## RECLAMATION
Managing Water in the West

### SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>City: Firebaugh</td>
<td>T: 12S</td>
</tr>
<tr>
<td>County: Fresno</td>
<td>R: 14E</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

### Final Adjusted Coordinates

- Latitude (DMS): N 36° 53' 51.2351"
- Longitude (DMS): W 120° 27' 54.26739"

- Projection: State Plane Zone: California 4
- Northing (Grid): 2213141.13 usft.
- Easting (Grid): 6133281.36 usft.

- Ortho Height: 141.80 usft.

### Survey Mark Description


NGS PID: GU0753

### Go To Directions

Starting at the intersection of CA-33 and Clyde Fannon Rd in Firebaugh, CA

1. Head northeast on Clyde Fannon Rd for 1.1 mi
2. Turn right, head east on W Behymer Ave for 0.3 mi
3. Turn left, head north on canal levee for 1.4 mi

*Point will be to the east of the canal levee and west of a canal

### Entered By: W. Harrison
### Checked By: G. Davis

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Aerial View

MP220 – Surveys and Mapping Branch
2800 Cottage Way, W2922, Sacramento, CA 95825-1886 916.978.5306 Fax 916.978.5345 www.USBR.gov
## SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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</thead>
<tbody>
<tr>
<td>City: Herndon</td>
<td>T: 13S R: 18E</td>
</tr>
<tr>
<td>County: Fresno</td>
<td>S: 1</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

### Final Adjusted Coordinates

- **Datum:** NAD83 (Stat. GPS)  Epoch: 2007.00
- **Latitude (DMS):** N 36° 50’ 00.12997”
- **Longitude (DMS):** W 119° 57’ 56.93398”
- **Projection:** State Plane Zone: California 4
- **Northing (Grid):** 2187923.09 usft.
- **Easting (Grid):** 6279022.72 usft.
- **Datum:** NAVD88 (Stat. GPS)  Geoid: 2003
- **Ortho Height:** 227.00 usft.

### Survey Mark Description

3” USBR Brass Disk stamped “DNB”, set in concrete structure.

### Go To Directions

Starting at the intersection of CA-99 and Ave 7 north of Herndon, CA

1. Head west on Ave 7 for 1.0 mi
2. Turn left, head south on Rd 32 for 1.1 mi
3. Continue south on gravelly road through trees for 0.1 mi

*Point will be to the south on north end of a bridge*

### Entered By: W. Harrison  
Checked By: G. Davis
**Point Number 103**  
**Point Name SKAGGS**

### SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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<tbody>
<tr>
<td>City: Herndon</td>
<td>T: 13S</td>
</tr>
<tr>
<td>County: Madera</td>
<td>R: 17E</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

### Final Adjusted Coordinates

- **Datum:** NAD83 (Stat. GPS)  
  **Epoch:** 2007.00
- **Latitude (DMS):** N 36° 49' 35.14106”
- **Longitude (DMS):** W 120° 05’ 16.27206”
- **Projection:** State Plane  
  **Zone:** California 4
- **Northing (Grid):** 2185777.97 usft.
- **Easting (Grid):** 6243281.25 usft.
- **Datum:** NAVD88 (Stat. GPS)  
  **Geoid:** 2003
- **Ortho Height:** 235.22 usft.

### Survey Mark Description

3” USBR Aluminum Disk stamped “SKAGGS”, set on rebar approximately 10” below ground surface.

### Go To Directions

**Starting at the intersection of CA–99 and Ave 7 north of Herndon, CA**

1. Head west on Ave 7 for 6.0 mi
2. Turn left, head south on CA–145 / Rd 27 for 1.5 mi
3. Turn right, head west on Ave 5 1/2 for 1.7 mi
4. Turn left, head south on farm road for 0.2 mi

*Point will be to the west of the farm road at a gate*

### Entered By: W. Harrison  
Checked By: G. Davis
**SJRRP Geodetic Control Network**

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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<tbody>
<tr>
<td>City: Firebaugh</td>
<td>T: 13S R: 15E</td>
</tr>
<tr>
<td>County: Madera</td>
<td>S: 25</td>
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<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
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</table>

<table>
<thead>
<tr>
<th>Final Adjusted Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude (DMS): N 36° 46' 26.73017&quot;</td>
</tr>
<tr>
<td>Longitude (DMS): W 120° 17' 03.66549&quot;</td>
</tr>
<tr>
<td>Projection: State Plane Zone: California 4</td>
</tr>
<tr>
<td>Northing (Grid): 2167435.98 usft.</td>
</tr>
<tr>
<td>Easting (Grid): 6185519.88 usft.</td>
</tr>
<tr>
<td>Ortho Height: 180.59 usft.</td>
</tr>
</tbody>
</table>

**Survey Mark Description**

3" CADWR Brass Disk stamped "LIFeson, 2", set in concrete structure.

**Go To Directions**

Starting at the intersection of CA-33 and 13th St in Firebaugh, CA

1. Head northeast on 13th St for 6.3 mi
2. Turn slight right, head southeast on Ave 7 / Ripperdan Ave for 1.5 mi
3. Turn right, head south on Chowchilla Canal Rd for 4.6 mi
4. Turn left, head northeast at bend in road for 300 ft
**Pass through gate using USBR 150 Key**
5. Turn right, head southeast on canal levee for 1.8 mi
6. Turn left, head northeast toward bridge for 280 ft

*Point will be to the south on east end of the north most bridge crossing*

**Entered By:** W. Harrison  
**Checked By:** C. Davis
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey  Date: 11/30/2011
City: Mendota  T: 13S  R: 15E
County: Fresno  S: 23
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 36° 46’ 53.34150”
Longitude (DMS): W 120° 18’ 46.16040”
Projection: State Plane  Zone: California 4
Northing (Grid): 2170239.66 usft.
Easting (Grid): 6177218.96 usft.

Ortho Height: 165.22 usft.

Survey Mark Description
3” USBR Aluminum Disk stamped “SJN”, set on rebar approximately 10” below ground surface.

Go To Directions
Starting at the CA–33 / CA–180 split in Mendota, CA

1. Head southeast on CA–180 for 5.1 mi
2. Turn left, head north on N San Mateo Ave for 3.3 mi

*Point will be to the east of N San Mateo Ave and west of the north end of a gate

Entered By: W. Harrison
Checked By: G. Davis
Point Number 105
Point Name SJN
Control Point Data Sheet

SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Obstruction Plot</th>
<th>Site View</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="105-Obstruction.jpg" alt="Obstruction Plot" /></td>
<td><img src="105-Site.jpg" alt="Site View" /></td>
</tr>
</tbody>
</table>

Vicinity Map
# SJRRP Geodetic Control Network

**Point Number 106**  
**Point Name: ELN**  
**Control Point Data Sheet**

## Date and Survey Information
- **Date:** 12/27/2011  
- **Survey Date:** 11/30/2011  
- **City:** El Nido  
- **T:** 9S  
- **R:** 12E  
- **County:** Merced  
- **S:** 13  
- **State:** California  
- **Meridian:** Mount Diablo

## Final Adjusted Coordinates
- **Datum:** NAD83 (Stat. GPS)  
- **Epoch:** 2007.00  
- **Latitude (DMS):** N 37° 08’ 50.25889”  
- **Longitude (DMS):** W 120° 36’ 19.20747”

### Projection and Grid Information
- **State Plane Zone:** California 4  
- **Northing (Grid):** 2304707.54 usft.  
- **Easting (Grid):** 6093792.64 usft.

### Geoid and Ortho Height
- **Datum:** NAVD88 (Stat. GPS)  
- **Geoid:** 2003  
- **Ortho Height:** 109.68 usft.

## Survey Mark Description
- 3” USBR Brass Disk stamped “ELN”, set in concrete pad.

## Go To Directions

Starting at the intersection of CA–59 and CA–152 south of El Nido, CA

1. Head north on CA–59 for 2.0 mi
2. Turn left, head west on W Washington Rd for 5.3 mi
3. Turn right, head northeast on canal levee for 2.6 mi

**Pass through 3 gates using key provided by the Lower San Joaquin Levee District (Reggie Hill 209–769–9310)**

*Point will be to the east of the canal levee and west of a canal*

## Entered By: W. Harrison  
## Checked By: C. Davis
RECLAMATION
Managing Water in the West

SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
</tr>
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<tbody>
<tr>
<td>City: El Nido</td>
<td>T: 8S R: 12E</td>
</tr>
<tr>
<td>County: Merced</td>
<td>S: 30</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

Final Adjusted Coordinates

Latitude (DMS): N 37° 12' 16.78896”
Longitude (DMS): W 120° 41' 49.78081”

Projection: State Plane Zone: California 4
Northing (Grid): 2326052.93 usft.
Easting (Grid): 6067401.85 usft.

Ortho Height: 106.75 usft.

Survey Mark Description

3” CADWR Brass Disk, set in concrete structure.

