Cajeput Tree	<i>Melaleuca quinquenervia</i>
Flowering Plum	<i>Prunus cerasifera</i>

## Shrubs and Bushes

Common Name	Scientific Name
Flax	<i>Phormium 'Cream Delight'</i>
New Zealand Wind Grass	<i>Stipa arundinacea</i>
Feather Grass	<i>Stipa ichu</i>
Deer Grass	<i>Muhlenbergia rigens</i>
Feather Reed Grass	<i>Calamagrostis 'Karl Forster'</i>
Cape Reed	<i>Chondropetalum tectorum)</i>
Dwarf Mat Rush	<i>Lomandra 'Breeze'</i>
Yarrow	<i>Achillea millefolium</i>
Statice	<i>Limonium perezii</i>
Bulbine	<i>Bulbine 'Hallmark'</i>
Beach Primrose	<i>Camissonia cheiranthifolia)</i>
Lion's Tail	<i>Leonotis leonuris</i>
Rosemary	<i>Rosmarinus 'Tuscan Blue</i>
Dwarf Coast Rosemary	<i>Westringia 'Smokey'</i>
Pigeon Point Coyote Brush	<i>Baccharis 'Pigeon Point'</i>
Grevillea Lanigera	<i>Woolly Grevillea</i>
Arctostaphylos	<i>Manzanita</i>
Valley Violet*	<i>Ceanothus Maritimus</i>
Little Sur Manzanita*	<i>Arctostaphylos edmundsii</i>
Bearberry	<i>Arctostaphylos uva ursi</i>
Bush Anemone	<i>Carpenteria californica</i>
Monterey Ceanothus	<i>Ceanothus arboreus</i>
Lilac	<i>Ceanothus 'Conch</i>
Monterey Ceanothus	<i>Ceanothus rigidus</i>
Sageleaf Rockrose	<i>Cistus salviivoliis</i>
Bush Poppy	<i>Dendromecon rigida</i>



Monterey Cypress



Blue Chalk Sticks



Valley Violet

\*Native species