

RECORD REFERENCES

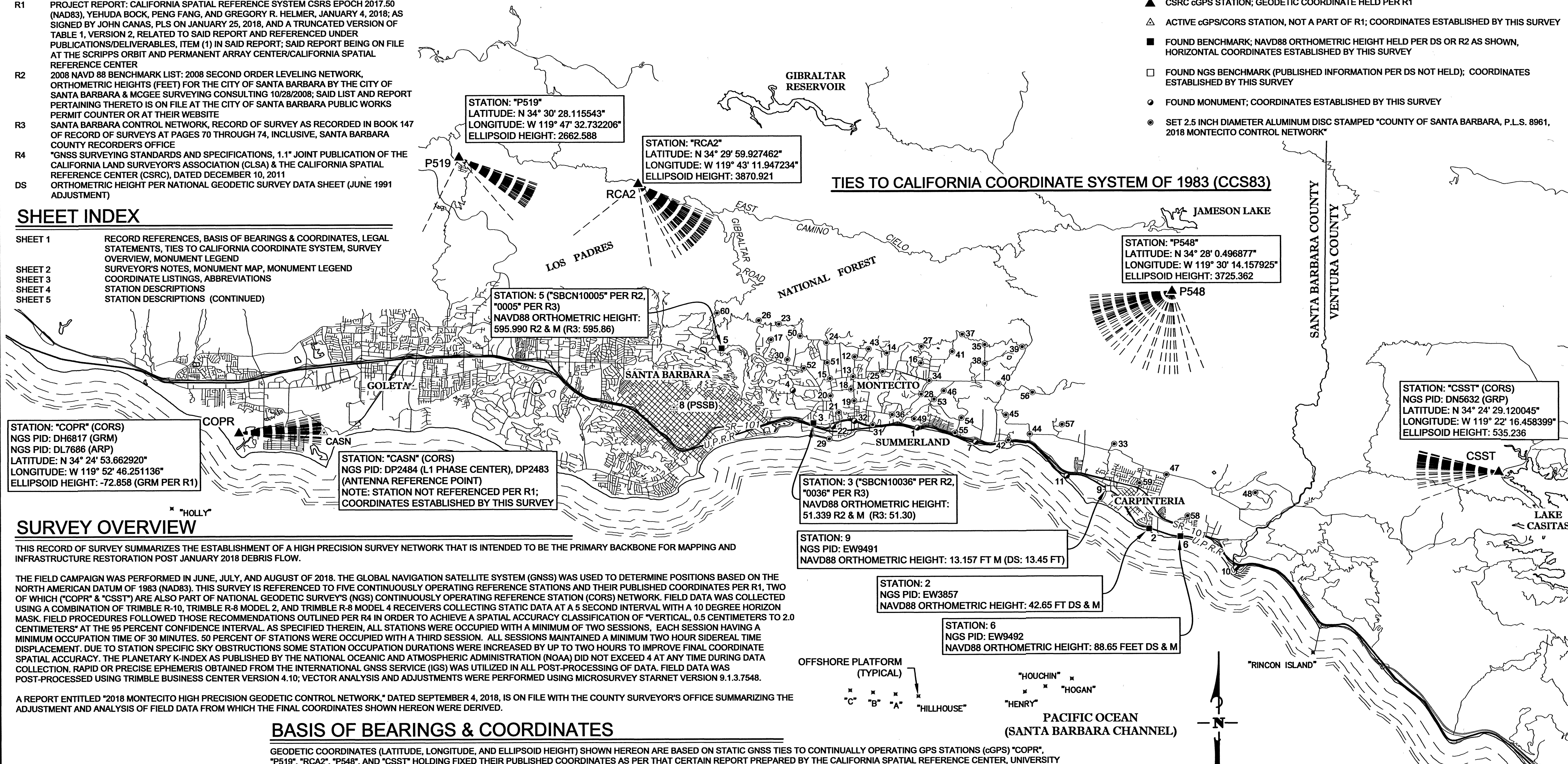
- R1 PROJECT REPORT: CALIFORNIA SPATIAL REFERENCE SYSTEM CSRS EPOCH 2017.50 (NAD83), YEHUDA BOCK, PENG FANG, AND GREGORY R. HELMER, JANUARY 4, 2018; AS SIGNED BY JOHN CANAS, PLS ON JANUARY 25, 2018, AND A TRUNCATED VERSION OF TABLE 1, VERSION 2, RELATED TO SAID REPORT AND REFERENCED UNDER PUBLICATIONS/DELIVERABLES, ITEM (1) IN SAID REPORT; SAID REPORT BEING ON FILE AT THE SCRIPPS ORBIT AND PERMANENT ARRAY CENTER/CALIFORNIA SPATIAL REFERENCE CENTER
- R2 2008 NAVD 88 BENCHMARK LIST: 2008 SECOND ORDER LEVELING NETWORK, ORTHOMETRIC HEIGHTS (FEET) FOR THE CITY OF SANTA BARBARA BY THE CITY OF SANTA BARBARA & MCGEE SURVEYING CONSULTING 10/28/2008; SAID LIST AND REPORT PERTAINING THERETO IS ON FILE AT THE CITY OF SANTA BARBARA PUBLIC WORKS PERMIT COUNTER OR AT THEIR WEBSITE
- R3 SANTA BARBARA CONTROL NETWORK, RECORD OF SURVEY AS RECORDED IN BOOK 147 OF RECORD OF SURVEYS AT PAGES 70 THROUGH 74, INCLUSIVE, SANTA BARBARA COUNTY RECORDER'S OFFICE
- R4 "GNSS SURVEYING STANDARDS AND SPECIFICATIONS, 1.1" JOINT PUBLICATION OF THE CALIFORNIA LAND SURVEYOR'S ASSOCIATION (CLSA) & THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC), DATED DECEMBER 10, 2011
- DS ORTHOMETRIC HEIGHT PER NATIONAL GEODETIC SURVEY DATA SHEET (JUNE 1991 ADJUSTMENT)