Go To Directions

Starting at the intersection of CA–59 and Sandy Mush Rd north of El Nido, CA

1. Head west on W Sandy Mush Rd for 10.2 mi
2. Turn right, head northwest on canal levee for 1.6 mi
**Pass through gate using key provided by the Lower San Joaquin Levee District (Reggie Hill 209–769–9310)
3. Turn right, head north at bridge for 0.3 mi
4. Turn right, head northeast at bridge for 220 ft

*Point will be to the south at southwest end of the bridge

Entered By: W. Harrison
Checked By: C. Davis

Close Up View (107-Close.jpg)

Aerial View

MP220 – Surveys and Mapping Branch
2800 Cottage Way, W2922, Sacramento, CA 95825-1886  916.978.5306  Fax 916.978.5345
www.USBR.gov
 SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Stevinson  T: 8S  R: 10E
County: Merced  S: 10
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 37° 14’ 51.58645”
Longitude (DMS): W 120° 51’ 05.21693”

Projection: State Plane  Zone: California 4
Northing (Grid): 2342536.69  usft.
Easting (Grid): 6022775.71  usft.

Ortho Height: 79.14  usft.

Survey Mark Description
3” USGS Brass Disk, set in concrete pad.

Go To Directions
Starting at the intersection of CA–140 and CA–165 south of Stevinson, CA
1. Head south on CA–165 for 4.5 mi
*Point will be to the east of CA–165 and north of a river

Entered By: W. Harrison
Checked By: G. Davis
**SJRRP Geodetic Control Network**

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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</thead>
<tbody>
<tr>
<td>City: Stevinson</td>
<td>T: 7S R: 10E</td>
</tr>
<tr>
<td>County: Merced</td>
<td>S: 27</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

**Final Adjusted Coordinates**

- **Datum:** NAD83 (Stat. GPS)  Epoch: 2007.00
- **Latitude (DMS):** N 37° 17’ 29.68073”
- **Longitude (DMS):** W 120° 51’ 05.32143”
- **Projection:** State Plane Zone: California 4
- **Northing (Grid):** 2358524.12 usft.
- **Easting (Grid):** 6023075.51 usft.
- **Datum:** NAVD88 (Stat. GPS)  Geoid: 2003
- **Ortho Height:** 79.67 usft.

**Survey Mark Description**

- 3” USBR Brass Disk stamped “SJS”, set in concrete structure.

**Aerial View**

**Go To Directions**

- **Starting at the intersection of CA-140 and CA-165 south of Stevinson, CA**
- **1. Head south on CA-165 for 1.5 mi**
- **Point will be to the west of CA-165 and southeast of a gate**

**Entered By:** W. Harrison  
**Checked By:** G. Davis
**SJRRP Geodetic Control Network**

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>City: Newman</td>
<td>Rancho: Pescadero</td>
</tr>
<tr>
<td>County: Stanislaus</td>
<td>Meridian: Mount Diablo</td>
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</table>

**Final Adjusted Coordinates**

- **Datum:** NAD83 (Stat. GPS)  Epoch: 2007.00
- **Latitude (DMS):** N 37° 20' 47.37029"
- **Longitude (DMS):** W 120° 58’ 41.43057"
- **Projection:** State Plane  **Zone:** California 4
- **Northing (Grid):** 2379250.12 usft.
- **Easting (Grid):** 5986636.49 usft.
- **Datum:** NAVD88 (Stat. GPS)  **Geoid:** 2003
- **Ortho Height:** 71.39 usft.

**Survey Mark Description**

3” USBR Aluminum Disk stamped “SMN/NEW”, set on rebar approximately 10” below ground surface.

**Go To Directions**

Starting at the intersection of CA–33 and Merced St / Hills Ferry Rd in Newman, CA

1. Head northeast on Merced St / Hills Ferry Rd for 3.4 mi

*Point will be to the west of Hills Ferry Rd in the north most island at the intersection of River Rd

**Entered By:** W. Harrison  
**Checked By:** G. Davis
SJRRP Geodetic Control Network

Obstruction Plot

Site View (110–Site.jpg)

Vicinity Map

Point Number 110
Point Name SMN/NEW
Control Point Data Sheet
**SJRRP Geodetic Control Network**

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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<tbody>
<tr>
<td>City: Friant</td>
<td>T: 11S R: 21E</td>
</tr>
<tr>
<td>County: Madera</td>
<td>S: 6</td>
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<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
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**Final Adjusted Coordinates**

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<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Latitude (DMS): N 37° 00' 05.07473''</td>
<td>Longitude (DMS): W 119° 43' 15.52392''</td>
</tr>
<tr>
<td>Projection: State Plane Zone: California 4</td>
<td></td>
</tr>
<tr>
<td>Northing (Grid): 2248471.78 usft.</td>
<td>Easting (Grid): 6351131.26 usft.</td>
</tr>
<tr>
<td>Ortho Height: 384.82 usft.</td>
<td></td>
</tr>
</tbody>
</table>

**Survey Mark Description**

3" USBR Brass Disk stamped "CTK", set in rock.

**Go To Directions**

Starting at the intersection of N Friant Rd and Rd 206 in Friant, CA

1. Head northwest on Rd 206 for 1.0 mi
2. Turn right, head northeast on dirt road for 0.4 mi

**Pass through gate using USBR 200 key**

*Point will be to the north of the dirt road*

**Entered By:** W. Harrison  
**Checked By:** G. Davis
## SJRRP Geodetic Control Network

### Obstruction Plot

<p>| | | | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td>20°</td>
<td>40°</td>
<td>60°</td>
<td>80°</td>
</tr>
<tr>
<td></td>
<td>120°</td>
<td>100°</td>
<td>80°</td>
<td>60°</td>
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</tbody>
</table>

### Site View

![Site View](111-Site.jpg)

### Vicinity Map

![Vicinity Map](VicinityMap.jpg)
### SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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<tbody>
<tr>
<td>City: Friant</td>
<td>T: 11S R: 21E</td>
</tr>
<tr>
<td>County: Fresno</td>
<td>S: 7</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

#### Final Adjusted Coordinates

- **Datum**: NAD83 (Stat. GPS)  Epoch: 2007.00
- **Latitude (DMS)**: N 36° 58' 54.53192"
- **Longitude (DMS)**: W 119° 43' 38.24116"
- **Projection**: State Plane  Zone: California 4
- **Northing (Grid)**: 2241351.56 usft.
- **Easting (Grid)**: 6349234.57 usft.
- **Datum**: NAVD88 (Stat. GPS)  Geoid: 2003
- **Ortho Height**: 309.04 usft.

#### Survey Mark Description

3" USBR Brass Disk stamped "SJF", set in rock.

#### Go To Directions

Starting at the intersection of N Friant Rd and Rd 206 in Friant, CA

1. Head southwest on N Friant Rd for 1.3 mi
2. Turn right, head northwest on Lost Lake for 0.5 mi
   **Pass through park kiosk**
3. Turn right, head northeast on Lost Lake Rd for 0.6 mi

*Point will be to the north of Lost Lake Rd

#### Entered By: W. Harrison
Checked By: G. Davis
Point Number 112
Point Name SJF

SJRRP Geodetic Control Network

Obstruction Plot

Site View

Vicinity Map
**SJRRP Geodetic Control Network**

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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<tbody>
<tr>
<td>City: Friant</td>
<td>T: 11S</td>
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<tr>
<td>County: Fresno</td>
<td>R: 21E</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

**Final Adjusted Coordinates**

- Latitude (DMS): N 36° 56” 03.20029”
- Longitude (DMS): W 119° 43’ 48.12618”
- Projection: State Plane Zone: California 4
- Northing (Grid): 2224030.75 usft.
- Easting (Grid): 6348300.84 usft.
- Ortho Height: 312.31 usft.

**Survey Mark Description**

2” CADWR Brass Disk stamped “DENISE, 2008”, set in concrete structure.

**Go To Directions**

Starting at the intersection of N Friant Rd and Rd 206 in Friant, CA

1. Head southeast on N Friant Rd for 4.2 mi

*Point will be to the east of N Friant Rd and south of a creek

**Entered By:** W. Harrison  
**Checked By:** G. Davis
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Kerman  T: 13S  R: 17E
County: Fresno  S: 20
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 36° 47' 34.18461"
Longitude (DMS): W 120° 08' 46.89407"

Projection: State Plane Zone: California 4
Northing (Grid): 2173745.69 usft.
Easting (Grid): 6226012.87 usft.

Ortho Height: 210.81 usft.

Survey Mark Description
2" CADWR Brass Disk stamped "KAELA, 2008", set in concrete structure.

Go To Directions
Starting at the intersection of CA–145 and CA–180 in Kerman, CA
1. Head west on CA–180 for 4.0 mi
2. Turn right, head north on N Lake Ave for 4.0 mi
3. Turn left, head west on W Ashlan Ave for 0.8 mi

*Point will be to the south of Ashlan Ave and south of canal

Entered By: W. Harrison
Checked By: C. Davis
Point Number 115
Point Name JBP
Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Kerman  T: 15S  R: 16E
County: Fresno  S: 1
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 36° 39’ 02.76435”
Longitude (DMS): W 120° 10’ 44.25692”

Projection: State Plane  Zone: California 4
Northing (Grid): 2122146.20 usft.
Easting (Grid): 6215832.96 usft.

