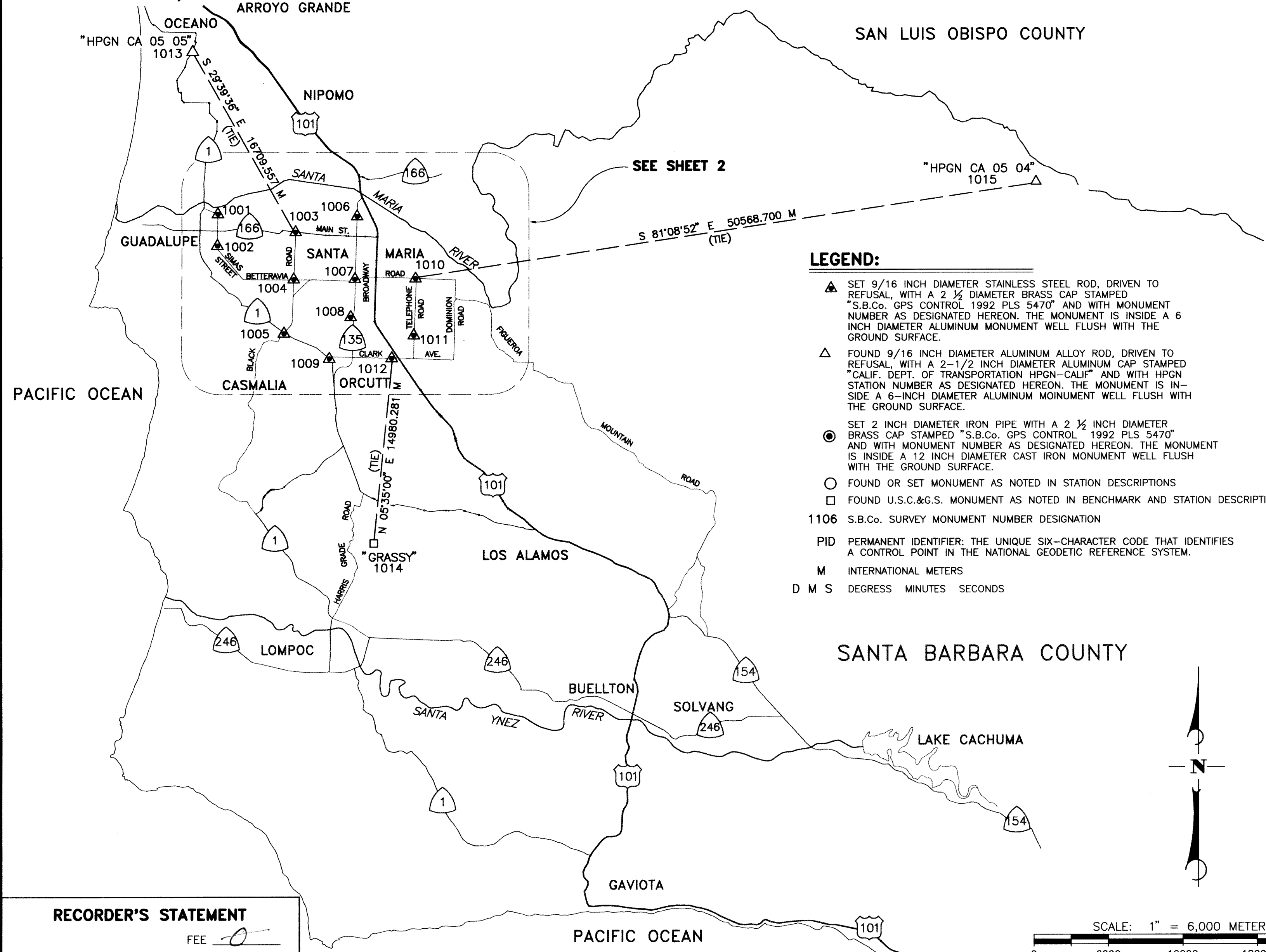


INDEX NUMBER 1202920/345510



STATEMENT OF PURPOSE:

THE MONUMENTS SHOWN ON THIS SURVEY, FOUND AND SET, ARE A HORIZONTAL AND VERTICAL CONTROL NETWORK ESTABLISHED IN THE SANTA MARIA VALLEY AS A BASIS FOR TOPOGRAPHIC MAPPING AND AS SANTA BARBARA COUNTY GPS CONTROL POINTS.

