General Notes
This map does not represent a property survey and the positions of set control points established in this survey have not been determined relative to recorded property boundaries or street centerlines.

Field data for this project were collected over a period of three years as part of various GIS and surveying projects for the contributing agencies. All of the data was obtained by GPS receiver observations of the NAVSTAR GPS constellation consisting of twenty-seven (27) Block II satellites. Observations were P-code enabled and Selected Availability (SA) was on all times. Phase and Code on the L1 and L2 frequencies (C/A Code, P-Cod) were collected every 5 (five) seconds from four to nine (nine) satellites. Only satellites above a fifteen degree (15°) mask angle were included in the adjustment. Geodetic Dilution of Position (GDOP) was set to not exceed five (5). Observation times varied between six (6) and thirty (30) minutes for each occupation; each station was occupied not less than two separate occasions at intervals exceeding one hour apart. Weather was generally mild with clear skies and moderate temperatures.

The equipment used consisted of three (3): Leica System 300 Dual Frequency P-Coder receivers with firmware version 3.22 (two (2)) Nikon / Noucals Outdoor Dual Frequency Systems with SoftSurf core version 2.20. Vertical Control was performed using a Zeiss Disti 01 Digital Auto Level and foldable baton rod.

Post-processing of Leica observation data was performed using Leica SKI software version 1.999. Nikon / Newtalk post-processing was performed using Newtalk SoftSurf Post Processor Version 1.51. Network adjustment was performed using SisNet Version 6.1.5 and SisLever Version 1.3.8.

Horizontal positions and ellipsoid heights are based on the North American Datum of 1983 (NAD83) 1995 epoch adjustment of the High Precision Geodetic Network (HPGN). The positions of the following referenced stations were used in this data adjustment and serve as the BASIS OF BENCHMARKS for this map.

EMW3184 Burnt Reservoir
HPGN CA 05-01 (PDR EMW3184) Omega Hill *
HPGN CA 05-05 AQ (PDR EMW3186) Refugio
HPGN CA 05-AR (PDR EMW3180) Naples
HPGN CA 05-AS (PDR EMW3181) Tampico
*
This station also has a 1995.0 epoch adjustment used for this survey.

EMW9921, HPGN CA 05-AS (Tampico) was fixed at its record NAD83, 1995.35 epoch coordinates to validate the other HPGN Stations and establish a relationship with NGS and City of Santa Barbara Stations included in the survey.

Vicinity Map

Statement of Purpose
This Santa Barbara South Coast BaseNet Survey was commissioned by Goleta West Sanitary District and Goleta Water District to establish common mapping control for public and private Geographic Information System (GIS) development. The survey consists of recorded record published monuments, staked or relocated permanent monuments and temporary survey points along the South Coast of Santa Barbara County. The BaseNet extends from Refugio Beach on the West to Ogma Hill on Monte So in the East, from the Pacific Ocean on the South to the FAA installation facility on San Marcos Pass to the North. Major contributions to this survey were made to Monte So Fire District and the Santa Barbara County Office of the County Surveyor. Primary control was tied to the High Precision Geodetic Network (HPGN) published by the National Geodetic Survey (NGS) in the National Spatial Reference System (NSRS) with supplemental ties to local (NGS) stations, and monuments included in the City of Santa Barbara Control Network located in Book 147, Page 75 of Records of Survey in the Office of the County Surveyor, County of Santa Barbara, State of California.

County Surveyor’s Statement
This Map has been examined in accordance with Section 8766 of the Land Surveyor’s Act this of , 2000.

County Surveyor License Expiration date: 12/31/2000

Recorder’s Statement
File this 3rd day of November 2000, at 09:11 a.m., in book 170 of Records of Surveys at Page (s) 79 - 81, at the request of Sage Consultants, Inc., P.O. Box 7005, Long Beach, California 90807.

By: 

County Clerk - Recorder - Assessor

Surveyor’s Statement
This Map correctly represents a survey made by me or under my direction in conformance with the specifications of the requirements of the Land Surveyor’s Act or the request of the City of Goleta West Sanitary District and Goleta Water District November, 1999 and May, 2000.

P.L.S. No. 7038
License Expiration Date: 12-31-2000

Richard B. Moore

Record of Survey
of the
BaseNet Control Network
established at the request of
Goleta West Sanitary District and Goleta Water District
for Geographic Information System Development
known as the
South Coast BaseNet
County of Santa Barbara
State of California

SAGEConsultants, Inc.

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