Ortho Height: 173.17 usft.

Survey Mark Description

3” Brass Disk stamped “NLD206”, set in concrete structure.

Go To Directions

Starting at the intersection of CA-145 and CA-180 in Kerman, CA
1. Head south on CA-145 for 5.0 mi
2. Turn left, head west on W American Ave for 5.9 mi
3. Turn left, head southwest on S Placer Ave for 1.0 mi

*Point will be to the east of S Placer Ave and south of a canal

Entered By: W. Harrison
Checked By: G. Davis

Close Up View

Aerial View

MP220 – Surveys and Mapping Branch
2800 Cottage Way, W2922, Sacramento, CA 95825-1866  916.978.5306  Fax 916.978.5345
www.USBR.gov
SJRRP Geodetic Control Network

Date: 12/27/2011   Survey Date: 11/30/2011
City: Mendota   T: 13S   R: 15E
County: Fresno   S: 7
State: California   Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 36° 48' 39.14433"
Longitude (DMS): W 120° 22' 42.73514"
Projection: State Plane   Zone: California 4
Northing (Grid): 2181208.00 usft.
Easting (Grid): 6158129.75 usft.
Ortho Height: 155.06 usft.

Survey Mark Description
3” USGS Brass Disk, set in concrete block.

Go To Directions
Starting at the CA–33 / CA–180 split in Mendota, CA
1. Head north on CA–33 for 0.2 mi
2. Turn right, head northeast on Bass Ave for 2.1 mi
3. Turn left, head northwest on unpaved private road for 0.4 mi
4. Turn left, head northwest for 0.3 mi
5. Turn right, head northwest for 0.8 mi
6. Turn right, head northeast for 0.4 mi
7. Turn right, head southeast for 300 ft

*Point will be to the east of a canal and west of a river

Entered By: W. Harrison
Checked By: C. Davis
**SJRRP Geodetic Control Network**

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>City: Turlock</td>
<td>T: 5S</td>
</tr>
<tr>
<td>County: Merced</td>
<td>R: 10E</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
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</tbody>
</table>

### Final Adjusted Coordinates

- **Datum:** NAD83 (Stat. GPS)  
  **Epoch:** 2007.00  
- **Latitude (DMS):** N 37° 27' 48.81226"  
- **Longitude (DMS):** W 120° 48' 45.63688"

- **Projection:** State Plane  
  **Zone:** California 4
- **Northing (Grid):** 2420921.47 usft.  
- **Easting (Grid):** 6035543.27 usft.

- **Datum:** NAVD88 (Stat. GPS)  
  **Geoid:** 2003  
- **Ortho Height:** 111.28 usft.

### Survey Mark Description


- **NGS PID:** HS4510

### Go To Directions

1. Head southeast on CA-99 for 3.0 mi  
2. Turn right, head southeast at exit 208 / Bradbury Rd for 0.3 mi  
3. Turn right, head west on Bradbury Rd for 0.1 mi  
4. Turn right, head northwest on Clausen Rd for 1.0 mi  
5. Turn right, head north on Griffith Rd for 0.5 mi  
6. Turn left, head northwest on W Harding Rd for 320 ft

*Point will be to the northeast of W Harding Rd and south of a canal*

### Entered By:

W. Harrison

### Checked By:

G. Davis

---

**Close Up View**  
(119-Close.jpg)

**Aerial View**  
(N37°27'48" W120°48'18"

---

**MP220 – Surveys and Mapping Branch**  
2800 Cottage Way, W2922, Sacramento, CA 95825-1886  
916.978.5306  
Fax 916.978.5345  
www.USBR.gov
Point Number 120  
Point Name 604.164  
Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Friant  T: 11S  R: 21E
County: Fresno  S: 5
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 36° 59’ 47.24011”
Longitude (DMS): W 119° 42’ 05.42969”

Projection: State Plane Zone: California 4
Northing (Grid): 2246626.02 usft.
Easting (Grid): 6356803.66 usft.

Ortho Height: 606.68 usft.

Survey Mark Description

Go To Directions
Starting at the intersection of N Friant Rd and Rd 206 in Friant, CA

1. Head northeast on N Friant Rd / Millerton Rd for 0.2 mi
2. Turn left, head northeast on Millerton Rd for 420 ft
**Pass through security gate at USBR facility to be escorted

*Point will be to the southeast of the left wing of Friant Dam

Entered By: W. Harrison
Checked By: C. Davis
## SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date: 12/27/2011 Survey</th>
<th>Date: 11/30/2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>City: Los Banos</td>
<td>T: 11S</td>
</tr>
<tr>
<td>County: Fresno</td>
<td>R: 13E</td>
</tr>
<tr>
<td>State: California</td>
<td>S: 12</td>
</tr>
<tr>
<td>Meridian: Mount Diablo</td>
<td></td>
</tr>
</tbody>
</table>

### Final Adjusted Coordinates
- **Datum:** NAD83 (Stat. GPS)  **Epoch:** 2007.00
- **Latitude (DMS):** N 36° 58' 58.85939"
- **Longitude (DMS):** W 120° 30' 03.07763"

**Projection:** State Plane  **Zone:** California 4
- **Northing (Grid):** 2244410.17 usft.
- **Easting (Grid):** 6123306.18 usft.

- **Datum:** NAVD88 (Stat. GPS)  **Geoid:** 2003
- **Ortho Height:** 129.76 usft.

### Survey Mark Description
- **1.5" Brass Disk stamped "375", set in concrete structure.**

**NGS PID:** GU0762

### Go To Directions
1. **Starting at the CA–33 / CA–152 split east of Los Banos, CA**
2. **Head south on CA–33 for 4.7 mi**
3. **Turn left, head east on Valeria St for 7.4 mi**
4. **Turn left, head north on canal levee for 330 ft**
5. **Pass through gate using 2001 key**

**Point will be to the west of the canal levee and east of a concrete flume**

---

**Entered By:** W. Harrison  
**Checked By:** C. Davis
**SJRRP Geodetic Control Network**

**Date:** 12/27/2011  **Survey Date:** 11/30/2011  
**City:** Mendota  **T:** 13S  **R:** 14E  
**County:** Fresno  **S:** 25  
**State:** California  **Meridian:** Mount Diablo

**Final Adjusted Coordinates**

Datum: NAD83 (Stat. GPS)  **Epoch:** 2007.00  
Latitude (DMS): N 36° 46’ 12.15517”  
Longitude (DMS): W 120° 23’ 32.24678”

Projection: State Plane  **Zone:** California 4  
Northing (Grid): 2166402.70 usft.  
Easting (Grid): 6153888.57 usft.

Datum: NAVD88 (Stat. GPS)  **Geoid:** 2003  
Ortho Height: 168.00 usft.

**Survey Mark Description**


**NGS PID:** DH6668

**Go To Directions**

Starting at the CA–33 / CA–180 split in Mendota, CA

1. Head northwest on CA–33 for 0.7 mi

*Point will be to the east of CA–33 and north of a canal*

**Entered By:** W. Harrison  
**Checked By:** G. Davis
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011  
City: Firebaugh  T: 11S  R: 15E  
County: Madera  S: 29  
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 36° 57’ 09.43735”  
Longitude (DMS): W 120° 21’ 00.08244”

Projection: State Plane  Zone: California 4  
Northing (Grid): 2232691.12  usft.  
Easting (Grid): 6167201.64  usft.

Ortho Height: 162.66  usft.

Survey Mark Description

3” USBR Brass Disk stamped “WES”, set in concrete structure.

Go To Directions

Starting at the intersection of CA-33 and 13th St in Firebaugh, CA

1. Head northeast on 13th St for 4.1 mi
2. Turn left, head north on Hemlock Rd for 6.5 mi
3. Turn right, head east on Ave 14 for 1.8 mi

*Point will be to the north of Ave 14 at the east end of a bridge

Entered By: W. Harrison  
Checked By: G. Davis
**SJRRP Geodetic Control Network**

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>City: El Nido</td>
<td>T: 10S</td>
</tr>
<tr>
<td>County: Madera</td>
<td>R: 14E</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

**Final Adjusted Coordinates**

- **Datum:** NAD83 (Stat. GPS)  
  **Epoch:** 2007.00
- **Latitude (DMS):** N 37° 05' 01.38407''
- **Longitude (DMS):** W 120° 26' 57.63788''
- **Projection:** State Plane  
  **Zone:** California 4
- **Northing (Grid):** 2280839.13 usft.  
  **Easting (Grid):** 6138903.33 usft.
- **Datum:** NAVD88 (Stat. GPS)  
  **Geoid:** 2003
- **Ortho Height:** 149.56 usft.

