RECORD OF SURVEY

FOR
CITY OF LODI
G.P.S. CONTROL NETWORK

LYING WITHIN THE FOLLOWING SECTIONS:
SECTIONS 28, 29, & 32 THRU 34, T.4N., R.6E.
SECTION 31, T.4N., R.7E.
SECTIONS 1 THRU 6, 9, 11 THRU 14, 16, 17, & 20 THRU 29, T.3N., R.6E.
SECTIONS 5, 8, 17, 19, 20, 29 & 30, T.3N., R.6E., M.D.B.&M.
SAN JOAQUIN COUNTY, CALIFORNIA

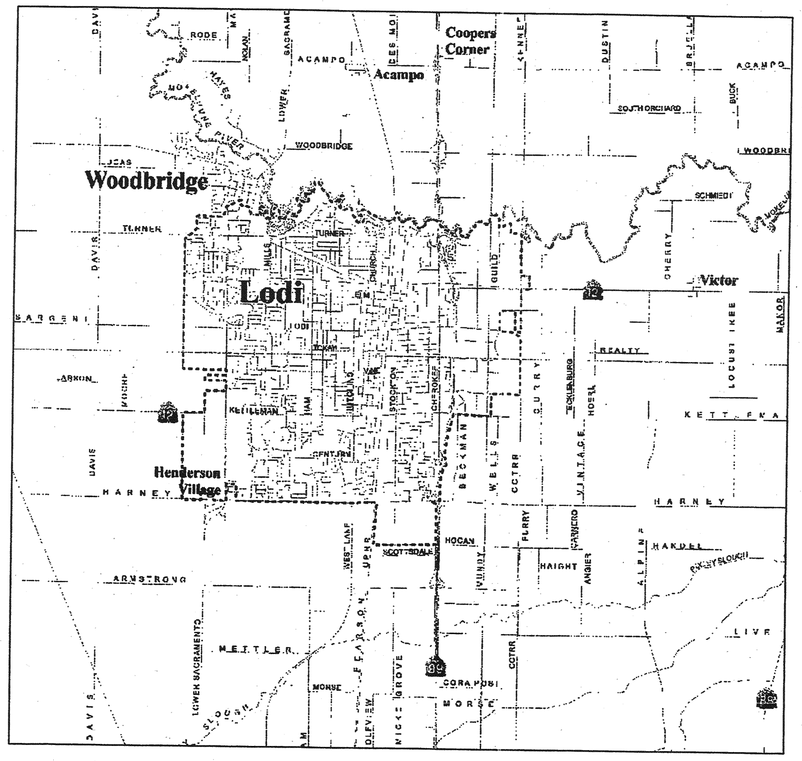
PREMIER
ENGINEERING & SURVEYING, INC.
136 S. CENTER STREET, TURLOCK, CA 95380
MARCH, 2009

NOTES:

