



(GSP_SM_MAY 2021_GENERAL SOQ)

STATEMENT OF QUALIFICATIONS

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INTRODUCTION

GSP Consulting and Synergy Mapping are privately owned professional consulting and geospatial firms which offer comprehensive aerial mapping services throughout the United States. Our team members collectively have over 85 years of experience in the surveying and mapping industry and have been involved with numerous mapping projects from small land development projects to large county wide GIS projects. The closely controlled structure of GSP Consulting and Synergy Mapping ensure the superior quality of its products and services, each of which is tailored to meet the individual client's specific requirements.

Through our core values of professionalism, innovation, and integrity, GSP Consulting and Synergy Mapping provide superior mapping services utilizing the most advanced technology in a cost-effective manner while providing superior customer service. Customer service and satisfaction is our #1 goal. (We measure our success by the success of our clients!)

B. PROFESSIONAL SERVICES

GSP Consulting and Synergy Mapping provide a wide range of photogrammetric services for a diverse clientele including: Surveying, Engineering, Land Planning, Land Development, Federal, State, County and Municipal Governments and Mining. Our extensive network of aerial photographers, compilers, editors, computer programming specialists and AutoCAD technicians allows us to deliver solutions through the most accurate, timely and cost-efficient methods. Some of our services include:

- Consulting
- Aerial Photography
- LiDAR
- Precision Film Scanning
- Digital Aerotriangulation
- Digital Mapping
- DTM's and DEM's
- Orthophotography
- GIS Data Integration

C. ADVANCED TECHNOLOGY

GSP Consulting and Synergy Mapping have invested in state-of-the-art photogrammetric equipment that allows the production process to perform in a totally digital environment. Our dedication to staying at the forefront of technology allows us to offer cost effective mapping solutions and prompt production schedules. Some of our advanced mapping hardware and software include:

- DAT/EM Summit Evolution Soft Copy Systems
- DAT/EM Ortho Rectification Software
- INPHO Match-AT
 - ▶ Automatic Aerotriangulation
- INPHO Match -T
 - ▶ Automatic DTM Extraction
- (4) Digital Photogrammetric Workstations
- OrthoVista - Advanced Image Processing
- MicroStation
- AutoCAD

Aerial Photography Equipment: (Sub Contract)

3 Cessna 310's, 2 Cessna 320's – 1 Aero Commander – 1 Cessna 208 – 1

Cessna 206

1 Wehrli RM6 Film Scanner

Zeiss Top 15 with FMC (Forward Motion Compensation) & Gyro Stabilized

Mount, Leica RC 30 with FMC and Gyro Stabilized Mount, ULTRACAM

Falcon and UltracamEagleM3 (Digital Cameras & Sensors)

Versamat Film Processor

D. PROJECT EXPERIENCE

GSP Consulting and Synergy Mapping have a broad range of experience on a variety of mapping projects. Over the years Synergy Mapping has successfully delivered thousands of square miles of planimetric and topographic mapping, digital orthophotos, and GIS data to a variety of clients. Since joining forces with Synergy Mapping, GSP Consulting and Synergy Mapping have successfully completed over 900 projects in Nevada and California. The following is an overview of some recent projects that we have completed. (For a more detailed list of projects and client references please contact me.)

Maverick Project (LiDAR & Photogrammetry) Palm Springs, CA (2020)

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping, Lidar and digital orthophotography for the Maverick Mapping & Lidar Project. The project encompassed 1770 acres. We provided color aerial photography flown at a scale of 4.5 cm GSD – 8 PPSM LiDAR, scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping and Digital Terrain Modeling (DTM) supporting 1"=40' map with 1' contours, Lidar LAS/LAF Point Clouds and color aerial digital orthophotos (0.25' pixel resolution). Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

RDO Topo Project (LiDAR & Photogrammetry) Sacramento, CA (2020)