**Survey Mark Description**


**NGS PID:** HS1103

**Go To Directions**

Starting at the intersection of CA–59 and CA–152 south of El Nido, CA

1. Head east on CA–152 for 2.4 mi

*Point will be to the north of CA–152

**Entered By:** W. Harrison  
**Checked By:** G. Davis

**Aerial View**

MP220 – Surveys and Mapping Branch
2800 Cottage Way, W2922, Sacramento, CA 95825–1886  
916.978.5306  Fax 916.978.5345  
www.USBR.gov
### SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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</thead>
<tbody>
<tr>
<td>City: Firebaugh</td>
<td>T: 13S R: 13E</td>
</tr>
<tr>
<td>County: Fresno</td>
<td>S: 1</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

#### Final Adjusted Coordinates
- Latitude (DMS): N 36° 49' 20.09849"
- Longitude (DMS): W 120° 30' 06.41638"
- Projection: State Plane Zone: California 4
- Northing (Grid): 2185890.19 usft.
- Easting (Grid): 6122120.09 usft.
- Ortho Height: 184.18 usft.

#### Survey Mark Description

#### NGS PID: DH6676

#### Go To Directions

Starting at the intersection of CA–33 and 13th St in Firebaugh, CA

1. Head southeast on CA–33 for 2.6 mi
2. Turn right, head west on W Bullard Rd for 3.6 mi

*Point will be to the north of W Bullard Rd

#### Entered By: W. Harrison
Checked By: G. Davis
**SJRRP Geodetic Control Network**

<table>
<thead>
<tr>
<th>Date:</th>
<th>12/27/2011</th>
<th>Survey Date:</th>
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<tbody>
<tr>
<td>City:</td>
<td>Merced</td>
<td>T: 7S</td>
<td>R: 14E</td>
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<tr>
<td>County:</td>
<td>Merced</td>
<td>S: 30</td>
<td></td>
</tr>
<tr>
<td>State:</td>
<td>California</td>
<td>Meridian: Mount Diablo</td>
<td></td>
</tr>
</tbody>
</table>

**Final Adjusted Coordinates**

- Latitude (DMS): N 37° 17' 17.40204"
- Longitude (DMS): W 120° 28' 35.80079"

- Projection: State Plane Zone: California 4
- Northing (Grid): 2355392.88 usft.
- Easting (Grid): 6132094.72 usft.

- Ortho Height: 167.38 usft.

**Survey Mark Description**

- Steel Rod in well. Well casing stamped "E1420, 1988".

**NGS PID:** HS4523

**Go To Directions**

Starting at the intersection of CA-99 and E Childs Ave in Merced, CA

1. Head west on E Childs Ave for 1.1 mi

*Point will be to the north of E Childs Ave and west of D St*

**Entered By:** W. Harrison  
**Checked By:** G. Davis
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Firebaugh  T: 12S  R: 16E
County: Madera  S: 32
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 36° 51’ 03.59620”
Longitude (DMS): W 120° 14’ 12.88984”

Projection: State Plane  Zone: California 4
Northing (Grid): 2195250.76 usft.
Easting (Grid): 6199772.72 usft.

Ortho Height: 182.87 usft.

Survey Mark Description
2” CADWR Brass Disk stamped “USHER, 2008”, set in concrete structure.

Go To Directions
Starting at the intersection of CA–33 and 13th St in Firebaugh, CA
1. Head northeast on 13th St for 6.3 mi
2. Turn right, head south east on Ripperdan Rd for 6.0 mi
*Point will be to the north of Ripperdan Rd

Entered By: W. Harrison
Checked By: G. Davis
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Chaney Ranch T: 15S    R: 12E
County: Fresno     S: 16
State: California    Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 36° 37’ 26.48484”
Longitude (DMS): W 120° 39’ 32.48835”

Projection: State Plane Zone: California 4
Northing (Grid): 2114491.87 usft.
Easting (Grid): 6074855.71 usft.

Ortho Height: 619.26 usft.

Survey Mark Description


NGS PID: GU0588

Go To Directions

Starting at the intersection of I-5 and W Panoche Rd southwest of Chaney Ranch, CA

1. Head southwest on W Panoche Rd for 1.1 mi
2. Turn left, head south on Panoche Rd for 1.5 mi

*Point will be to the south of Panoche Rd

Entered By: W. Harrison
Checked By: G. Davis
Point Number 129
Point Name FIREPORT

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Firebaugh  T: 12S  R: 14E
County: Fresno  S: 29
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 36° 51’ 26.29737”
Longitude (DMS): W 120° 27’ 46.19026”

Projection: State Plane  Zone: California 4
Northing (Grid): 2198475.32  usft.
Easting (Grid): 6133714.10  usft.

Ortho Height: 146.36  usft.

Survey Mark Description


NGS PID: GU4281

Go To Directions

Starting at the intersection of CA–33 and 13th St in Firebaugh, CA

1. Head northwest on CA–33 for 500 ft
2. Turn left, head southwest on W Nees Ave for 0.3 mi
3. Turn right, head northwest on J St for 0.2 mi

*Point will be to the northeast of J St

Entered By: W. Harrison
Checked By: G. Davis
## SJRRP Geodetic Control Network

### Obstruction Plot

<table>
<thead>
<tr>
<th>N</th>
<th>120°</th>
<th>300°</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>240°</td>
<td>180°</td>
</tr>
<tr>
<td>210°</td>
<td>150°</td>
<td>120°</td>
</tr>
<tr>
<td>240°</td>
<td>270°</td>
<td>300°</td>
</tr>
</tbody>
</table>

### Site View

![Site View](129-Site.jpg)

### Vicinity Map

![Vicinity Map](image)

---

**Point Number 129**

**Point Name: FIREPORT**

Control Point Data Sheet
RECLAMATION
Managing Water in the West

Point Number 130
Point Name FLEMONT
Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Stevinson  T: 7S  R: 9E
County: Merced  S: 24
State: California  Meridian: Mount Diablo

<table>
<thead>
<tr>
<th>Final Adjusted Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude (DMS): N 37° 18’ 38.33195”</td>
</tr>
<tr>
<td>Longitude (DMS): W 120° 55’ 40.41570”</td>
</tr>
<tr>
<td>Projection: State Plane Zone: California 4</td>
</tr>
<tr>
<td>Northing (Grid): 2365903.81 usft.</td>
</tr>
<tr>
<td>Easting (Grid): 6000988.83 usft.</td>
</tr>
<tr>
<td>Ortho Height: 73.31 usft.</td>
</tr>
</tbody>
</table>

Survey Mark Description

3” USGS Aluminum Disk stamped "FLEMONT, 1943" set in concrete block.

NGS PID: HS1919

Go To Directions

Starting at the intersection of CA–140 and CA–165 south of Stevinson, CA

1. Head west on CA–140 for 4.2 mi

*Point will be to the south of CA–140 behind a fence

Entered By: W. Harrison
Checked By: G. Davis
**SJRRP Geodetic Control Network**

**Date:** 12/27/2011  **Survey Date:** 11/30/2011  
**City:** Merced  **T:** 8S  **R:** 16E  
**County:** Merced  **S:** 19  
**State:** California  **Meridian:** Mount Diablo

---

**Final Adjusted Coordinates**

**Datum:** NAD83 (Stat. GPS)  **Epoch:** 2007.00  
**Latitude (DMS):** N 37° 13’ 41.95569”  
**Longitude (DMS):** W 120° 16’ 13.94907”  

**Projection:** State Plane  **Zone:** California 4  
**Northing (Grid):** 2332746.43 usft.  
**Easting (Grid):** 6191751.99 usft.  

**Datum:** NAVD88 (Stat. GPS)  **Geoid:** 2003  
**Ortho Height:** 243.12 usft.

---

**Survey Mark Description**


**NGS PID:** HS1204

---

**Go To Directions**

Starting at the intersection of CA-99 and E Childs Ave in Merced, CA

1. Head south east on CA-99 for 5.8 mi  
2. Turn left, head east on E La Grand Rd for 6.3 mi  

*Point will be to the south of E La Grand Rd and east of S Minyurn Rd*

---

**Entered By:** W. Harrison  
**Checked By:** G. Davis
## SJRRP Geodetic Control Network

### Obstruction Plot

<table>
<thead>
<tr>
<th>120°</th>
<th>180°</th>
<th>240°</th>
<th>300°</th>
<th>360°</th>
</tr>
</thead>
<tbody>
<tr>
<td>120°</td>
<td>180°</td>
<td>240°</td>
<td>300°</td>
<td>360°</td>
</tr>
</tbody>
</table>

### Site View

![Site View Image](131-Site.jpg)

### Vicinity Map

![Vicinity Map](vicinity_map.png)
Point Number 132
Point Name G 990
Control Point Data Sheet

### SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date:</th>
<th>12/27/2011</th>
<th>Survey Date:</th>
<th>11/30/2011</th>
</tr>
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<tbody>
<tr>
<td>City:</td>
<td>Los Banos</td>
<td>T: 11S</td>
<td>R: 13E</td>
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<tr>
<td>County:</td>
<td>Fresno</td>
<td>S: 12</td>
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<tr>
<td>State:</td>
<td>California</td>
<td>Meridian:</td>
<td>Mount Diablo</td>
</tr>
</tbody>
</table>

#### Final Adjusted Coordinates

- **Datum:** NAD83 (Stat. GPS)  
  - Epoch: 2007.00  
- **Latitude (DMS):** N 36° 59' 46.14688"  
- **Longitude (DMS):** W 120° 30' 10.56218"  
- **Projection:** State Plane  
  - Zone: California 4  
- **Northing (Grid):** 2249201.47 usft.  
- **Easting (Grid):** 6122773.83 usft.  
- **Datum:** NAVD88 (Stat. GPS)  
  - Geoid: 2003  
- **Ortho Height:** 127.14 usft.