1. THE COORDINATES SHOWN ON THIS MAP ARE BASED ON THE 2007 NATIONAL READJUSTMENT OF THE NORTH AMERICAN DATUM OF 1983(NAD83).
2. THIS RECORD OF SURVEY IS INTENDED TO BE A MONUMENTATION MAP ONLY. IT DOES NOT DEFINE PROPERTY BOUNDARY LOCATIONS. THE SOLE PURPOSE IS TO ESTABLISH A PRIMARY HORIZONTAL CONTROL NETWORK FOR THE CITY OF LODI, CONSTRAINED TO THE HIGH ACCURACY REFERENCE NETWORK (HARN) USING GLOBAL POSITIONING SURVEY TECHNIQUES, AND TO SHOW THE LOCATION AND DESCRIPTION OF MONUMENTS FOUND OR SET, ALONG WITH THE NAD83(2007) STATE PLANE COORDINATES DETERMINED FOR THE MONUMENTS.
3. A COMPLETE REPORT OF THE GPS SURVEY IS AVAILABLE FOR REVIEW AT THE CITY OF LODI PUBLIC WORKS AND SAN JOAQUIN COUNTY SURVEYOR'S OFFICE.
4. THIS PROJECT CONSISTS OF 5 HELD AND FIXED HIGH ACCURACY REFERENCE NETWORK STATIONS HELD FIXED AND 24 SECONDARY MONUMENTS USED AS THE CITY OF LODI HORIZONTAL CONTROL NETWORK.
5. G.P.S. OBSERVATIONS WERE PERFORMED BY PREMIER ENGINEERING & SURVEYING, INC. ON FEBRUARY 11-13 AND MARCH 12, 2009. GPS RECEIVERS USED IN THIS SURVEY WERE TWO TRIMBLE R8 AND TWO TRIMBLE 5800 DUAL FREQUENCY RECEIVERS WITH TSC2 DATA COLLECTORS. TRIPODS WITH TRIBRACHS WERE USED FOR RECEIVER OCCUPATIONS. ALL EQUIPMENT WAS ADJUSTED AND CALIBRATED PRIOR TO THE SURVEY.
6. PHASE AND CODE ON THE L1 & L2 FREQUENCIES WERE COLLECTED EVERY 10 SECONDS FROM 5-10 SATELLITES ABOVE 10° WITH GDOP (GEOMETRIC DILUTION OF PRECISION) GENERALLY 1-6. THE LENGTH OF OBSEVATION TIMES WAS 20-30 MINUTES WITH EXTENDED OCCUPATIONS ON THE PRIMARY NETWORK CONTROL POINTS.
7. A TOTAL OF 29 POINTS WERE CONNECTED WITH 199 MEASURED VECTORS IN THIS SURVEY. DATA WAS PROCESSED USING TRIMBLE GEOMATICS OFFICE SOFTWARE V1.61. THE LEAST SQUARES ADJUSTMENT WAS PERFORMED USING STARNET-PRO V6. BASELINES WERE PROCESSED WITH A PRECISE EPHEMERIS AT A CUTOFF VERTICAL ANGLE OF 15° ABOVE THE HORIZON.
8. ANALYSIS OF THE LEAST SQUARES ADJUSTMENT CONFIRMED THAT THE NETWORK MEETS OR EXCEEDS FIRST ORDER SPECIFICATIONS THAT THE NETWORK FITS WELL AND IS CONSISTENT. THE AVERAGE HORIZONTAL PRECISION ON ALL OBSERVED BASELINES WAS 1.3 PPM OR 1:782,500. THE AVERAGE STANDARD ERROR, AT 95% CONFIDENCE, WAS .006m (0.02 ft) IN LATITUDE AND 0.004m (0.01ft) IN LONGITUDE. THE AVERAGE GRID LENGTH WAS 5500m (18,000 ft).

BASIS OF BEARINGS:

HORIZONTAL POSITIONS AND ELLIPSOID HEIGHTS ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83), 2007.00 EPOCH ADJUSTMENT OF THE HIGH PRECISION GEODETIC NETWORK (HPGN). (SEE SHEET 5 FOR STATIONS HELD FIXED)



VICINITY MAP
NOT TO SCALE

Doc #: 2009-106461
Thu Jul 16 15:49:07 PDT 2009
Page: 1 of 5 Fee: $20.00
Kenneth W Blakemore
San Joaquin County Recorders
Paid By: SHOUN ON DOCUMENT

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 SURVEYORS' ACT AT THE REQUEST OF THE CITY OF LODI IN FEBRUARY 2009.

DATED THIS 10th DAY OF JULY, 2009.

KENT A. HYSELL P.L.S. 6953
LICENSE EXPIRATION DATE: 9/30/09

LICENSED LAND SURVEYOR KENT A. HYSELL No. 6953 EXP. 9-30-09 STATE OF CALIFORNIA

COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8766 OF THE PROFESSIONAL LAND SURVEYORS' ACT

THIS 16th DAY OF JULY, 2009.