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping, Lidar and digital orthophotography for the RDO Topo Mapping & Lidar Project. The project encompassed 12100 acres. We provided color aerial photography flown at a scale of 4.5 cm GSD – 8 PPSM LiDAR, scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping and Digital Terrain Modeling (DTM) supporting 1"=40' map with 1' contours, Lidar LAS/LAF Point Clouds and color aerial digital orthophotos (0.25' pixel resolution). Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

Greenbriar Project Sacramento, CA (2020)

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Greenbriar Mapping Project. The project encompassed 410 acres. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

SR 41 Project Fresno, CA (2019)

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the State Route 41 Mapping Project (CALTRANS Specs). The project encompassed 1000 acres – corridor mapping. We provided color aerial photography flown at a scale of 4.5 cm GSD, scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

Hiddenbrooke Golf Course Project Vallejo, CA (2020)

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Hiddenbrooke Golf Course Mapping Project. The project encompassed 315 acres. We provided color aerial photography flown at a scale of 4.5 cm GSD, scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

Rough and Ready Island Stockton, CA (2020)

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Rough and Ready Island Mapping Project. The project encompassed 570 acres. We provided color aerial photography flown at a scale of 4.5 cm GSD, scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAPS)

NNCC Project (Northern Nevada Correctional Center) Carson City, NV (2020)

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the NNCC Mapping Project. The project encompassed 900 acres. We provided color aerial photography flown at a scale of 4.5 cm GSD, scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAPS)

Hidden Valley Project Reno, NV (2020)

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Hidden Valley Mapping Project. The project encompassed 375 acres. We provided color aerial photography flown at a scale of 4.5 cm GSD, scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAPS)

**River Islands Project
Lathrop, CA (2019 & 2020)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the River Islands Mapping Project. The project encompassed 3100 and 345 acres. We provided color aerial photography flown at a scale of 4.5 cm GSD, scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**Santa Clara Landfill
Santa Clara, CA (2019)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Santa Clara Landfill Mapping Project. The project encompassed a 350 acres. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping, contact prints, PDF's of the mapping and Digital Terrain Modeling (DTM) supporting 1"=40' map scale with 1' contours and color aerial digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**Aspen Creek Project
Dayton, NV (2019)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Aspen Creek Mapping Project. The project encompassed 510 acres. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**Rubita – Boron Project
Boron, CA (2019)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Rubito - Boron Project. The project encompassed 1280 acres. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping and Digital Terrain Modeling (DTM) supporting 1"=40' map scale with 1' contours and color aerial digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAP)

**Park City (Lidar & Photogrammetry)
Park City, UT (2018)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping, Lidar and digital orthophotography for the Park City Mapping & Lidar Project. The project encompassed 8900 acres for the 100 Sc. 2' CI area and 900 acres for the 40 Sc. 1' CI area. We provided color aerial photography flown at a scale of 4.5 cm GSD – 8 PPSM, scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping and Digital Terrain Modeling (DTM) supporting 1"=100' map scale with 2' contours and 1"=40' map with 1' contours, Lidar LAS/LAZ Point Clouds and color aerial digital orthophotos at a 0.50' & 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAP)

**Lost Canyons
Simi Valley, CA (2018)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Lost Canyons Mapping Project. The project encompassed a 2130 acres. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping and Digital Terrain Modeling (DTM) supporting 1"=40' map scale with 1' contours, and color aerial digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAP)

