



# Overview of *Surveyor's Office* 2022 Budget

Presented October 19, 2021

# INTRODUCTION

Salt Lake County Surveyor's Office provides numerous statutory and professional services to the County and public. Additionally, a priority is placed on promoting efficient use of the office as a Countywide resource. The Surveyor's Office utilizes specialized technological infrastructure and a number of shared Countywide IT resources to provide services.

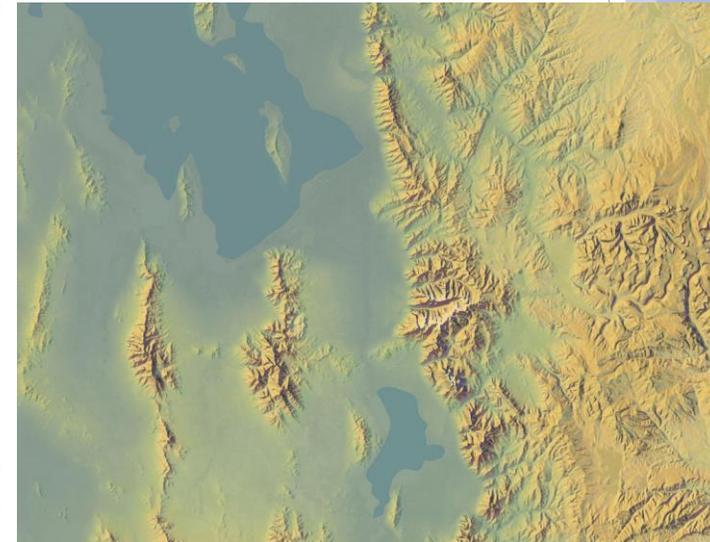
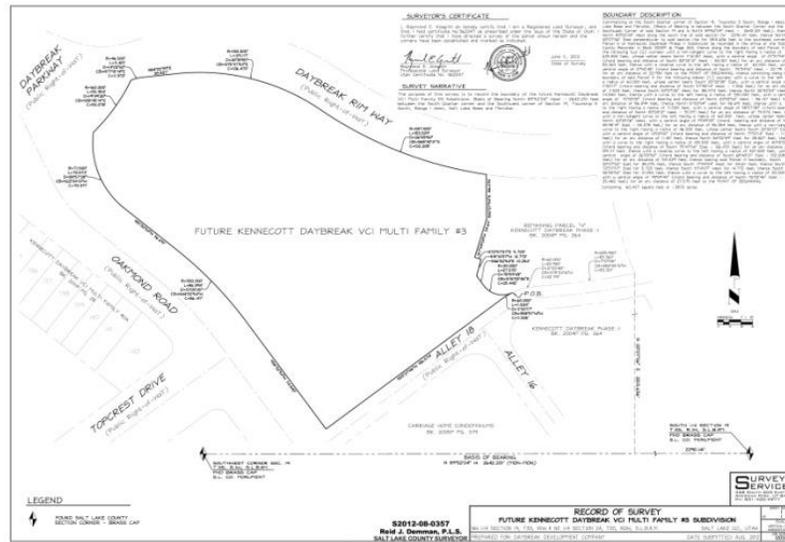
## 2022 Proposed Adjusted Base Budget - \$3,619,000

Surveyor's budget is funded by both the Tax and General Fund, 18% and 82% respectively.

- ▶ Categorical breakdown of the Surveyor's budget is:
  - ▶ 84% Personnel
  - ▶ 10% Operations
  - ▶ 6% Indirect Costs