For THOMAS R. FLINN, R.C.E. 23341
COUNTY SURVEYOR
REGISTRATION EXPIRATION DATE: 12-31-09

REGISTERED PROFESSIONAL ENGINEER THOMAS M. GAU No. 26994 EXP. 3-31-11 CIVIL STATE OF CALIFORNIA

RECORDER'S STATEMENT:

FILED THIS 16 DAY OF July, 2009, AT 4:49 p.m.
IN BOOK 37 OF SURVEYS, AT PAGE 50.
AT THE REQUEST OF PREMIER ENGINEERING & SURVEYING, INC.
FEE $ 20.00

KENNETH W. BLAKEMORE
ASSESSOR-RECORDER-COUNTY CLERK
BY: Christina Moreno
ASSISTANT/DEPUTY RECORDER

D.D. SHEET NOS. 14, 15 & 16

37-50A

RECORD OF SURVEY

FOR

CITY OF LODI
G.P.S. CONTROL NETWORK

LYING WITHIN THE FOLLOWING SECTIONS:
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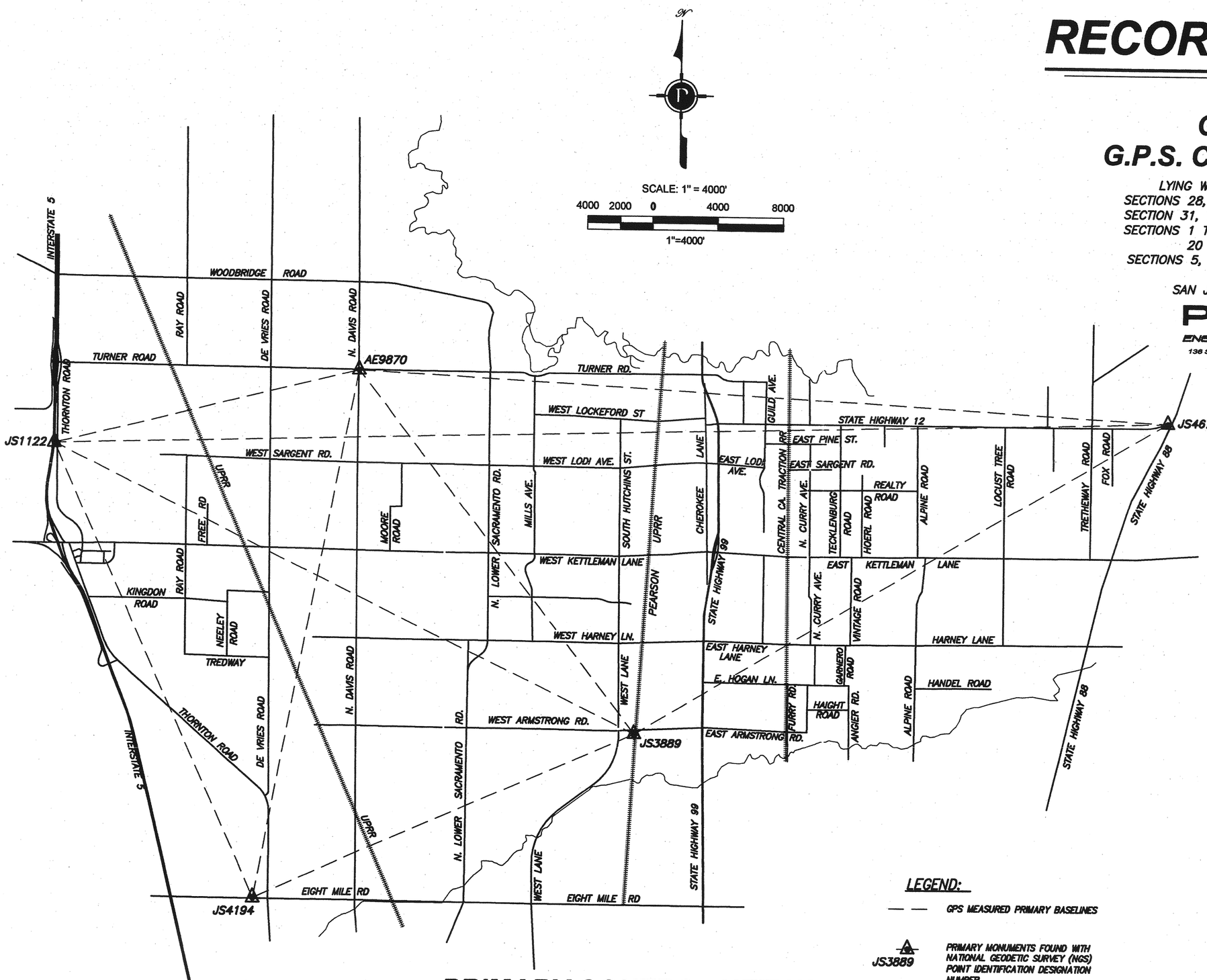
SAN JOAQUIN COUNTY, CALIFORNIA