#### Survey Mark Description


- **NGS PID:** GU0763

#### Go To Directions

1. Starting at the CA–33 / CA–152 split east of Los Banos, CA  
2. Head south on CA–33 for 4.7 mi  
3. Turn left, head east on Valeria St for 7.4 mi  
4. Turn left, head north on canal levee for 1.0 mi  

**Pass through gate using 2001 key**  

*Point will be to the south of the canal levee and north of a canal*

#### Entered By: W. Harrison

#### Checked By: G. Davis

---

**MP220 – Surveys and Mapping Branch**  
2800 Cottage Way, W2922, Sacramento, CA 95825-1886  
916.978.5306  
Fax 916.978.5345  
www.USBR.gov
# SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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</thead>
<tbody>
<tr>
<td>City: El Nido</td>
<td>Rancho: Sanjon de Santa</td>
</tr>
<tr>
<td>County: Merced</td>
<td>Rita</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
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</table>

## Final Adjusted Coordinates

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude (DMS): N 37° 03' 42.71315&quot;</td>
<td>Longitude (DMS): W 120° 32' 36.36591&quot;</td>
</tr>
<tr>
<td>Projection: State Plane Zone: California 4</td>
<td></td>
</tr>
<tr>
<td>Northing (Grid): 2273311.25 usft.</td>
<td>Easting (Grid): 6111332.04 usft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ortho Height: 122.28 usft.</td>
<td></td>
</tr>
</tbody>
</table>

## Survey Mark Description


NGS PID: AB5019

## Go To Directions

Starting at the intersection of CA–59 and CA–152 south of El Nido, CA

1. Head southwest on CA–152 for 3.1 mi

*Point will be to the south in the northwest corner of the east bound bridge

## Entered By:

W. Harrison

## Checked By:

C. Davis
SJRRP Geodetic Control Network

Obstruction Plot

Site View

Vicinity Map

Point Number 133
Point Name H 1235 RESET

Control Point Data Sheet
## SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date</th>
<th>Survey Date</th>
<th>Datum</th>
<th>Epoch</th>
</tr>
</thead>
</table>

**City:** Rolling Hills  
**County:** Fresno  
**State:** California  
**Meridian:** Mount Diablo

### Final Adjusted Coordinates
- **Latitude (DMS):** N 36° 52’ 30.06695”
- **Longitude (DMS):** W 119° 47’ 31.26816”

**Projection:** State Plane  
**Zone:** California 4  
**Northing (Grid):** 2202620.39 usft.  
**Easting (Grid):** 6330007.58 usft.

**Datum:** NAVD88 (Stat. GPS)  
**Geoid:** 2003  
**Ortho Height:** 290.00 usft.

### Survey Mark Description
- 3” USGS Brass Disk stamped “H1 1941”, set in concrete structure.

**NGS PID:** DG9695

### Go To Directions
1. Head south on CA-41 for 1.8 mi  
2. Turn right, head southwest on Exit 138 for 0.4 mi  
3. Turn left, head northeast on California 41 Business for 0.4 mi  
4. Turn right, head south on unnamed road for 1.6 mi

*Point will be to the west at the south end of a bridge*

### Entered By: W. Harrison  
**Checked By:** C. Davis
# SJRRP Geodetic Control Network

| Date: | 12/27/2011 | Survey Date: | 11/30/2011 |
| City: | Chowchilla | T: | 10S |
| County: | Madera | R: | 16E |
| State: | California | Meridian: | Mount Diablo |

## Final Adjusted Coordinates
- **Datum:** NAD83 (Stat. GPS)  Epoch: 2007.00
- **Latitude (DMS):** N 37° 05' 04.11476"
- **Longitude (DMS):** W 120° 13' 39.14228"
- **Projection:** State Plane  Zone: California 4
- **Northing (Grid):** 2280213.61 usft.
- **Easting (Grid):** 6203601.77 usft.
- **Datum:** NAVD88 (Stat. GPS)  Geoid: 2003
- **Ortho Height:** 236.72 usft.

## Survey Mark Description
- 2.5” CADT Aluminum Disk stamped “HPGN—CALIF., STA.06—03, 1991”, set on rod in well.
- **NGS PID:** HS5409

## Go To Directions
- Starting at the intersection of CA—152 and Robertson Blvd southwest of Chowchilla, CA
  1. Head east on CA—152 for 3.9 mi
- *Point will be to the north of CA—152 and south of fence*

## Entered By: W. Harrison
## Checked By: C. Davis
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Los Banos  T: 10S  R: 11E
County: Merced  S: 23
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 37° 03’ 16.98646”
Longitude (DMS): W 120° 44’ 35.03083”

Projection: State Plane  Zone: California 4
Northing (Grid): 2271706.38 usft.
Easting (Grid): 6053044.20 usft.

Ortho Height: 101.05 usft.

Survey Mark Description
2.5” CADT Aluminum Disk stamped “HPGN—CALIF., STA.10–01, 1991”, set on rod in well.

NGS PID: HS5410

Go To Directions
Starting at the CA–33 / CA–152 split east of Los Banos, CA

1. Head west on CA–33 / CA–152 for 5.9 mi

*Point will be to the south of CA–33 / CA–152 and west of a canal

Entered By: W. Harrison
Checked By: G. Davis
### SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date:</th>
<th>12/27/2011</th>
<th>Survey Date:</th>
<th>11/30/2011</th>
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<td>County:</td>
<td>Stanislaus</td>
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<tr>
<td>State:</td>
<td>California</td>
<td>Meridian:</td>
<td>Mount Diablo</td>
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</tbody>
</table>

**Final Adjusted Coordinates**

- **Datum:** NAD83 (Stat. GPS)  Epoch: 2007.00
- **Latitude (DMS):** N 37° 27' 51.28777"
- **Longitude (DMS):** W 121° 10' 40.41476"
- **Projection:** State Plane Zone: California 4
- **Northing (Grid):** 2423374.06 usft.
- **Easting (Grid):** 5929562.86 usft.
- **Datum:** NAVD88 (Stat. GPS)  Geoid: 2003
- **Ortho Height:** 239.11 usft.

**Survey Mark Description**

- **NGS PID:** HS5412

**Go To Directions**

Starting at the intersection of I–5 and Sperry Ave west of Patterson, CA

1. Head east on Sperry Rd for 600 ft

*Point will be to the south of Sperry Rd and east of a canal*

**Entered By:** W. Harrison  **Checked By:** G. Davis
Point Name: HPGN D CA 06 NF

Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Kerman  T: 15S  R: 18E
County: Fresno  S: 30
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 36° 35’ 24.28666”
Longitude (DMS): W 120° 03’ 39.04359”

Projection: State Plane  Zone: California 4
Northing (Grid): 2099649.71 usft.
Easting (Grid): 6250234.98 usft.

Ortho Height: 186.99 usft.

Survey Mark Description

2.5” CADT Aluminum Disk stamped
“CA–HPGN–DENSIFICATION, STA.06–NF, 1993”,
set on rod in well.

NGS PID: AC6109

Go To Directions

Starting at the intersection of CA–145 and
CA–180 in Kerman, CA

1. Head south on CA–145 for 10.1 mi

*Point will be to the east of CA–145 and
southeast of canal

Entered By: W. Harrison
Checked By: G. Davis
Point Number 140  
Point Name HPGN D CA 06 QF

Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Fresno  T: 13S  R: 19E
County: Fresno  S: 24
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 36° 47' 33.93580"
Longitude (DMS): W 119° 51' 39.02147"

Projection: State Plane Zone: California 4
Northing (Grid): 2172846.92 usft.
Easting (Grid): 6309610.27 usft.

Ortho Height: 292.41 usft.

Survey Mark Description

2.5" CADT Aluminum Disk stamped "CA—HPGN—DENSIFICATION, STA.06—QF, 1993", set on rod in well.

NGS PID: AC6102

Go To Directions

Starting at the intersection of CA—99 and CA—180 in Fresno, CA

1. Head north on CA—99 for 4.4 mi
2. Turn right, head northwest on Exit 138B for 0.2 mi
3. Turn right, head southeast on N Golden State Blvd for 0.1 mi
4. Turn right, head southeast on CA—99 South on ramp for 200 ft

*Point will be to the west of on ramp and east of a fence

Entered By: W. Harrison
Checked By: G. Davis
**SJRRP Geodetic Control Network**

**Date:** 12/27/2011  **Survey Date:** 11/30/2011  
**City:** Herndon  **T:** 12S  **R:** 18E  
**County:** Madera  **S:** 14  
**State:** California  **Meridian:** Mount Diablo

**Final Adjusted Coordinates**

**Datum:** NAD83 (Stat. GPS)  **Epoch:** 2007.00  
**Latitude (DMS):** N 36° 53' 13.22188"

**Longitude (DMS):** W 119° 58' 53.89858"

**Projection:** State Plane  **Zone:** California 4  
**Northing (Grid):** 2207496.63 usft.  
**Easting (Grid):** 6274591.76 usft.