NOTES:

1. THE SURVEY WAS PERFORMED IN JULY, 1993 USING ASHTECH LD-12 DUAL-FREQUENCY GPS RECEIVERS OPERATING IN STATIC MODE, WITH AN AVERAGE 90-MINUTE OCCUPATION TIME. BASELINE PROCESSING WAS DONE WITH "ASHTECH GPPS" SOFTWARE VERSION 5.0, USING THE SINGLE FREQUENCY OBSERVABLES AND THE BROADCAST EPHEMERIS. NETWORK ADJUSTMENT WAS PERFORMED WITH FILLNET VERSION 3.0. VERTICAL CONTROL WAS PERFORMED USING A WILD NA-2000 ELECTRONIC LEVEL WITH SECTIONED FIBERGLASS RODS.
2. THE HORIZONTAL DATUM OF THE NETWORK IS NAD 83 (1992), AND NETWORK STATION POSITIONS HAVE BEEN DERIVED FROM TIES TO THREE ORDER "B" STATIONS OF THE CALIFORNIA HIGH-PRECISION GEODETIC NETWORK (HPGN): "GRASSY" (PID DZ1327), "HPGN CA 05 05" (PID FV2048) AND "HPGN CA 05 04" (PID FU3789).

THE BEARINGS SHOWN HEREON ARE REFERENCED TO CCS83, ZONE 5 GRID NORTH. THE POSITIONS OF THE THREE HPGN POINTS NOTED ABOVE HAVE BEEN USED AS THE BASIS OF BEARINGS FOR THIS MAP.

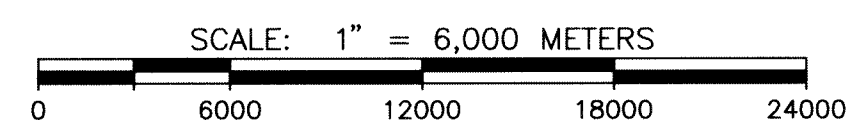
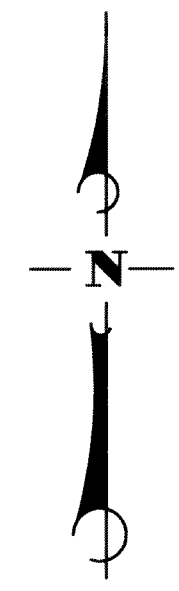
FOR NEW STATION POSITIONS ESTABLISHED BY THIS NETWORK, THE HORIZONTAL ACCURACIES ACHIEVED IN THIS SURVEY, AS LISTED ON SHEET 3, MEET OR EXCEED THE GUIDELINE ACCURACIES FOR ORDER "C" CLASS 1 (FIRST ORDER) GPS SURVEYS AS OUTLINED IN "GEOMETRIC GEODETIC ACCURACY STANDARDS AND SPECIFICATIONS FOR USING GPS RELATIVE POSITIONING TECHNIQUES", FEDERAL GEODETIC CONTROL COMMITTEE, AUGUST 1989.
3. THE VERTICAL DATUM OF THE NETWORK IS NAVD 88, AND NETWORK STATION ELEVATIONS HAVE BEEN DERIVED FROM DIFFERENTIAL LEVELING TIES TO EIGHT (8) FIRST-ORDER BENCHMARKS OF THE NATIONAL GEODETIC REFERENCE SYSTEM: "84 LA" (PID DZ0806), "H 533" (PID DZ0811), "J 533" (PID DZ0808), "M 1441" (PID DZ1791), "P 533" (PID DZ0803), "Q 533" (PID DZ0801), "Y 533" (PID DZ0579), AND "Z 533" (PID DZ0591).