PREMIER
ENGINEERING & SURVEYING, INC.
136 S. CENTER STREET, TURLOCK, CA 95380

MARCH, 2009



PRIMARY CONTROL NETWORK

D.D. SHEET NOS. 14, 15 & 16

37-50A P-1063-2

37-50B

RECORD OF SURVEY

FOR
CITY OF LODI
G.P.S. CONTROL NETWORK

LYING WITHIN THE FOLLOWING SECTIONS:
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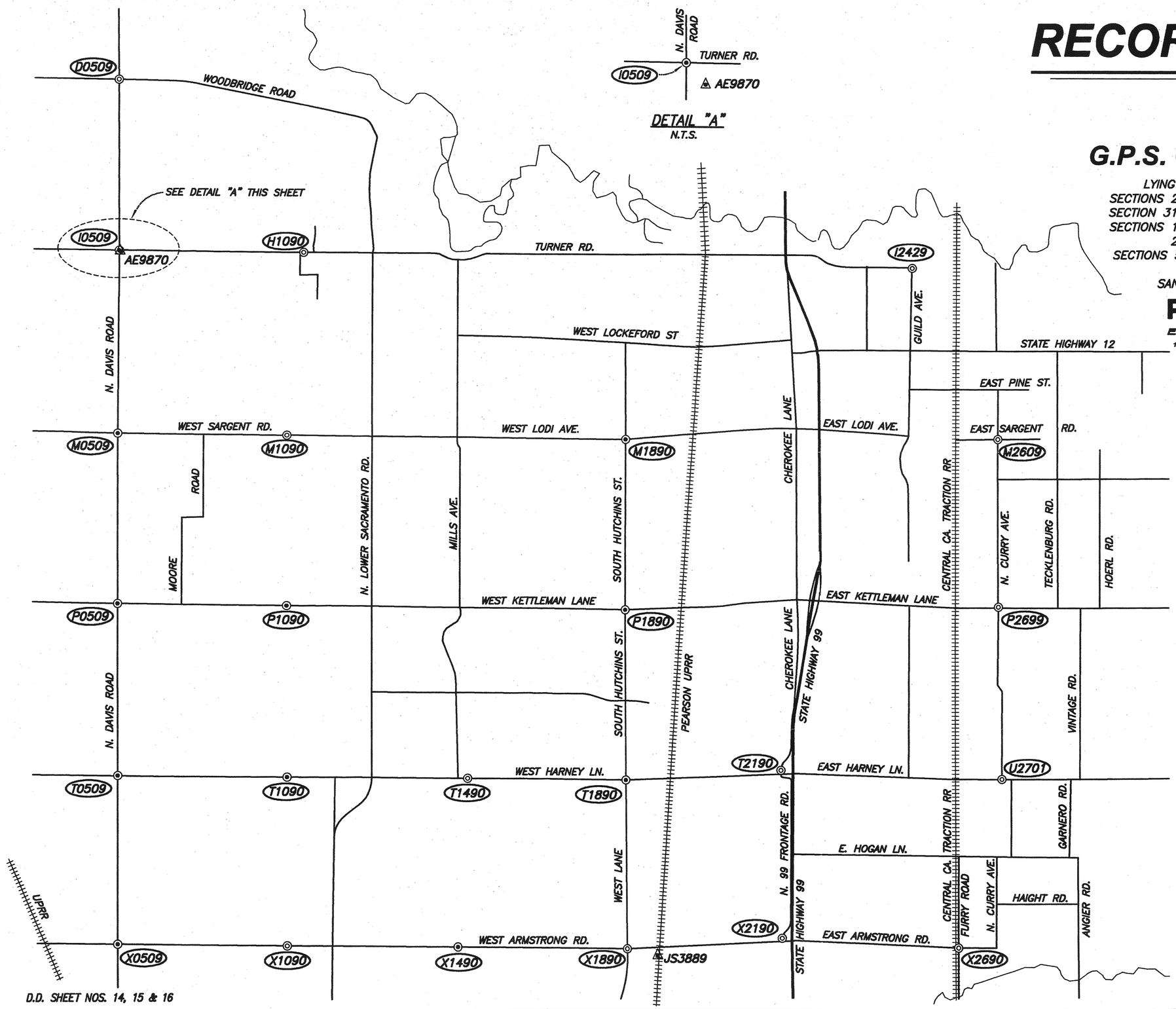

