

Feasibility Study for the San Diego portion of the California Coastal Trail Technical Memorandum No. 2: Mapping

Purpose: *Technical Memorandum No. 2: Mapping* highlights mapping information related to this project that is found either in the public domain or by submittal from project stakeholders.

Types of data useful for the feasibility study process

Data that is used in feasibility studies is often gathered as part of a GIS (Geographic Information System) database. This makes for efficient, yet detailed use of available project resources. Utilization of GIS data is strongly encouraged. Useful GIS layers that should be investigated include (but are not limited to):

- Jurisdictions (cities, unincorporated areas, community designations)
- State and Federal (boundaries, federally owned land, state and national parks)
- Zoning, Land Use, and Master Plans
- Base maps (roadways, freeways, arterials, railroads, elevation maps)
- Public facilities (water fountains, restrooms, government buildings)
- Emergency services (hospitals, police stations)
- Restricted and environmentally sensitive areas
- Public works and parks (traffic signals, existing designated bikeways, construction)
- Surveying and land ownership (survey monuments, parcel maps)
- Public transportation (bus/rail stops, shelters, bus routes, rail lines)
- Hydrography (shoreline, rivers, channels, lakes, reservoirs, flood zones)
- Sidewalks and bike trails

Other useful data, such as crashes involving vehicles, bicycles, or pedestrians, are available from the California Highway Patrol. These data are not typically coded into GIS form but may be useful if entered into GIS format for analysis. Many of these GIS layers are available in print form as well. For example, paper or digital versions of the assessor's parcel maps are available from the Assessor/Recorder/County Clerk's office for a nominal fee.

Public and private utility providers also retain mapping data of major and minor underground and aerial utilities. Of most concern for a feasibility project are the locations of large or high-risk utilities such as (but not limited to):

- High pressure gas
- Natural gas and oil pipelines
- Electrical transmission lines (aerial, poles, and underground)
- Fiber optic/communications lines as part of national infrastructure, security, flight control, or train control
- Force sanitary sewer mains
- Large (e.g., greater than 48" diameter) potable water mains
- Large (e.g., greater than 60" diameter) gravity sanitary sewer mains

Some public sources of aerial photography may also be available, but this data can vary by year taken, resolution, and projection (ortho-rectification). This photography is usually best as a supplement to recent aerial photography that may be provided by state or local jurisdictions (or required by a scope of services).

Public sources for mapping data

SanGIS

<http://www.sangis.org/>

San Diego Association of Governments (SANDAG)

<http://www.sandag.org/index.asp?subclassid=100&fuseaction=home.subclasshome>

The National Map

<http://nationalmap.gov/>

State of California

<http://www.atlas.ca.gov/download.html>

Regional utility companies

In addition to private utilities, many of the incorporated cities along the corridor have water and/or sewer departments. There are potentially numerous utility agencies and companies. It would be beneficial to check with local stakeholders regarding any special utility that may run through their jurisdiction. The following is a partial list of major utility companies in the project area:

San Diego Gas & Electric Company (Sempra)

www.sdge.com/

City of San Diego Water Department

www.sandiego.gov/water/

San Diego County Water Authority

www.sdcwa.org

Project stakeholders with access to mapping data

Several project stakeholders may also collect and maintain useful or updated mapping data that have not been published. Departments such as Public Works, Engineering, Planning, or Community Development may regularly collect and update GIS data intended for internal use.

California Department of Transportation (Caltrans)

<http://www.dot.ca.gov/hq/tsip/gis/datalibrary/gisdatalibrary.html>

County of San Diego

<http://sdpublic.sdcounty.ca.gov/>

Unified Port of San Diego

<http://www.portofsandiego.org/>

Metropolitan Transit System (MTS)

<http://www.sdmts.com/>

North County Transit District (NCTD)

<http://www.gonctd.com/>

City of Oceanside

<http://www.ci.oceanside.ca.us/>

City of Carlsbad

<http://www.carlsbadca.gov/Pages/default.aspx>

City of Encinitas

<http://www.ci.encinitas.ca.us/>

City of Solana Beach

<http://www.ci.solana-beach.ca.us/csite/cms/home.htm>

City of Del Mar

<http://www.delmar.ca.us/default.aspx>

City of San Diego

<http://www.sandiego.gov/>

City of Coronado

<http://www.coronado.ca.us/>

City of National City

<http://www.ci.national-city.ca.us/>

City of Chula Vista

<http://www.chulavistaca.gov/>

City of Imperial Beach

<http://www.cityofib.com/>