ANALYSIS OF LOOP CLOSURES INDICATES VERTICAL ACCURACIES COMPARABLE TO SECOND ORDER, CLASS 1 ACCURACY STANDARDS AS OUTLINED IN "STANDARDS AND SPECIFICATIONS FOR GEODETIC CONTROL NETWORKS", FEDERAL GEODETIC CONTROL COMMITTEE, SEPTEMBER 1984.

ELEVATIONS OF ALL NEW STATIONS IN THE NETWORK, EXCEPT STATIONS 0270 THROUGH 0284 AND 1133 THROUGH 1138, ARE DERIVED FROM DIFFERENTIAL LEVELING. ELEVATIONS OF STATIONS 0270 THROUGH 0284 AND 1133 THROUGH 1138 WERE ESTIMATED BY FIXING THE DIFFERENTIAL LEVELING DERIVED ELEVATIONS OF POINTS 1001 THROUGH 1015 IN THE NETWORK ADJUSTMENT, AND USING THE GEOID90 GEOID MODEL TO DERIVE THE GEOID/ELLIPSOID SEPARATION.
4. STREETS SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY. MONUMENTS SET WERE NOT INTENDED TO BE ON STREET CENTERLINES. THE POSITIONS OF FOUND MONUMENTS RELATIVE TO STREET CENTERLINES HAVE NOT BEEN SURVEYED.
5. THE MONUMENT NUMBERS SHOWN HEREON WERE ASSIGNED BY THE COUNTY SURVEYOR'S OFFICE. MONUMENT NUMBERS 1001 THROUGH 1012 ARE THE NEW PRIMARY STATIONS OF THE NETWORK: STAINLESS STEEL RODS DRIVEN TO REFUSAL WITH CAP. MONUMENT NUMBERS 1013 THROUGH 1015 ARE THE NETWORK HORIZONTAL CONTROL: 2 ALUMINUM ALLOY RODS, AND ONE BRASS DISK IN A BOULDER. MONUMENT NUMBERS 1101 THROUGH 1138 ARE CONVENTIONAL TYPE MONUMENTS, SUCH AS 2 INCH IRON PIPES AND BRASS CAPS IN MONUMENT WELLS. MONUMENT NUMBERS 0270 THROUGH 0284 ARE 1/2-INCH DIAMETER PIPES WITH TAGS MARKED "PLS 5470"
6. A STATION RECOVERY SHEET FOR STATIONS 1001 THROUGH 1015 AND STATIONS 1101 THROUGH 1138 IS ON FILE AT THE SANTA BARBARA COUNTY SURVEYOR'S OFFICE. THE STATION RECOVERY SHEET INCLUDES THE POSITION, ELEVATION, AND DESCRIPTION FOR SUBJECT STATION.

LEGEND:

- ▲ SET 9/16 INCH DIAMETER STAINLESS STEEL ROD, DRIVEN TO REFUSAL, WITH A 2 1/2 INCH DIAMETER BRASS CAP STAMPED "S.B.Co. GPS CONTROL 1992 PLS 5470" AND WITH MONUMENT NUMBER AS DESIGNATED HEREON. THE MONUMENT IS INSIDE A 6 INCH DIAMETER ALUMINUM MONUMENT WELL FLUSH WITH THE GROUND SURFACE.
 - △ FOUND 9/16 INCH DIAMETER ALUMINUM ALLOY ROD, DRIVEN TO REFUSAL, WITH A 2-1/2 INCH DIAMETER ALUMINUM CAP STAMPED "CALIF. DEPT. OF TRANSPORTATION HPGN-CALIF" AND WITH HPGN STATION NUMBER AS DESIGNATED HEREON. THE MONUMENT IS INSIDE A 6-INCH DIAMETER ALUMINUM MONUMENT WELL FLUSH WITH THE GROUND SURFACE.
 - SET 2 INCH DIAMETER IRON PIPE WITH A 2 1/2 INCH DIAMETER BRASS CAP STAMPED "S.B.Co. GPS CONTROL 1992 PLS 5470" AND WITH MONUMENT NUMBER AS DESIGNATED HEREON. THE MONUMENT IS INSIDE A 12 INCH DIAMETER CAST IRON MONUMENT WELL FLUSH WITH THE GROUND SURFACE.
 - FOUND OR SET MONUMENT AS NOTED IN STATION DESCRIPTIONS
 - FOUND U.S.C.&G.S. MONUMENT AS NOTED IN BENCHMARK AND STATION DESCRIPTIONS
- 1106 S.B.Co. SURVEY MONUMENT NUMBER DESIGNATION
- PID PERMANENT IDENTIFIER: THE UNIQUE SIX-CHARACTER CODE THAT IDENTIFIES A CONTROL POINT IN THE NATIONAL GEODETIC REFERENCE SYSTEM.
- M INTERNATIONAL METERS
- D M S DEGREE MINUTES SECONDS