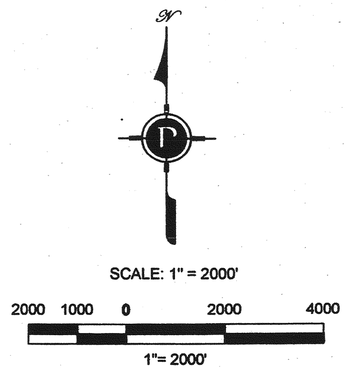

CITY OF LODI GPS NETWORK GRID POINTS

LEGEND:

- (U2701) CITY OF LODI GRID DESIGNATION (TYPICAL)
- ▲ JS3889 PRIMARY MONUMENTS FOUND WITH NATIONAL GEODETIC SURVEY (NGS) PERMANENT IDENTIFIER.
- —◎— SET 2-1/2 INCH BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953", WITH THE GRID DESIGNATION NUMBER, IN CONCRETE PILLAR IN CAST IRON MONUMENT WELL UNLESS NOTED OTHERWISE.
- —◎— FOUND MONUMENT IN MONUMENT WELL AS NOTED.

37-50B P-1063-3

37-50C

CITY OF LODI - G.P.S. NETWORK

FULLY CONSTRAINED COORDINATE RESULTS
DATUM: HORIZONTAL = NAD83(2007)
ZONE: 0403 CALIFORNIA SPCS ZONE 3
STATE PLANE VALUES IN METERS(m) AND U.S. SURVEY FEET(ft)