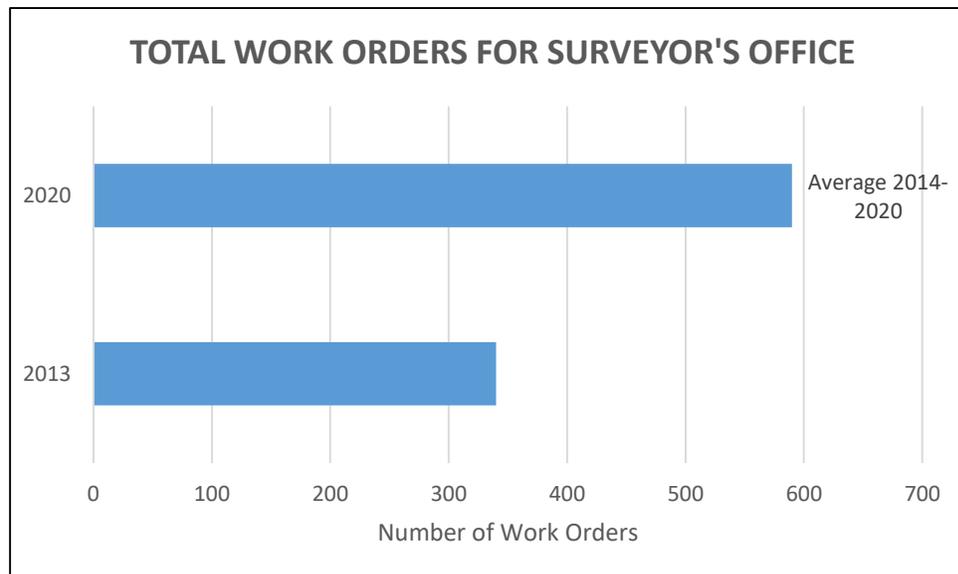
# PRIMARY STATUTORY FUNCTIONS

- ▶ Maintain Public Land Survey System (PLSS)
- ▶ Perform or arrange for all survey work for the County
- ▶ Review, maintain and make available to the public all private survey records
- ▶ Provide maps to County offices



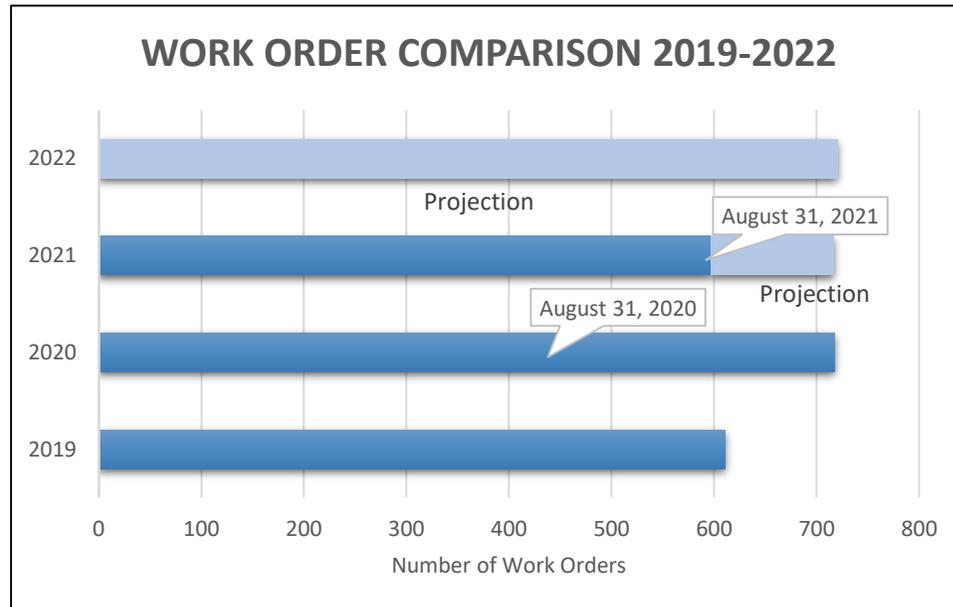
# PERFORMANCE MEASUREMENT 2013-2020

- ▶ A key performance measure is the number of work order requests from both the public and government entities. Since year ending 2013 through 2020, the Surveyor's Office has averaged 590 work order requests per year, which reflects a 72% increased use of Surveyor's resources.



# 2022 WORKLOAD PROJECTIONS

2020 Work requests increased 15% above 2019's total. As of September 1, work requests are 20% above 2020's requests at the same point in time. We are estimating 2021 work requests will remain consistent with where we ended 2020 due to high demand on resources during the Fall construction season.\*\*\* We are projecting a 1.5% increase for 2022. This projection is based on the strong construction and development trends and additional workload related to new state code and the County monument permit ordinance (Ord. No.1874).



\*\*\*The Fall months typically realize large increases in workload due to the construction industry push to complete projects prior to winter.