RECORDER'S STATEMENT

FEE 0

FILED THIS 5th DAY OF February, 1996,
AT 2:04 P.M. IN BOOK 147 OF
RECORD OF SURVEYS AT PAGE 57-61

AT THE REQUEST OF
PENFIELD & SMITH - ENGINEERS * SURVEYORS
KENNETH A. PETTIT
COUNTY CLERK-RECORDER-ASSESSOR
SANTA BARBARA COUNTY

BY: Wren Brokle
DEPUTY COUNTY RECORDER

COUNTY SURVEYOR'S STATEMENT

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8766 OF THE LAND SURVEYOR'S ACT

THIS 5th DAY OF FEBRUARY, 1996

EDMUND R. VILLA
COUNTY SURVEYOR

BY: Edmund R. Villa
COUNTY SURVEYOR

P.L.S. NO.: 6232 LICENSE EXPIRATION DATE: 3-31-98

SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE LAND SURVEYOR'S ACT AT THE REQUEST OF S.B. COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

IN JULY, 1993

MARK LLOYD
NO. 5470
EXPIRES 9-30-96

P.L.S. NO.: 5470 LICENSE EXPIRATION DATE: 9-30-96



RECORD OF SURVEY

OF A CONTROL NETWORK
ESTABLISHED FOR THE
SANTA MARIA VALLEY TOPOGRAPHIC MAPPING
AND GPS CONTROL PROJECT

SANTA BARBARA COUNTY
STATE OF CALIFORNIA
SCALE: 1" = 6,000 METERS JULY 1993

Penfield & Smith
ENGINEERS * SURVEYORS
111 E. VICTORIA ST. SANTA BARBARA
(805) 963-9532 CALIF. 93101
MAILING ADDRESS: P.O. BOX 98 (93102)

SHEET 1 OF 5 SHEETS W.O. 10358.02

1113 The station is a 2 inch diameter iron pipe with 1½ inch diameter brass cap marked "LS 3088". The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface at the intersection of Lolita Street and Thornburg Street. THOMAS BROS. REF. (1992 ED): 796 G-4 USGS QUAD: SANTA MARIA

1114 The station is a 2½ inch diameter iron pipe with 1½ inch diameter, cast iron monument well flush with the asphalt road surface in center of cul-de-sac at the end of Professional Parkway southerly of Silverado Avenue. THOMAS BROS. REF. (1992 ED): 796 G-6 USGS QUAD: SANTA MARIA

1115 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1115" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with ground surface within Highway 135 (Broadway) right-of-way, 22.5 feet easterly of the easterly edge of pavement (AC dike) of Highway 135 and 89 feet southerly of the southerly curb face of Waller Lane. THOMAS BROS. REF. (1992 ED): 796 H-7 USGS QUAD: SANTA MARIA

1116 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1116" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with ground surface 4 feet westerly of westerly edge of pavement of Foxenwood Lane approximately 400 feet southerly of Foster Road. THOMAS BROS. REF. (1992 ED): 816 G-3 USGS QUAD: SANTA MARIA