**Datum:** NAVD88 (Stat. GPS)  **Geoid:** 2003  
**Ortho Height:** 285.41 usft.

**Survey Mark Description**

2.5” CADT Aluminum Disk stamped “CA–HPGN–DENSIFICATION, STA.06–RF, 1993”, set on rod in well.

**NGS PID:** AC6103

**Go To Directions**

Starting at the intersection of CA–99 and Ave 7 north of Herndon, CA

1. Head northwest on CA–99 for 2.3 mi  
2. Turn right, head northwest on Exit 147 for 0.3 mi  
3. Turn right, head east on Ave 9 for 0.2 mi  
4. Turn left, head north on Rd 30 1/2 for 0.7 mi

*Point will be to the east of Rd 30 1/2 and north of a canal*

**Entered By:** W. Harrison  
**Checked By:** G. Davis
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Rolling Hills  T: 11S  R: 20E
County: Madera  S: 16
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 36° 58’ 31.58110”
Longitude (DMS): W 119° 47’ 37.56648”

Projection: State Plane  Zone: California 4
Northing (Grid): 2239184.29 usft.
Easting (Grid): 6329798.04 usft.

Ortho Height: 430.40 usft.

Survey Mark Description
2.5” CADT Aluminum Disk stamped
“CA—HPGN—DENSIFICATION, STA.06—RG, 1993”,
set on rod in well.

NGS PID: AC6105

Go To Directions
Starting at the intersection of CA—41 and Ave
12 north of Rolling Hills, CA

1. Head north on CA—41 for 3.6 mi

*Point will be to the east of CA—41 and west
of a canal levee

Entered By: W. Harrison  
Checked By: G. Davis
### SJRRP Geodetic Control Network

**Date:** 12/27/2011  **Survey Date:** 11/30/2011  
**City:** Rolling Hills  **T:** 10S  **R:** 20E  
**County:** Madera  **S:** 2  
**State:** California  **Meridian:** Mount Diablo

#### Final Adjusted Coordinates

- **Datum:** NAD83 (Stat. GPS)  **Epoch:** 2007.00  
- **Latitude (DMS):** N 37° 05' 41.59638"  
- **Longitude (DMS):** W 119° 45' 08.46972"  
- **Projection:** State Plane  **Zone:** California 4  
- **Northing (Grid):** 2282575.54 usft.  
- **Easting (Grid):** 6342236.49 usft.  
- **Datum:** NAVD88 (Stat. GPS)  **Geoid:** 2003  
- **Ortho Height:** 1107.19 usft.

#### Survey Mark Description

- **NGS PID:** AC6106

#### Go To Directions

**Starting at the intersection of CA–41 and Ave 12 north of Rolling Hills, CA**

1. Head north on CA–41 for 12.4 mi

*Point will be to the west of CA–41 and north of Bates Station Rd

#### Entered By:** W. Harrison  
**Checked By:** G. Davis

---

**Close Up View (143–Close.jpg)**

**Aerial View**
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011  
City: Los Banos  T: 12S  R: 10E  
County: Merced  S: 1  
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 36° 55' 01.19899''  
Longitude (DMS): W 120° 49' 13.18395''  

Projection: State Plane  Zone: California 4  
Northing (Grid): 2221992.46 usft.  
Easting (Grid): 6029550.83 usft.

Ortho Height: 314.24 usft.

Survey Mark Description

2.5” CADT Aluminum Disk stamped  
"CA—HPGN—DENSIFICATION, STA.10—BK, 1993",  
set on rod in well.

NGS PID: AA4253

Go To Directions

Starting at the intersection of I—5 and CA—33  
/ CA—152 west of Los Banos, CA

1. Head south on I—5 for 11.0 mi  
2. Turn right, head southeast on Exit 391 for  
0.2 mi  
3. Turn left, head northeast on CA—165 for  
0.4 mi  
4. Turn right, head southeast on Poleline Rd  
for 1.7 mi  
5. Turn left, head north on 1st Lift Canal for  
0.2 mi

*Point will be to the west of 1st Lift Canal  
and south of a dirt road

Entered By: W. Harrison  
Checked By: G. Davis
Point Number 145  
Point Name J 1233  
Control Point Data Sheet

---

**SJRRP Geodetic Control Network**

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<thead>
<tr>
<th>Date: 12/27/2011</th>
<th>Survey Date: 11/30/2011</th>
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<td>City: Fresno</td>
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<td>County: Fresno</td>
<td>R: 22E</td>
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<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
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**Final Adjusted Coordinates**

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<td>Latitude (DMS): N 36° 52' 00.29609&quot;</td>
<td>Longitude (DMS): W 119° 33' 41.32075&quot;</td>
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</table>

| Projection: State Plane Zone: California 4 |
| Northing (Grid): 2199134.51 usft. |
| Easting (Grid): 6397420.40 usft. |

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<tr>
<td>Ortho Height: 494.09 usft.</td>
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**Survey Mark Description**


*NGS PID: GT1583*

---

**Go To Directions**

Starting at the intersection of CA—99 and CA—180 in Fresno, CA

1. Head northeast on CA—180 for 3.4 mi
2. Turn right, Head southeast on Exit 60A to north on CA—168 for 15.3
3. Turn right, Head southeast on E Shepherd Ave for 0.2 mi

*Point will be to the south of E Shepard Ave and north a dirt road*

---

**Entered By:** W. Harrison  
**Checked By:** G. Davis
**SJRRP Geodetic Control Network**

**Date:** 12/27/2011  **Survey Date:** 11/30/2011  
**City:** Los Banos  **Rancho:** San Luis Gonzaga  
**County:** Merced  **State:** California  
**Meridian:** Mount Diablo  

**Final Adjusted Coordinates**

**Datum:** NAD83 (Stat. GPS)  **Epoch:** 2007.00  
**Latitude (DMS):** N 37° 03’ 31.98347”  
**Longitude (DMS):** W 121° 03’ 24.76182”  

**Projection:** State Plane  **Zone:** California 4  
**Northing (Grid):** 2275034.32 usft.  
**Easting (Grid):** 5961519.30 usft.  

**Datum:** NAVD88 (Stat. GPS)  **Geoid:** 2003  
**Ortho Height:** 285.34 usft.  

**Survey Mark Description**


**NGS PID:** HS2341

**Go To Directions**

Starting at the intersection of I-5 and CA-33 / CA-152 west of Los Banos, CA

1. Head west on CA-33 / CA-152 for 4.9 mi  
2. Turn left, Head southwest on Basalt Rd for 0.1 mi  
3. Turn left, head east on Gonzaga Rd for 360 ft

*Point will be to the north of Gonzaga Rd

**Entered By:** W. Harrison  
**Checked By:** C. Davis
**SJRRP Geodetic Control Network**

**Date:** 12/27/2011  **Survey Date:** 11/30/2011  
**City:** Los Banos  **T:** 11S  **R:** 13E  
**County:** Fresno  **S:** 20  
**State:** California  **Meridian:** Mount Diablo  

**Datum:** NAD83 (Stat. GPS)  **Epoch:** 2007.00  
**Latitude (DMS):** N 36° 57’ 58.56692”  
**Longitude (DMS):** W 120° 33’ 53.90130”  

**Projection:** State Plane  **Zone:** California 4  
**Northing (Grid):** 2238612.26 usft.  
**Easting (Grid):** 610481.34 usft.  

**Datum:** NAVD88 (Stat. GPS)  **Geoid:** 2003  
**Ortho Height:** 124.22 usft.  

**Survey Mark Description**  
2.5” CADT Aluminum Disk stamped “KELLIE, 2003”, set on rod in well.  

**NGS PID:** DH6674  

**Go To Directions**  
Starting at the CA–33 / CA–152 split east of Los Banos, CA  
1. Head south on CA–33 for 4.7 mi  
2. Turn left, head east on Valeria St for 4.0 mi  
3. Turn right, head south on Fairfax Ave for 1.2 mi  

*Point will be to the west of Fairfax Ave at the intersection of two canals*  

**Entered By:** W. Harrison  
**Checked By:** C. Davis
Point Number 147
Point Name KELLIE
Control Point Data Sheet

SJRRP Geodetic Control Network

Obstruction Plot

Site View

(147-Site.jpg)

Vicinity Map
Point Number 148
Point Name LIVINGSTON

Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Livingston  T: 6S  R: 11E
County: Merced  S: 25
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 37° 23' 12.29808"
Longitude (DMS): W 120° 43' 15.87696"

Projection: State Plane  Zone: California 4
Northing (Grid): 2392467.49  usft.
Easting (Grid): 6061625.74  usft.

Ortho Height: 134.38  usft.

Survey Mark Description

3" NGS Brass Disk stamped "LIVINGSTON 1931, 1982", set in concrete block.

