

3.11 UTILITIES

This section summarizes the major utilities that are found within the State Route 22/West Orange County Connection (SR-22/WOCC) study area. These utilities include both high-risk and low-risk facilities as described in the Department's *Project Development Procedures Manual (PDPM) Appendix LL, Policy on High and Low Risk Underground Facilities Within Highway Rights of Way* (January 1997).¹

3.11.1 ELECTRICITY

Southern California Edison (SCE) provides electricity and maintains four identified substations within the SR-22/WOCC study area. These substations are located:

- South of SR-22, between Beverly Manor Road and Seal Beach Boulevard in Seal Beach;
- South of SR-22, between Newland Street and Yockey Street in Garden Grove;
- East of Newhope Street and south of SR-22, adjacent to the former Pacific Electric right-of-way in Garden Grove; and
- West of Lewis Street, adjacent to the north side of SR-22 in Garden Grove.

SCE also has a transmission easement that crosses over SR-22, west of Hoover Street, in Westminster. In addition, the substation at Lewis Street has several major power poles associated with the facilities that are located between SR-22 and the substation.

In conjunction with these major electrical facilities, most of the arterials, and some of the local streets in the study area, contain either overhead (aerial) or buried electrical lines. A majority of the aerial lines identified within the study area are high-risk facilities.

3.11.2 NATURAL GAS PIPELINES

Southern California Gas Company (SCG) provides gas within the SR-22/WOCC study area. Figure 3.11-1, SR-22/West Orange County Connection Project Utilities, shows the locations of several high-risk gas lines in the study area, as well as the locations of buried gas lines crossing SR-22 and other freeways.

3.11.3 WATER PIPELINES

For most cities in the SR-22/WOCC study area, the water resources division of the public works department provides water service. However, Southern California Water Company provides water service for the cities of Los Alamitos and Stanton.

Water lines are located within most of the streets crossing SR-22 and other freeways in the study area. Other than these water lines, the Cambridge Street Pumping Station, owned by the City of Santa Ana, is the only large-scale water facility located within the study area. The pumping station is located west of Cambridge Street and adjacent to the SR-22 right-of-way.

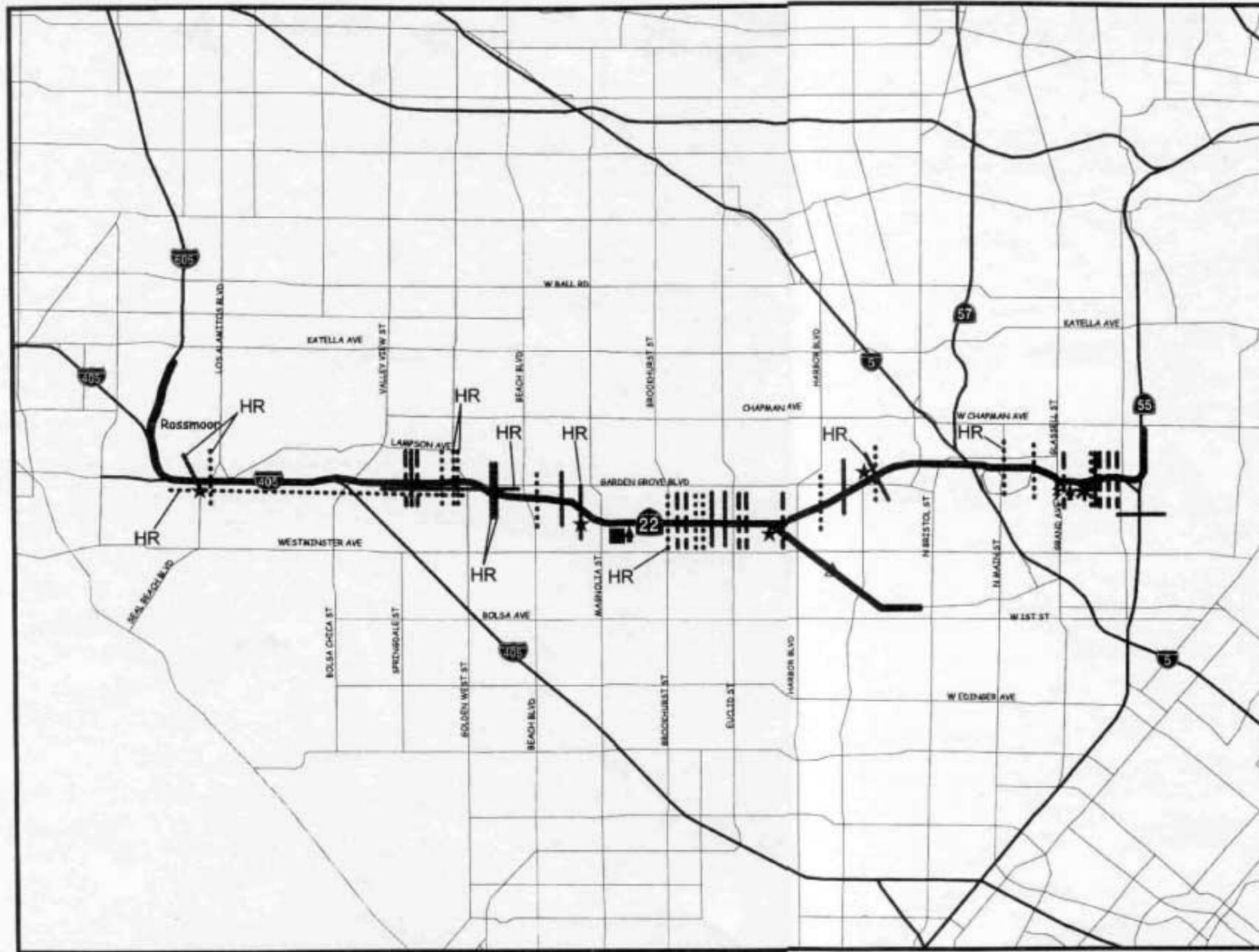
3.11.4 SEWER PIPELINES

The utilities division of the public works department maintains sewer utilities for most cities within the SR-22/WOCC study area. In addition to wastewater, some sewer systems also handle storm water runoff. These facilities are maintained by the cities where they are located. Once wastewater passes through the city's sewer system, the Orange County Sanitation District (OCSD) is responsible for its treatment. Sewer lines are present within most of the major streets, the streets crossing SR-22, and other freeways in the study area. Sewer lines identified within the study area that are not located within the street system are identified in Figure 3.11-1.

¹ Available at the Department's District 12 Office

3.11.5 TELEPHONE, CABLE, AND FIBER OPTICS

Century Communications, Comcast, Cox Communications, GTE California Inc., Media One, Pacific Bell, and Time Warner Communications provide telecommunication services within the SR-22/West Orange County Connection study area. The majority of these facilities are located within street rights-of-way, with some facilities located in easements between the SR-22 right-of-way line and the backyards of single-family residences. The locations of these facilities are shown in Figure 3.11-1, SR-22/West Orange County Connection Project Utilities.



SR-22/West Orange County Connection Project

Utilities

LEGEND

- Project Improvements
- Gas Line
- Sewer Line
- Electrical Line
- Electrical Substation
- Water Pumping Station
- Telecommunications Vault
- Sewer Manhole
- Cellular Tower(s)
- Splice Box
- HR High-risk utility

Source: Caltrans 2000.

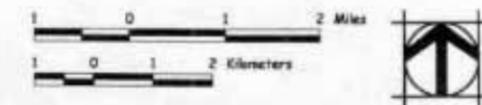


Figure 3.11-1

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