1117 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1117" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface at the intersection of the centerline of Foxenwood Drive with the westerly curb face of Foxenwood Lane. THOMAS BROS. REF. (1992 ED): 816 H-5 USGS QUAD: ORCUTT

1118 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1118" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface 4 feet southerly of the northerly edge of pavement of Rice Ranch Road approximately 500 feet westerly of the Highway 135 overpass bridge. The Orcutt Little League field is on the hill above the point. THOMAS BROS. REF. (1992 ED): 816 G-6 USGS QUAD: ORCUTT

1119 The station is a 1½ inch diameter iron pipe with brass plug marked "LS 3088". The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface at the intersection of Valerie Street and Gregory Street. THOMAS BROS. REF. (1992 ED): 777 A-6 USGS QUAD: SANTA MARIA

1120 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1120" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface 25 feet northerly of the centerline of Stowell Road and 15 feet easterly of the centerline of Nicholson Avenue. THOMAS BROS. REF. (1992 ED): 797 A-2 USGS QUAD: SANTA MARIA

1121 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1121" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface between the northerly edge of pavement and the traffic lane paint stripe of Betteravia Road approximately 0.65 miles easterly of Nicholson Avenue, opposite a sign marked "Santa Maria Berry Farms - 700 Ranch". There is a water truck filling station on the southerly side of the road. THOMAS BROS. REF. (1992 ED): 797 B-4 USGS QUAD: SANTA MARIA

1122 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1122" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface, 1 foot northeasterly of the southwesterly edge of pavement of the Nicholson Avenue/Prell Road intersection "bend". THOMAS BROS. REF. (1992 ED): 797 A-5 USGS QUAD: SANTA MARIA

1123 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1123" and center punched. The station is set in concrete flush with ground surface on a hilltop at a bearing of N 78° W, a distance of 100 feet from a large silver oil tank ("Bradley II K.D. tank") in the Unocal field south of Prell Road. The tank is the only one in the area and can be seen from Prell Road. THOMAS BROS. REF. (1992 ED): 797 A-7 USGS QUAD: SANTA MARIA

1124 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1124" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface at the intersection "bend" of Stubblefield Road and Bradley Road near the Orcutt Cemetery. THOMAS BROS. REF. (1992 ED): 817 A-7 USGS QUAD: ORCUTT

1125 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1125" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with ground surface, 2 feet southerly of the southerly edge of pavement of Stowell Road at the westerly side of the entrance into the "Owen T. Rice & Son, Inc. Carton Yard" approximately 2600 feet westerly of Philbric Road. THOMAS BROS. REF. (1992 ED): 797 E-2 USGS QUAD: SANTA MARIA

1126 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1126" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface at the intersection of the centerline of the entrance road to the Santa Maria Gun Club with the easterly edge of pavement of Telephone Road approximately 1 mile southerly of Prell Road. THOMAS BROS. REF. (1992 ED): 797 E-7 USGS QUAD: SANTA MARIA

1127 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1127" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface, 4 feet easterly of the westerly edge of pavement of Telephone Road across from 4626 Telephone Road approximately 150 feet northerly of Fallen Leaf Drive. THOMAS BROS. REF. (1992 ED): 817 E-4 USGS QUAD: ORCUTT

1128 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1128" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface at the intersection of the centerline of Frontage Road with the westerly edge of pavement of Telephone Road. THOMAS BROS. REF. (1992 ED): 817 E-7 USGS QUAD: ORCUTT

1129 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1129" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface at the intersection of the northeasterly edge of pavement of the Foxen Canyon Road "ninety-degree bend" with the centerline of an asphalt entrance road to a farm area, approximately 1.5 miles east of Philbric Rd. THOMAS BROS. REF. (1992 ED): 797 J-4 USGS QUAD: TWITCHELL DAM

1130 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1130" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface at the intersection of the northerly edge of pavement of an entrance road to a cultivated field with the easterly edge of pavement of Dominion Road approximately 2900 feet southerly from Foxen Canyon Road and across from an earthen retention pond. THOMAS BROS. REF. (1992 ED): 797 J-7 USGS QUAD: TWITCHELL DAM