NAME	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT(m)	NORTHING(m)	EASTING(m)	NORTHING(ft)	EASTING(ft)	CONVERGENCE ANGLE	GRID SCALE	ELEVATION SCALE	COMBINED SCALE
D0509	38°09'36.600562"N	121°20'04.886440"W	-20.185	684576.210	1926851.092	2245980.449	6321677.291	-00°30'39.69"	0.99995461	1.00000317	0.99995778
H1090	38°08'44.142639"N	121°18'51.497738"W	-18.586	682943.163	1928623.498	2240622.695	6327492.259	-00°29'54.76"	0.99995283	1.00000292	0.99995574
I0509	38°08'44.312837"N	121°20'03.816328"W	-20.661	682963.921	1926862.768	2240690.797	6321715.598	-00°30'39.03"	0.99995283	1.00000324	0.99995608
I2429	38°08'41.252004"N	121°14'53.059931"W	-12.468	682805.582	1934428.172	2240171.314	6346536.428	-00°27'28.78"	0.99995273	1.00000198	0.99995469
M0509	38°07'48.543181"N	121°20'03.356112"W	-21.537	681244.422	1926858.645	2235049.407	6321702.071	-00°30'38.75"	0.99995101	1.00000338	0.99995439
M1090	38°07'48.363168"N	121°18'57.070246"W	-19.848	681224.640	1928472.829	2234984.507	6326997.939	-00°29'58.17"	0.99995101	1.00000311	0.99995412
M1890	38°07'47.995544"N	121°16'44.678931"W	-16.785	681185.832	1931696.815	2234857.184	6337575.302	-00°28'37.11"	0.99995099	1.00000263	0.99995363
M2609	38°07'49.221014"N	121°14'18.798986"W	-11.648	681194.808	1935249.696	2234886.633	6349231.710	-00°27'07.80"	0.99995103	1.00000183	0.99995286
P0509	38°06'56.245862"N	121°20'02.618813"W	-22.494	679631.923	1926862.230	2229759.066	6321713.833	-00°30'38.30"	0.99994937	1.00000353	0.99995290
P1090	38°06'56.066783"N	121°18'56.419554"W	-22.049	679612.189	1928474.622	2229694.324	6327003.822	-00°29'57.77"	0.99994936	1.00000346	0.99995282
P1890	38°06'55.514751"N	121°16'44.216159"W	-17.639	679567.735	1931694.618	2229548.476	6337568.091	-00°28'36.83"	0.99994935	1.00000277	0.99995211
P2699	38°06'57.273528"N	121°14'17.964997"W	-12.968	679593.080	1935257.370	2229631.631	6349256.888	-00°27'07.29"	0.99994940	1.00000203	0.99995143
T0509	38°06'03.980796"N	121°20'01.907524"W	-23.941	678020.430	1926865.198	2224472.028	6321723.569	-00°30'37.86"	0.99994779	1.00000376	0.99995155
T1090	38°06'03.840881"N	121°18'55.638122"W	-22.888	678001.890	1928479.625	2224411.200	6327020.237	-00°29'57.29"	0.99994779	1.00000359	0.99995138
T1490	38°06'03.726092"N	121°17'45.144560"W	-20.700	677983.566	1930196.974	2224351.082	6332654.572	-00°29'14.13"	0.99994778	1.00000325	0.99995103
T1890	38°06'03.538470"N	121°16'43.491737"W	-18.309	677965.145	1931698.928	2224290.647	6337582.233	-00°28'36.39"	0.99994778	1.00000287	0.99995065
T2190	38°06'06.884425"N	121°15'42.744331"W	-16.290	678056.120	1933179.715	2224589.120	6342440.449	-00°27'59.20"	0.99994788	1.00000256	0.99995043
U2701	38°06'04.556647"N	121°14'16.204021"W	-14.294	677967.461	1935287.449	2224298.243	6349355.572	-00°27'06.21"	0.99994781	1.00000224	0.99995005
X0509	38°05'11.697083"N	121°20'01.350328"W	-24.826	676408.403	1926864.412	2219183.235	6321720.991	-00°30'37.52"	0.99994628	1.00000390	0.99995017
X1090	38°05'11.523980"N	121°18'55.001904"W	-23.336	676388.822	1928481.073	2219118.995	6327024.988	-00°29'56.90"	0.99994627	1.00000366	0.99994993
X1490	38°05'11.435842"N	121°17'48.516972"W	-20.877	676372.152	1930101.088	2219064.300	6332339.987	-00°29'16.20"	0.99994627	1.00000328	0.99994955
X1890	38°05'11.248900"N	121°16'42.590267"W	-18.906	676352.867	1931707.479	2219001.032	6337610.288	-00°28'35.84"	0.99994626	1.00000297	0.99994923
X2190	38°05'14.806276"N	121°15'41.883230"W	-17.487	676450.369	1933187.626	2219320.920	6342466.404	-00°27'58.67"	0.99994637	1.00000274	0.99994911
X2690	38°05'12.174483"N	121°14'32.840391"W	-16.094	676355.711	1934869.336	2219010.362	6347983.814	-00°27'16.40"	0.99994629	1.00000253	0.99994882

BASIS OF BEARINGS:

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NAME	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT(m)	NORTHING(m)	EASTING(m)	NORTHING(ft)	EASTING(ft)	CONVERGENCE ANGLE	GRID SCALE	ELEVATION SCALE	COMBINED SCALE
AE9870	38°08'44.051290"N	121°20'03.506910"W	-20.643	682955.790	1926870.230	2240664.121	6321740.079	-00°30'38.84"	0.99995282	1.00000324	0.99995606
JS1122	38°07'57.211750"N	121°23'55.352320"W	-27.881	681563.986	1921211.527	2236097.843	6303174.819	-00°33'00.79"	0.99995129	1.00000437	0.99995566
JS3889	38°05'09.262920"N	121°16'30.651470"W	-19.054	676289.224	1931997.886	2218792.230	6338563.063	-00°28'28.53"	0.99994621	1.00000299	0.99994920
JS4194	38°03'28.222140"N	121°21'18.130230"W	-28.003	673235.177	1924964.377	2208772.410	6315487.294	-00°31'24.53"	0.99994347	1.00000439	0.99994787
JS4671	38°08'20.451690"N	121°09'46.421760"W	-3.602	682108.008	1941889.660	2237882.688	6371016.327	-00°24'21.04"	0.99995204	1.00000057	0.99995261