# 2021 PROJECTS OF INTEREST

- Sidewalk Collector App
- Validating VISTA Addresses for Voter Ballots
- Clerk's Office Redistricting Collaboration
- Noxious Weed Collector App
- UFA Collaborations
  - Transition to Survey123 to Automate the Fire Prevention Tracking System
  - GIS Mapping Support
- COVID Testing Sites Web Map
- Homeless Point in Time (PIT) Count App
- Drone Flights to Identify Homeless Encampments
- FCOZ Maps
- Map Requests for Streets and Historical Data
- Recorder's Office Subdivision Plat Checking Collaboration
- Final Local Entity Plats
- Surplus Canal Property Collection and Staking
- Jordan River Canal and Portages
- Assessor's Office Collaboration to Map Greenbelt Parcels
- Aerial Project Collaboration with Assessor
- Human Services Dept Collaboration to Map Crime Incidents
- County Library Collaborations
  - Map Locations and Patron Usage
  - Viridian Center Virtual 3D Facilities Tour
  - Drone Video Tours and Photos of County Libraries
- 47 Development Projects Resulting in 239 New Monuments Added to the PLSS
- New Monument Permit Ordinance (Ord. No. 1874)

# 2021-2022 CHALLENGES

## Recruiting and Retention of High Performing Employees

- ▶ The Surveying / Engineering job market has exploded. Salary surveys reflect wages have steadily increased due to demand.
- ▶ Currently there is a shortage of skilled technicians and professionals making the job market extremely competitive.
- ▶ Our employees are being recruited with offers of higher salaries and enhanced benefits.
- ▶ Retention of existing employees and the recruiting of new talent is becoming increasingly difficult.
- ▶ The loss of high performing employees is / would be detrimental to operations and to the county.

# 2021-2022 CHALLENGES

## Maintenance on Public Land Survey System (PLSS)

- ▶ *There are 22,000 existing PLSS and accessory monuments that we currently maintain. Approximately, 4,000 of which are on a 5 year rotation for maintenance. The remaining 18,000 are on a 7 year rotation. Maintenance of the system has fallen behind due to difficulties related to COVID-19 and staffing shortages.*
- ▶ With fully staffed survey crews, these numbers reflect it will take us approximately 7 years to bring our PLSS maintenance back on schedule.
- ▶ In keeping with the plan as reflected above, the 2021 goal was to perform maintenance on 4,000 PLSS corners. Our plan is to put forth aggressive efforts towards this goal during the colder months as construction slows down.
- ▶ The County Surveyor's Office has 11 field crew FTEs to perform all field survey work for Salt Lake County projects, in addition to tracking construction, maintaining and protecting the PLSS on UDOT and municipal (23 municipalities) projects.

# 2021-2022 CHALLENGES

## NGS/USGS Project 2022 Datum Update

*The Federal Government is implementing a complete replacement of the existing horizontal and vertical datums known as NAD 83 and NAVD 88 with the North American-Pacific Geopotential Datum of 2022 (NAPGD2022). This replacement has been deemed necessary by the Federal Government to adjust and account for unchecked physical movement in the Earth's surface, geoid undulations, and gravitational anomalies in conjunction with Global Positioning Systems (GPS).*

- ▶ All federal civilian agencies are required to update to NAPGD2022.
- ▶ The State of Utah is planning to follow suit in updating to NAPGD2022.
- ▶ There will be legislative action to update the definition of the Utah Coordinate System (UC 57-10-6) to conform with NAPGD2022.
- ▶ As a result, the County will be required to migrate to the new system.
- ▶ Effects on mapping, property boundaries, and the PLSS are significant.

**\*\*\*This is an unfunded Federal mandate which places additional burden on County Surveyor's field and office operations.**



# WHAT IS INVOLVED WITH MIGRATING TO NAPGD2022 ?

## Adjustments have to be made to the existing coordinates of the PLSS

- ▶ The adjustments are not uniform and vary from zone to zone and sometimes point to point.
- ▶ These adjustments will be labor intensive.
- ▶ Will likely require additional field observation.
- ▶ Coordination with state and federal government is necessary.

**WE HAVE TO GET IT RIGHT!**



# 2022 Budget Proposal

## June 2020 COVID Budget Cuts Timeline

- ▶ June 2020 - 18.5% was cut from Surveyor's operating budget in response to the COVID-19 pandemic emergency (\$66,500).
- ▶ County Council restored 67% of that cut with the approval of the 2021 budget (\$44,900).
- ▶ June 2021 - County Council restored an additional 8% of the COVID cuts with the approval of the June budget adjustment (\$5,400).

# BUDGETING

## 2022 Projected Budgeting Consideration

- ▶ Proposed Budget Requests include:
  - ▶ Reinstatement of the remaining 25% of the June 2020 COVID cuts to the operating budget (\$17K), including:
    - ▶ Gasoline due to price increases
    - ▶ Maintenance of Office Equipment
    - ▶ Computer Supplies for outdated equipment
    - ▶ Other miscellaneous items
  - ▶ Increase temp hourly rate from \$12 to \$18 to remain competitive with the market totaling \$8,000.



2022 Proposed Adjusted Base Budget - \$3,619,000