**Tesoro TM Base
Valencia, CA (2018)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Tesoro TM Base Mapping Project. The project encompassed 800 acres. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map Scale and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**Reno Tahoe International Airport (RTIA)
Reno, NV (2018)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the RTIA Mapping Project. The project encompassed approximately 1080 acres. We provided color aerial photography flown at a scale of 1"=166' (1:2000), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping and Digital Terrain Modeling (DTM) supporting 1"=20' map scale with 0.5' contours, and color aerial digital orthophotos at a 0.15' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**Truckee Meadows Water Resources (TMWRF)
Reno, NV (2018)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the TMWRF Mapping Project. The project encompassed a corridor 17.3 miles long – 200' wide corridor. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**Solano State Prison
Vacaville, CA (2018)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Solano State Prison Mapping Project. The project encompassed 292 acres. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**City of Yerington
Yerington, NV (2017)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the City of Yerington, NV Mapping Project. The project encompassed 1300 acres. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping and Digital Terrain Modeling (DTM) supporting 1"=40' map scale with 1' contours, and color aerial digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**Floriana Ranch
Gilroy, CA (2017)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Floriana Ranch Mapping Project. The project encompassed 2800 acres (Mapping) – 4800 acres (Orthos) located 6 miles south of Gilroy, CA. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**Dayton Waterline
Dayton, NV (2016)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Dayton Waterline Mapping Project. The project encompassed a 300 acres. (400' and 1000' corridor mapping on Highway 50. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping and Digital Terrain Modeling (DTM) supporting 1"=40' map scale with 1' contours, and color aerial digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

**Dayton Project
Dayton, NV (2018)**

GSP Consulting and Synergy Mapping were contracted to acquire aerial photography and produce design scale topographic mapping and digital orthophotography for the Dayton Mapping Project. The project encompassed 540 acres located in Dayton, NV. We provided color aerial photography flown at a scale of 1"=300' (1:3600), scanned imagery at 14 microns, digital aerial triangulation, planimetric mapping supporting 1"=40' map scale with 1' contours and color digital orthophotos at a 0.25' pixel resolution. Mapping data was delivered ahead of schedule in AutoCAD format and conformed to National Map Accuracy Standards. (NMAS)

F. KEY PERSONNEL

Ladyn S. Kent “Laddie”

Vice President
Synergy Mapping

Experience and Qualifications

Ladyn Kent, co-founder and Vice President, has been with Synergy Mapping since its inception in March of 2008. Previously he was instrumental in the growth and success of two large mapping companies in the Western US.

Mr. Kent has spent 37 years in the field of photogrammetry working in every aspect of the industry and is a Certified Photogrammetrist with The American Society for Photogrammetry and Remote Sensing (ASPRS). He has extensive experience in planning and implementing mapping operations from the small several acre sites, to countywide GIS mapping projects. Responsibilities encompass project proposals, contract negotiations, accuracy specifications, project initialization and management, flight and survey planning, aerotriangulation, compilation, digital editing, client computer compatibility requirements, quality control, and customer satisfaction. He is constantly keeping abreast of the rapidly changing field of photogrammetry and has undergone extensive training in the latest technologies in implementing and support of Geographical Information Systems.

Gary S. Poland

President
GSP Consulting

Experience and Qualifications

Gary Poland formed GSP Consulting in February of 2013. He has resided in the Reno/Sparks area since 1990 and he has been active in the photogrammetry industry since 1984. Previously he was instrumental in the growth and success of several large mapping companies in the area serving as general manager, project manager, complier and editor.

Mr. Poland studied Geological Engineering and Geology at South Dakota School of Mines and Technology in Rapid City, SD before receiving a Bachelor of Science Degree in Geography with a Minor in Computer Science from South Dakota State University in Brookings, SD. He is a member of the American Society for Photogrammetry and Remote Sensing (ASPRS), The Nevada Association of Land Surveyors (NALS), the California Land Surveyors Association (CLSA), and the Geological Society of Nevada. (GSN) His duties include business development and marketing, proposals, flight layouts, client communication, surveyor communication, orthophoto production, AutoCAD translations and quality control accuracy processing. He has a vast knowledge of multiple mapping and hardware systems. Having spent over 35 years in the industry including compilation, editing, camera operation, aerotriangulation, project initialization and management, flight and survey planning, quality control and customer satisfaction, his expertise brings much to the table. His ability to keep lines of communication open at all times coupled with his knowledge of the industry and details of each project allow him to stay in tune with all of the client's specifications and needs.

(Client References Available Upon Request)