RECORD OF SURVEY

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CITY OF LODI
G.P.S. CONTROL NETWORK

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SAN JOAQUIN COUNTY, CALIFORNIA

PREMIER
ENGINEERING & SURVEYING, INC.
136 S. CENTER STREET, TURLOCK, CA 95380
MARCH, 2009

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D.D. SHEET NOS. 14, 15 & 16

37-50 C P-1063-4

37-50D

RECORD OF SURVEY

FOR

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G.P.S. CONTROL NETWORK

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136 S. CENTER STREET, TURLOCK, CA 95380
MARCH, 2009

CITY OF LODI - G.P.S. NETWORK

MONUMENT DESCRIPTIONS

NAME	DESCRIPTION
D0509	SET 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 D0509" IN CONCRETE PILLAR IN MONUMENT WELL AT THE INTERSECTION OF WOODBRIDGE RD. & N. DAVIS RD.
H1090	SET 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 H1090" IN CONCRETE PILLAR IN MONUMENT WELL ON THE CENTERLINE OF TURNER RD, 150'+/- E. OF GOLDEN OAK DR.
I0509	FD. BOLT & WASHER IN MONUMENT WELL AT THE INTERSECTION OF N. DAVIS RD. AND TURNER RD.
I2429	FD. 5/8" REBAR TAGGED RCE 19638 AT THE INTERSECTION OF TURNER RD. & GUILD AVE., REPLACED WITH 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 I2429" IN CONCRETE PILLAR IN MONUMENT WELL
M0509	FD. BOLT & WASHER STAMPED "RCE 21258", IN MONUMENT WELL AT THE INTERSECTION OF W. SARGENT RD. & N. DAVIS RD.
M1090	FD. SPIKE IN MONUMENT WELL, REPLACED WITH 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 M1090" IN CONCRETE PILLAR IN MONUMENT WELL, ON THE CENTERLINE OF W. SARGENT RD., 5296'+/- EAST OF N. DAVIS RD.
M1890	FD. 3/4" BOLT IN CONCRETE IN MONUMENT WELL AT THE INTERSECTION OF W. LODI AVE. & S. HUTCHINS ST.
M2609	FD. 3/4" IRON PIPE NO TAG, REPLACED WITH 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 M2609" IN CONCRETE PILLAR IN MONUMENT WELL AT THE INTERSECTION OF E. SARGENT RD. AND N. CURRY AVE.
P0509	FD. BOLT & WASHER IN MONUMENT WELL AT THE INTERSECTION OF W. KETTLEMAN LN. & N. DAVIS RD.
P1090	FD. 3-1/2" BRASS DISK STAMPED "DIVISION OF HIGHWAYS T.3N., R.6E., SECTIONS 9/10/15/16", IN CONCRETE IN MONUMENT WELL 5'+/- NORTH OF THE NORTH EDGE OF PAVEMENT OF W. KETTLEMAN LN.
P1890	FD. 2" BRASS DISK IN CONCRETE STAMPED "CALIFORNIA DIVISION OF HIGHWAYS", IN MONUMENT WELL AT THE INTERSECTION OF W. KETTLEMAN LN. & S. HUTCHINS ST.
P2699	SET 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 P2699" IN CONCRETE PILLAR IN MONUMENT WELL ON THE NORTH SIDE OF THE INTERSECTION OF E. KETTLEMAN LN. & N.CURRY RD.
T0509	FD. 2" BRASS DISK STAMPED "SJCO LS 2239" IN CONCRETE IN MONUMENT WELL AT THE INTERSECTION OF W. HARNEY LN. & N. DAVIS RD.
T1090	FD. BOLT & WASHER IN MONUMENT WELL ON THE CENTERLINE OF WEST HARNEY LANE, 5297'+/- EAST OF N. DAVIS RD.
T1490	SET 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 T1490" IN CONCRETE PILLAR IN MONUMENT WELL ON W. HARNEY LN, 350'+/- E. OF MILLS AVE.
T1890	FD. 5/8" REBAR WITH 2" BRASS DISK STAMPED "LS 2239 SJCO" IN MONUMENT WELL AT THE INTERSECTION OF W. HARNEY LN. & SOUTH HUTCHINS ST.
T2190	SET 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 T2190" IN CONCRETE PILLAR IN MONUMENT WELL ON THE WEST SIDE OF CHEROKEE LN., 100'+/- N. OF W. HARNEY RD.
U2701	FD. BOLT & WASHER AT THE INTERSECTION OF E. HARNEY LN. & N. CURRY RD., REPLACED WITH 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 U2701" IN CONCRETE PILLAR IN MONUMENT WELL.
X0509	FD. BOLT & WASHER IN MONUMENT WELL AT THE INTERSECTION OF W. ARMSTRONG RD. & N. DAVIS RD.
X1090	FD. BOLT & WASHER, RESET WITH 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 X1090" IN CONCRETE PILLAR IN MONUMENT WELL ON THE CENTERLINE OF W. ARMSTRONG RD., 5304'+/- EAST OF N. DAVIS RD.
X1490	FD. BOLT & WASHER IN MONUMENT WELL ON THE CENTERLINE OF W. ARMSTRONG RD., 5271'+/- WEST OF WEST LANE.
X1890	FD. 2" IRON PIPE IN MONUMENT WELL AT THE INTERSECTION OF W. ARMSTRONG RD. & WEST LANE, REPLACED WITH 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 X1890" IN CONCRETE PILLAR IN MONUMENT WELL.
X2190	SET 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 X2190" IN CONCRETE PILLAR IN MONUMENT WELL ON THE WEST SIDE OF N. 99 FRONTAGE ROAD, 130'+/- N. OF W. ARMSTRONG RD.
X2690	SET 2-1/2" BRASS DISK STAMPED "CITY OF LODI GPS SURVEY MONUMENT LS 6953 X2690" IN CONCRETE PILLAR IN MONUMENT WELL AT THE INTERSECTION OF E. ARMSTRONG RD. & FURRY RD..