NGS PID: HS5446

Go To Directions

Starting at the intersection of CA-99 and Main St in Livingston, CA

1. Head southwest on Main St for 190 ft
2. Turn left, head southeast into parking lot
3. Follow north side of train tracks behind business for 520 ft

*Point will be to the north of train tracks in fenced area

Entered By: W. Harrison
Checked By: G. Davis
Point Number 148
Point Name LIVINGSTON RESET
Control Point Data Sheet

SJRRP Geodetic Control Network

Obstruction Plot

Site View (148-Site.jpg)

Vicinity Map

MP220 — Surveys and Mapping Branch
2800 Cottage Way, W2922, Sacramento, CA 95825—1886 916.978.5306 Fax 916.978.5345
www.USBR.gov
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Newman  Rancho: Pescadero
County: Stanislaus  State: California
Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 37° 20' 13.71506"
Longitude (DMS): W 121° 01' 42.47200"

Projection: State Plane  Zone: California 4
Northing (Grid): 2376151.70  usft.
Easting (Grid): 5971948.29  usft.

Ortho Height: 97.26  usft.

Survey Mark Description
3” USGS Brass Disk stamped “NEWMAN NW BASE, 1943”, set in concrete block.

NGS PID: HS2391

Go To Directions
Starting at the intersection of CA–33 and Merced St / Hills Ferry Rd in Newman, CA

1. Head northwest on CA–33 for 1.7 mi

*Point will be to the east of CA–33 and east of a rail road track

Entered By: W. Harrison  Checked By: G. Davis
**SJRRP Geodetic Control Network**

<table>
<thead>
<tr>
<th>Obstruction Plot</th>
<th>Site View</th>
</tr>
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<tbody>
<tr>
<td><img src="image" alt="Obstruction Plot" /></td>
<td><img src="image" alt="Site View" /></td>
</tr>
</tbody>
</table>

**Vicinity Map**

![Vicinity Map](image)
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Stevinson  T: BS   R: 10E
County: Merced  S: 35
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 37° 11’ 32.74794”
Longitude (DMS): W 120° 50’ 23.17677”

Projection: State Plane  Zone: California 4
Northing (Grid): 2322364.17 usft.
Easting (Grid): 6025789.06 usft.

Ortho Height: 84.68 usft.

Survey Mark Description

NGS PDI: HS1827

Go To Directions
Starting at the intersection of CA–140 and CA–165 south of Stevinson, CA

1. Head south on CA–165 for 8.5 mi
2. Turn right, head southwest on unnamed road for 60 ft

*Point will be to the south of the unnamed road and east of a canal

Entered By: W. Harrison
Checked By: G. Davis
Point Number 153
Point Name SHAWN
Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011 Survey Date: 11/30/2011
City: Firebaugh T: 13S R: 14E
County: Fresno S: 10
State: California Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 36° 49' 03.21821"
Longitude (DMS): W 120° 26' 00.16372"

Projection: State Plane Zone: California 4
Northing (Grid): 2183877.34 usft.
Easting (Grid): 6142113.66 usft.

Ortho Height: 154.69 usft.

Survey Mark Description

2.5” CADT Aluminum Disk stamped “SHAWN, 2003”, set on rod in well.

NGS PID: DH6679

Go To Directions

Starting at the intersection of CA-33 and 13th St in Firebaugh, CA

1. Head southeast on CA-33 for 3.0 mi

*Point will be to the west of CA-33 and east of a rail road track

Entered By: W. Harrison
Checked By: G. Davis
# SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Date: 12/27/2011</th>
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</tr>
</thead>
<tbody>
<tr>
<td>City: Kerman</td>
<td>T: 14S R: 18E</td>
</tr>
<tr>
<td>County: Fresno</td>
<td>S: B</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
</tr>
</tbody>
</table>

## Final Adjusted Coordinates

- **Datum**: NAD83 (Stat. GPS)  Epoch: 2007.00
- **Latitude** (DMS): N 36° 43’ 33.85616”
- **Longitude** (DMS): W 120° 01’ 28.81284”

- **Projection**: State Plane Zone: California 4
- **Northing** (Grid): 2149040.21 usft.
- **Easting** (Grid): 6261382.71 usft.

- **Datum**: NAVD88 (Stat. GPS)  Geoid: 2003
- **Ortho Height**: 229.94 usft.

## Survey Mark Description

3” CADH Brass Disk stamped "SPEAK 1972, AZIMUTH MARK", set in concrete structure.

**NGS PID**: GU3389

## Go To Directions

1. **Starting at the intersection of CA–145 and CA–180 in Kerman, CA**
2. **Head south on CA–145 for 0.5 mi**
3. **Turn left, head east on W Kearney Blvd for 2.0 mi**
4. **Turn right, head south on S Howard Ave for 0.1 mi**

*Point will be to the west of S Howard Ave and north of a rail road track*

## Entered By: W. Harrison

## Checked By: G. Davis
# SJRRP Geodetic Control Network

**Date:** 12/27/2011  **Survey Date:** 11/30/2011  
**City:** El Nido  
**County:** Merced  
**State:** California

**Final Adjusted Coordinates**

- **Datum:** NAD83 (Stat. GPS)  
- **Epoch:** 2007.00
- **Latitude (DMS):** N 37° 11’ 0.01332”  
- **Longitude (DMS):** W 120° 39’ 31.35514”
- **Projection:** State Plane  
- **Zone:** California  
- **Northing (Grid):** 2319104.54 usft.  
- **Easting (Grid):** 6078482.35 usft.

**Datum:** NAVD88 (Stat. GPS)  
**Geoid:** 2003  
**Ortho Height:** 110.75 usft.

**Survey Mark Description**

3” CADWR Brass Disk stamped "9770–172, T 987", set in concrete structure.

**NGS PID:** HS1894

**Go To Directions**

- Starting at the intersection of CA–59 and Sandy Mush Rd north of El Nido, CA
- 1. Head west on W Sandy Mush Rd for 9.4 mi
- *Point will be to the south of W Sandy Mush Rd on the east end of a bridge

**Entered By:** W. Harrison  
**Checked By:** G. Davis
Point Number 156
Point Name W 990 CADWR

Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: El Nido  T: 9S  R: 13E
County: Merced  S: 30
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates

Latitude (DMS): N 37° 06' 48.29962"
Longitude (DMS): W 120° 35' 17.93684"

Projection: State Plane  Zone: California 4
Northing (Grid): 2292291.93 usft.
Easting (Grid): 6098548.56 usft.

Ortho Height: 113.56 usft.

Survey Mark Description


NGS PID: HS1953

Go To Directions

Starting at the intersection of CA–59 and CA–152 south of El Nido, CA

1. Head north on CA–59 for 2.0 mi
2. Turn left, head west on W Washington Rd for 5.3 mi

*Point will be to the south of W Washington Rd on the west end of a bridge

Entered By: W. Harrison
Checked By: C. Davis
Point Number 157
Point Name WILLIAM3
Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Los Banos  Rancho: Sanjon de Santa
County: Merced  Rita
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 37° 02' 01.05436"
Longitude (DMS): W 120° 34' 20.07415"

Projection: State Plane  Zone: California 4
Northing (Grid): 2263167.59 usft.
Easting (Grid): 6102759.09 usft.

Ortho Height: 114.88 usft.

Survey Mark Description
2.5" CADT Aluminum Disk stamped "WILLIAM 3, 2003", set on rod in well.

NGS PID: DH6673

Go To Directions
Starting at the CA–33 / CA–152 split east of Los Banos, CA
1. Head east on CA–152 for 2.3 mi
2. Turn right, head south on Indian Rd for
   0.6 mi
3. Turn left, head east on W Denton / Lake Rd for 0.8 mi
4. Turn right, head southeast on Batten Rd for 0.7 mi

*Point will be to the east of Batten Rd

Entered By: W. Harrison
Checked By: G. Davis
**SJRRP Geodetic Control Network**

**Date:** 12/27/2011  **Survey Date:** 11/30/2011  
**City:** Firebaugh  
**County:** Madera  
**State:** California  
**Datum:** NAD83 (Stat. GPS)  
**Projection:** State Plane Zone: California 4  

**Final Adjusted Coordinates**

- **Latitude (DMS):** N 36° 51’ 27.75766”  
- **Longitude (DMS):** W 120° 23’ 27.10634”  
- **Northing (Grid):** 2199310.18 usft.  
- **Easting (Grid):** 6154768.96 usft.  

**Datum:** NAVD88 (Stat. GPS)  
**Geoid:** 2003  
**Ortho Height:** 150.68 usft.  

---

**Survey Mark Description**

*MAG Nail and Washer stamped "RBF CONTROL", set in roadway.*

---

**Go To Directions**

Starting at the intersection of CA–33 and 13th St in Firebaugh, CA

1. Head northeast on 13th St for 3.6 mi
2. Turn right, head south on Rd 8 1/2 for 320 ft

*Point will be on the west side of Rd 8 1/2*

---

**Entered By:** W. Harrison  
**Checked By:** G. Davis
## Point Number 158
### Point Name RBF1026

**Control Point Data Sheet**

### SJRRP Geodetic Control Network

<table>
<thead>
<tr>
<th>Obstruction Plot</th>
<th>Site View</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Obstruction Plot" /></td>
<td><img src="image" alt="Site View" /></td>
</tr>
</tbody>
</table>

### Vicinity Map

![Vicinity Map](image)

---

**MP220 — Surveys and Mapping Branch**  
2800 Cottage Way, W2922, Sacramento, CA 95825–1886  
916.978.5306  
Fax 916.978.5345  
www.USBR.gov
Point Number 159
Point Name RBF1027

Final Adjusted Coordinates
Latitude (DMS): N 36° 49' 29.61659"
Longitude (DMS): W 120° 22' 22.16842"

Projection: State Plane Zone: California 4
Northing (Grid): 2186287.79 usft.
Easting (Grid): 6159874.94 usft.