SHEET INDEX

SHEET 1	RECORD REFERENCES, BASIS OF BEARINGS & COORDINATES, LEGAL STATEMENTS, TIES TO CALIFORNIA COORDINATE SYSTEM, SURVEY OVERVIEW, MONUMENT LEGEND
SHEET 2	SURVEYOR'S NOTES, MONUMENT MAP, MONUMENT LEGEND
SHEET 3	COORDINATE LISTINGS, ABBREVIATIONS
SHEET 4	STATION DESCRIPTIONS
SHEET 5	STATION DESCRIPTIONS (CONTINUED)

MONUMENT LEGEND

- ▲ CSRC cGPS STATION; GEODETIC COORDINATE HELD PER R1
- △ ACTIVE cGPS/CORS STATION, NOT A PART OF R1; COORDINATES ESTABLISHED BY THIS SURVEY
- FOUND BENCHMARK; NAVD88 ORTHOMETRIC HEIGHT HELD PER DS OR R2 AS SHOWN, HORIZONTAL COORDINATES ESTABLISHED BY THIS SURVEY
- FOUND NGS BENCHMARK (PUBLISHED INFORMATION PER DS NOT HELD); COORDINATES ESTABLISHED BY THIS SURVEY
- FOUND MONUMENT; COORDINATES ESTABLISHED BY THIS SURVEY
- ◎ SET 2.5 INCH DIAMETER ALUMINUM DISC STAMPED "COUNTY OF SANTA BARBARA, P.L.S. 8961, 2018 MONTECITO CONTROL NETWORK"



SURVEY OVERVIEW

THIS RECORD OF SURVEY SUMMARIZES THE ESTABLISHMENT OF A HIGH PRECISION SURVEY NETWORK THAT IS INTENDED TO BE THE PRIMARY BACKBONE FOR MAPPING AND INFRASTRUCTURE RESTORATION POST JANUARY 2018 DEBRIS FLOW.

THE FIELD CAMPAIGN WAS PERFORMED IN JUNE, JULY, AND AUGUST OF 2018. THE GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) WAS USED TO DETERMINE POSITIONS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83). THIS SURVEY IS REFERENCED TO FIVE CONTINUOUSLY OPERATING REFERENCE STATIONS AND THEIR PUBLISHED COORDINATES PER R1, TWO OF WHICH ("COPR" & "CSST") ARE ALSO PART OF NATIONAL GEODETIC SURVEY'S (NGS) CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK. FIELD DATA WAS COLLECTED USING A COMBINATION OF TRIMBLE R-10, TRIMBLE R-8 MODEL 2, AND TRIMBLE R-8 MODEL 4 RECEIVERS COLLECTING STATIC DATA AT A 5 SECOND INTERVAL WITH A 10 DEGREE HORIZON MASK. FIELD PROCEDURES FOLLOWED THOSE RECOMMENDATIONS OUTLINED PER R4 IN ORDER TO ACHIEVE A SPATIAL ACCURACY CLASSIFICATION OF "VERTICAL, 0.5 CENTIMETERS TO 2.0 CENTIMETERS" AT THE 95 PERCENT CONFIDENCE INTERVAL. AS SPECIFIED THEREIN, ALL STATIONS WERE OCCUPIED WITH A MINIMUM OF TWO SESSIONS, EACH SESSION HAVING A MINIMUM OCCUPATION TIME OF 30 MINUTES. 50 PERCENT OF STATIONS WERE OCCUPIED WITH A THIRD SESSION. ALL SESSIONS MAINTAINED A MINIMUM TWO HOUR SIDEREAL TIME DISPLACEMENT. DUE TO STATION SPECIFIC SKY OBSTRUCTIONS SOME STATION OCCUPATION DURATIONS WERE INCREASED BY UP TO TWO HOURS TO IMPROVE FINAL COORDINATE SPATIAL ACCURACY. THE PLANETARY K-INDEX AS PUBLISHED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) DID NOT EXCEED 4 AT ANY TIME DURING DATA COLLECTION. RAPID OR PRECISE EPHEMERIS OBTAINED FROM THE INTERNATIONAL GNSS SERVICE (IGS) WAS UTILIZED IN ALL POST-PROCESSING OF DATA. FIELD DATA WAS POST-PROCESSED USING TRIMBLE BUSINESS CENTER VERSION 4.10; VECTOR ANALYSIS AND ADJUSTMENTS WERE PERFORMED USING MICROSURVEY STARNET VERSION 9.1.3.7548.