PRIMARY MONUMENTS

NAME	DESCRIPTION
AE9870	FD. 2" ALUMINUM CAP STAMPED "VALVE 1997" IN THE SOUTHWEST CORNER OF P.G.&E. VAULT BOX AT THE SOUTHEAST CORNER OF THE INTERSECTION OF TURNER RD. & N. DAVIS RD.
JS1122	FD. BRASS CAP STAMPED "C 464 1951" IN CONCRETE 39 FT.+/- WEST OF THE CENTERLINE OF THORTON RD., 0.93 MILES SOUTH OF TURNER RD. INTERCHANGE, 1.17 MILES NORTH OF STATE HIGHWAY 12 INTERCHANGE.
JS3889	FD. 5/8" ROD IN MONUMENT WELL 240 FT.+/- SOUTH OF ARMSTRONG RD.. 42 FT.+/- WEST OF THE WEST RAIL OF THE S.P.R.R., 24.5 FT.+/- EAST OF THE CENTERLINE PEARSON RD.
JS4194	FD. 3-1/2" BRASS DISK STAMPED "HARTE 1959 1974" IN CONCRETE MONUMENT ON THE NORTH SIDE OF EIGHT MILE RD., 0.15 MILES+/- WEST OF THORTON RD.
JS4671	FD. 2-1/2" ALUMINUM DISK STAMPED "HPGN-CALIF. STA. 10-10 1991" IN CONCRETE MONUMENT ON THE NORTH SIDE OF HIGHWAY 12, 30 FT+/- WEST OF BASIN CHAIN LINK FENCE, WEST OF THE INTERSECTION OF HWY. 12 & HWY. 88

NOTES:

1. SEE THE N.G.S. DATASHEETS FOR FURTHER DESCRIPTIONS FOR THE PRIMARY CONTROL MONUMENTS.

D.D. SHEET NOS. 14, 15 & 16

37-50D P-1063-5