Ortho Height: 151.74 usft.

Survey Mark Description
MAG Nail and Washer stamped "RBF CONTROL", set in roadway.

Go To Directions
Starting at the intersection of CA–33 and 13th St in Firebaugh, CA
1. Head northeast on 13th St for 3.6 mi
2. Turn right, head south on Rd 8 1/2 for 1.5 mi
3. Turn left, head east on Ave 6 for 0.4 mi
4. Turn right, head southeast on Eastside Dr for 1.0 mi

*Point will be on the west side of Eastside Dr

Entered By: W. Harrison
Checked By: C. Davis
Point Number 160  
Point Name RBF1047  
Control Point Data Sheet

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011  
City: Herndon  
County: Madera  
State: California  

Final Adjusted Coordinates

Latitude (DMS): N 36° 49’ 19.99957”
Longitude (DMS): W 120° 08’ 38.74865”

Projection: State Plane  Zone: California 4
Northing (Grid): 2184438.09 usft.
Easting (Grid): 6226802.81 usft.

Ortho Height: 214.36 usft.

Survey Mark Description

MAG Nail and Washer stamped “RBF CONTROL”, set in roadway.

Go To Directions

Starting at the intersection of CA-99 and Ave 7 north of Herndon, CA

1. Head west on Ave 7 for 6.0 mi
2. Turn left, head south on CA-145 for 1.5 mi
3. Turn right, head west on Ave 5 1/2 for 2.2 mi
4. Turn left, head south on Rd 25 for 0.5 mi
5. Turn right, head west on Ave 5 for 2.6 mi

*Point will be in the center of Ave 5

Entered By: W. Harrison  
Checked By: G. Davis
### SJRRP Geodetic Control Network

<table>
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<th>Date: 12/27/2011</th>
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<tr>
<td>County: Merced</td>
<td>R: 13E</td>
</tr>
<tr>
<td>State: California</td>
<td>Meridian: Mount Diablo</td>
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<table>
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<tr>
<th>Final Adjusted Coordinates</th>
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<tbody>
<tr>
<td>Datum: NAD83 (Stat. GPS)</td>
</tr>
<tr>
<td>Epoch: 2007.00</td>
</tr>
<tr>
<td>Latitude (DMS): N 37° 05' 31.70859&quot;</td>
</tr>
<tr>
<td>Longitude (DMS): W 120° 30' 36.84672&quot;</td>
</tr>
<tr>
<td>Projection: State Plane Zone: California 4</td>
</tr>
<tr>
<td>Northing (Grid): 2284179.37 usft.</td>
</tr>
<tr>
<td>Easting (Grid): 6121191.41 usft.</td>
</tr>
<tr>
<td>Ortho Height: 121.97 usft.</td>
</tr>
</tbody>
</table>

### Survey Mark Description

MAG Nail and Washer stamped "RBF CONTROL", set in roadway.

### Go To Directions

Starting at the intersection of CA-59 and CA-152 south of El Nido, CA

1. Head southwest on CA-152 for 1.1 mi
2. Turn right, head north on Coyote Rd for 1.1 mi

*Point will be in the center of Coyote Rd*
<table>
<thead>
<tr>
<th>SJRRP Geodetic Control Network</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date:</strong> 12/27/2011</td>
</tr>
<tr>
<td><strong>Survey Date:</strong> 11/30/2011</td>
</tr>
<tr>
<td><strong>City:</strong> Kerman</td>
</tr>
<tr>
<td><strong>T:</strong> 13S</td>
</tr>
<tr>
<td><strong>R:</strong> 18E</td>
</tr>
<tr>
<td><strong>County:</strong> Fresno</td>
</tr>
<tr>
<td><strong>S:</strong> 18</td>
</tr>
<tr>
<td><strong>State:</strong> California</td>
</tr>
<tr>
<td><strong>Meridian:</strong> Mount Diablo</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Final Adjusted Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Datum:</strong> NAD83 (Stat. GPS)</td>
</tr>
<tr>
<td><strong>Epoch:</strong> 2007.00</td>
</tr>
<tr>
<td><strong>Latitude (DMS):</strong> N 36° 48' 25.22359&quot;</td>
</tr>
<tr>
<td><strong>Longitude (DMS):</strong> W 120° 02' 33.95813&quot;</td>
</tr>
<tr>
<td><strong>Projection:</strong> State Plane</td>
</tr>
<tr>
<td><strong>Zone:</strong> California 4</td>
</tr>
<tr>
<td><strong>Northing (Grid):</strong> 2178561.25 usft.</td>
</tr>
<tr>
<td><strong>Easting (Grid):</strong> 6256399.76 usft.</td>
</tr>
<tr>
<td><strong>Datum:</strong> NAVD88 (Stat. GPS)</td>
</tr>
<tr>
<td><strong>Geoid:</strong> 2003</td>
</tr>
<tr>
<td><strong>Ortho Height:</strong> 249.67 usft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Survey Mark Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAG Nail and Washer stamped &quot;RBF CONTROL&quot;, set in roadway.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Go To Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Starting at the intersection of CA–145 and CA–180 in Kerman, CA</strong></td>
</tr>
<tr>
<td>1. Head north on CA–145 for 5.0 mi</td>
</tr>
<tr>
<td>2. Turn right, head east on W Shaw Ave for 1.0 mi</td>
</tr>
<tr>
<td>3. Turn right, head south on N Goldenrod Ave for 250 ft</td>
</tr>
</tbody>
</table>

*Point will be in the center of N Goldenrod Ave*

| Entered By: W. Harrison       |
| Checked By: G. Davis          |
**SJRRP Geodetic Control Network**

Date: 12/27/2011  Survey Date: 11/30/2011  
City: Rolling Hills  
County: Madera  
State: California  
T: 12S  
R: 20E  
S: 9  
Meridian: Mount Diablo

---

**Final Adjusted Coordinates**

Latitude (DMS): N 36° 53' 50.95200"  
Longitude (DMS): W 119° 47' 25.89286"  
Projection: State Plane  
Zone: California 4  
Northing (Grid): 2210796.56 usft.  
Easting (Grid): 6330511.64 usft.  
Ortho Height: 372.88 usft.

---

**Survey Mark Description**

2" CADWR Brass Disk stamped "HELMER, 2008", set in concrete structure.

---

**Go To Directions**

Starting at the intersection of CA-41 and Ave 12 north of Rolling Hills, CA

1. Head south on CA-41 for 1.8 mi  
2. Turn right, head southwest on Exit 138 for 0.4 mi  
3. Turn left, head northeast on California 41 Business for 0.4 mi  

*Point will be on the north in northeast corner of paved turn around area

---

**Entered By:** W. Harrison  
**Checked By:** G. Davis
Point Number 166
Point Name KRUGER

SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Stevinson  T: 7S  R: 10E
County: Merced  S: 24
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 37° 18' 46.91344"
Longitude (DMS): W 120° 49' 35.02301"

Projection: State Plane  Zone: California 4
Northing (Grid): 2366194.68 usft.
Easting (Grid): 6030519.73 usft.

Ortho Height: 91.14 usft.

Survey Mark Description
2" CADWR Brass Disk stamped "KRUGER, 2008", set in concrete structure.

Go To Directions
Starting at the intersection of CA–140 and CA–165 south of Stevinson, CA
1. Head east on CA–140 for 1.4 mi
*Point will be on the north of CA–140 near a guard rail

Entered By: W. Harrison
Checked By: C. Davis
SJRRP Geodetic Control Network

Date: 12/27/2011  Survey Date: 11/30/2011
City: Stevinson  T: BS  R: 10E
County: Merced  S: 6
State: California  Meridian: Mount Diablo

Final Adjusted Coordinates
Latitude (DMS): N 37° 15' 49.56903"
Longitude (DMS): W 120° 54' 22.15864"

Projection: State Plane  Zone: California 4
Northing (Grid): 2348711.58  usft.
Easting (Grid): 6006971.18  usft.

Ortho Height: 74.31  usft.

Survey Mark Description
3” USGS Brass Disk, set in concrete structure.

Go To Directions
Starting at the intersection of CA–140 and CA–165 south of Stevinson, CA

1. Head west on CA–140 for 6.1 mi
2. Turn left, head east on unpaved road for 500 ft
**Pass through gate via access provided by Fish and Wildlife
3. Head east on main unpaved road for 3.0 mi
*Point will be to the north of the unpaved road on the east end of a bridge

Entered By: W. Harrison
Checked By: C. Davis