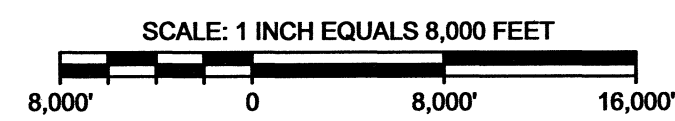
A REPORT ENTITLED "2018 MONTECITO HIGH PRECISION GEODETIC CONTROL NETWORK," DATED SEPTEMBER 4, 2018, IS ON FILE WITH THE COUNTY SURVEYOR'S OFFICE SUMMARIZING THE ADJUSTMENT AND ANALYSIS OF FIELD DATA FROM WHICH THE FINAL COORDINATES SHOWN HEREON WERE DERIVED.

BASIS OF BEARINGS & COORDINATES

GEODETIC COORDINATES (LATITUDE, LONGITUDE, AND ELLIPSOID HEIGHT) SHOWN HEREON ARE BASED ON STATIC GNSS TIES TO CONTINUALLY OPERATING GPS STATIONS (cGPS) "COPR", "P519", "RCA2", "P548", AND "CSST" HOLDING FIXED THEIR PUBLISHED COORDINATES AS PER THAT CERTAIN REPORT PREPARED BY THE CALIFORNIA SPATIAL REFERENCE CENTER, UNIVERSITY OF CALIFORNIA SAN DIEGO, TITLED "CALIFORNIA SPATIAL REFERENCE SYSTEM, CSRS EPOCH 2017.50 (NAD83)" DATED JANUARY 4, 2018 (R1). ELLIPSOID HEIGHTS SHOWN HEREON WERE CONVERTED FROM METERS TO U.S. SURVEY FEET BY MULTIPLYING THEIR PUBLISHED METRIC VALUES BY 3937/1200.

THE COORDINATES SHOWN HEREON ARE BASED HORIZONTALLY UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), NAD83(2011), ZONE 5, EPOCH 2017.50 (PER R1), IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY UPON FIELD-OBSERVED TIES TO SAID cGPS STATIONS AND VERTICALLY VIA FIELD-OBSERVED TIES TO EXISTING MONUMENTS KNOWN HEREIN AS STATIONS 2, 3, 5, & 6 VIA HOLDING THEIR PUBLISHED NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ORTHOMETRIC HEIGHTS AT SAID STATIONS PER R2 (STATIONS 3 & 5) AND PER DS (STATIONS 2 & 6) FIXED IN A FULLY CONSTRAINED VERTICAL (ORTHOMETRIC HEIGHT BASED) ONLY LEAST SQUARES ADJUSTMENT. SEE SURVEYOR'S NOTES (SHEET 2) AND "TIES TO CALIFORNIA COORDINATE SYSTEM" DIAGRAM (HEREON) FOR STATION ADDITIONAL CONTROL INFORMATION.

NOTE: ALL NON-GEODETIC COORDINATES (NORTHINGS, EASTINGS, ORTHOMETRIC HEIGHTS, ELLIPSOID HEIGHTS) SHOWN HEREON ARE IN TERMS OF THE U.S. SURVEY FOOT.



RECORDER'S STATEMENT

FILED THIS 16 DAY OF April, 2019 AT 1:32 PM IN BOOK 212 OF RECORD OF SURVEYS AT PAGE 48-52

AT THE REQUEST OF STANTEC
 JOSEPH E. HOLLAND
 COUNTY CLERK - RECORDER - ASSESSOR
 COUNTY OF SANTA BARBARA
 BY: Juan Gonzalez Tara Jayasinghe
 DEPUTY COUNTY RECORDER

COUNTY SURVEYOR'S STATEMENT

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8766 OF THE PROFESSIONAL LAND SURVEYOR'S ACT
 THIS 1st DAY OF April, 2019.
 BY: AJevremovic
 ALEKSANDAR JEVREMOVIC
 COUNTY SURVEYOR
 P.L.S. 8378



SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT AT THE REQUEST OF THE COUNTY OF SANTA BARBARA, PUBLIC WORKS DEPARTMENT, IN AUGUST OF 2018.
Daniel Bruce Eisengart 3/26/2019
 DANIEL BRUCE EISENGART
 DATE
 P.L.S. 8961



RECORD OF SURVEY FOR THE MONTECITO DISASTER AREA SURVEY CONTROL NETWORK

KNOWN HENCEFORTH AS THE:
2018 MONTECITO HIGH PRECISION GEODETIC CONTROL NETWORK

COUNTY OF SANTA BARBARA
 STATE OF CALIFORNIA
 SCALE: AS NOTED JUNE, JULY, & AUGUST 2018



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SHEET 1 OF 5 SHEETS P.N.2064167100

RS 7051