1131 The station is a 2 inch diameter iron pipe with 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1131" and center punched. The station is in a standard 12 inch diameter, cast iron monument well flush with the asphalt road surface at the intersection of the centerline of an access road to Union Oil field with the westerly edge of pavement of Dominion Road approximately 1300 feet northerly from Orcutt Garey Road. THOMAS BROS. REF. (1992 ED): 817 J-5 USGS QUAD: TWITCHELL DAM

1132 The station is a 3 inch diameter brass cap marked "Santa Barbara Co. Survey Mon.". The station is 0.15 feet below the asphalt road surface at the intersection of Clark Avenue and Dominion Road. THOMAS BROS. REF. (1992 ED): 817 J-5 USGS QUAD: SISQUOC

1133 The station is a 3½ inch brass disk set in the top of a concrete river inlet structure on the southerly Santa Maria River levee at the easterly end of a grouted rock spillway, approx. 500 feet easterly of the SPRR tracks at levee station 303+55. The station is a United States Army Corps of Engineers brass disk stamped "2 SM-110 1971 LA Dist." THOMAS BROS. REF. (1992 ED): 775 B-4 USGS QUAD: GUADALUPE

1134 The station is a 3½ inch brass disk set in the top northeast corner of a concrete river inlet structure on the southerly Santa Maria River levee, approx. 150 feet easterly of Bonita School Road at levee station 467+25. The station is a United States Army Corps of Engineers brass disk stamped "2 SM-109 1971 LA Dist." THOMAS BROS. REF. (1992 ED): 775 H-3 USGS QUAD: GUADALUPE

1135 The station is a 3½ inch brass disk set in the top of a triple concrete river inlet structure on the southerly Santa Maria River levee, approx. 2900 feet westerly of the northerly prolongation of Blosser Road at levee station 619+65. The station is a United States Army Corps of Engineers brass disk stamped "2 SM-107 1971 LA Dist." THOMAS BROS. REF. (1992 ED): 776 E-2 USGS QUAD: SANTA MARIA

1136 The station is a 3½ inch brass disk set in the top of a triple concrete river inlet structure on the southerly Santa Maria River levee, approx. 2500 feet southeasterly of Highway 101 along the levee at levee station 733+15. The station is a United States Army Corps of Engineers brass disk stamped "2 SM-103 1971 LA Dist." THOMAS BROS. REF. (1992 ED): 776 J-3 USGS QUAD: SANTA MARIA

1137 The station is a 3½ inch brass disk set in the top of grouted rock slope protector on the southwesterly Santa Maria River levee, approx. 100 feet southeasterly of Suey Road (Bull Canyon Road) at levee station 819+95. The station is a United States Army Corps of Engineers brass disk stamped "2 SM-22 1971 LA Dist." THOMAS BROS. REF. (1992 ED): 777 B-5 USGS QUAD: SANTA MARIA

1138 The station is a 2½ inch diameter brass cap stamped "S.B. Co. GPS Control 1992 PLS 5470 STA. 1132" and center punched, set in the top of grouted rock slope protector on the southwesterly Santa Maria River levee, approx. 16405 feet southeasterly of SB County Station Number 1137 along the levee, at levee station 984+00.09. THOMAS BROS. REF. (1992 ED): 797 G-2 USGS QUAD: TWITCHELL DAM

STATION DESCRIPTIONS

RECORD OF SURVEY

OF A CONTROL NETWORK
ESTABLISHED FOR THE
SANTA MARIA VALLEY TOPOGRAPHIC MAPPING
AND GPS CONTROL PROJECT

SANTA BARBARA COUNTY
STATE OF CALIFORNIA
SCALE: N/A JULY, 1993

Penfield & Smith
ENGINEERS • SURVEYORS

111 E. VICTORIA ST. SANTA BARBARA
(805) 963-9532 CALIF. 93101
MAILING ADDRESS: P.O. BOX 98 (93102)

SHEET 5 OF 5 SHEETS W.O. 10358.02