

For Committee Use	Only
Application No.	
Date Filed:	

GRANT APPLICATION

Applicant information								
Applicant agency	Cache C	ounty						
Street	179 N. M	ain St						
City	Logan		State	UT	Zi	ip	84321	
Contact person	Cary Jen	kins						
	435-755-				Fax			
Email	cary.jenkins@cachecounty.org							
Presiding official	Matt Phillips							
	Public Works Director							
Phone	435-755-1639							
Email	matt.phillips@cachecounty.org							
Project surveyor	ect surveyor Jeff Nielson							
	435-753-1910							
Email	jeff@foresightsurvey.com							
Proposed Funding								
Total project cost		\$14,000						
Total MRRC funds requested		\$12,000						
Other project funding (specify)		\$2,000 in-kind						

Attachment checklist

- 1. Description of the problem or situation to be addressed and how the proposed project will remedy the problem. A superior project description will thoroughly address each category of the Committee's Evaluation Criteria.
- 2. Map of the project area.
- 3. Cost estimate. Itemization of expenditures is encouraged. Include cost sharing if applicable.

Presiding official signature					
, Matt Phillips	, the Public Works Director				
(typed name)	(typed title)				
of Cache County Corp.					
(typed name of applicant agency)					
do hereby certify the information in this application is accurate and correct to the best of my knowledge					
and this application has been authorized by the applicant agency.					
Matt Phillips Digitally signed by Matt Phillips DN: cn=Matt Phillips, o, ou, email=matt.phillips@cachecounty.org, c=US Date: 2023.05.26 11:30:12 -06'00'	5/26/2023				
(signature)	(date)				



BUILDING | SURVEYING | ENGINEERING | GIS | PLANNING & ZONING | ROADS | WEEDS

CACHE COUNTY SECTION CORNER PROJECT

A GRANT PROPOSAL TO: State of Utah Monument

Replacement and Restoration Committee (MRRC)

APPLICANT: Cache County, Utah

DATE: 5/25/2023

CACHE COUNTY SECTION CORNER PROJECT

SUMMARY

Cache County developed a monument preservation program where valley floor monuments are given the highest priority. The valley floor reflects where most of our growth is occurring. While in recent years past the County has worked heavily within Priority 2A (*Image 1*), our mountainous region, the County feels it's important to pay attention to the mountainous region once again due the development and growth we have has seen over the last few years. With the help of monies from the Survey Monument Replacement and Restoration County Grant Program, Cache County would be able to accomplish significant monument preservation and locating in our Priority 2A (*Image 1*) area.

THE PROBLEM

Cache County has identified 8 corners where we have no coordinate data however surveyors are tying to these corners. We also have 3 original stones that need preservation. With continued development pressures and current development applications the county needs to preserve and validate these corners to facilitate the growth. Goals we hope to accomplish with this grant is to tie down monuments to facilitate future surveying of county roads within the Birch Canyon area and to preserve found original stones.

Our focus with this grant is located in the mountainous and bench areas throughout valley. It's in the County's best interest to get these corners established before more growth and larger disputes begin to happen. Researching, verifying and reestablishing these corners will allow us to properly monument and produce tie sheets with measured latitudes and longitudes preserving the corners in the long term.

THE WORKFLOW

Jeff Nielson P.L.S. of Foresight Surveying will turn in corner data, set forth in "Attachment C Field Procedures" of the Public Land Survey System (PLSS) Grant Program to the County's GIS division. The GIS division will be responsible for creating the corner tie sheets See: Image 2: Tie Sheet 574. Corner tie sheets meet and will continue to meet tie sheet standards set forth in "Attachment D" of the Public Land Survey System (PLSS) Grant Program. Corner tie sheets are then published to the public via the County's Section Corner & Survey Web Mapping Application (https://gis.cachecounty.org/websites/surveyviewer/).

OUR GOALS

Cache County has already made significant improvements on perpetuation and preservation within the valley floor. Cache County has used its own funds to complete perpetuation of monuments already existing on the valley floor. Once existing corners have been perpetuated, the focus will shift to locating corners with limited to no data and/or tie sheet within our Priority Areas 1B and 2B.

- 1. Complete Priority 1A Existing section corners on the valley floor in need of perpetuation
 - a. Perpetuation Completed = 914
 - b. Needs to be Perpetuated = 201*
- 2. Priority 1B General area of the valley floor where section corners have not as of yet been located and limited to no data exists. Unknown count of section corners that can be reasonably placed (limitations of data, accessibility and usefulness)
- 3. Priority 2A Existing section corners in the mountainous areas in need of perpetuation
 - a. Perpetuation Completed = 148
 - b. Needs to be Perpetuated = 857*
- 4. Priority 2B General area of the mountainous areas where section corners have not been located and limited to no data exists. Unknown count of section corners that can be reasonably placed (limitations of data, accessibility, and usefulness)

OUR GOAL FOR THE 2024 GRANT

- 1. Priority 2A Existing section corners near private land holdings adjacent to public lands
 - a. Perpetuate with 2024 grant = 11

BUDGET

It is estimated that these 11 section corners within Priority 1A and 2A can be perpetuated. The County estimates this can be accomplished at a cost near \$14,000.00.

Priority 1A/2A: Existing damaged/missing corners requiring additional repairs

Materials

- 1. 4 Rebar Reference Points \$1.67 each (\$6.68)
- 2. 4 plastic caps \$0.26 each (\$1.04)
- 3. Aluminum survey caps \$9.80 each
- 4. Aluminum survey Monument Domed Cap \$62.50 each

Materials total \approx \$80.02 per corner depending what cap is set.

^{*}note: the above "needs to be perpetuated" numbers will fluctuate as more once unknown/missing corners are included.

Labor

1. Surveying work, data compilation and record of surveys tied to corners research ≈ 10 hours each = \$1,192.70

Materials and Labor Total = \$1,272.72 per corner.

This project is scalable to the amount of funding made available (more section corners can be added with additional funding and/or less corners with less funding).

County Resources/Match

The County is also putting financial and in kind effort into this project and request. While Cache County is seeking funds to finalize perpetuation of monuments in Priority 1A, the County has allocated funding to 1) pay unique material costs for Priority 1A (concrete, flow able fill, etc.) and 2) in kind staff time for tie sheet creation and 3) cash match.

- 1. Tie sheet preparation 11 $@\approx 1$ hour each @\$40.00 per hour = \$440.00 (in kind)
- 2. Cash contribution \$1,560 + out of pocket expense for unique materials

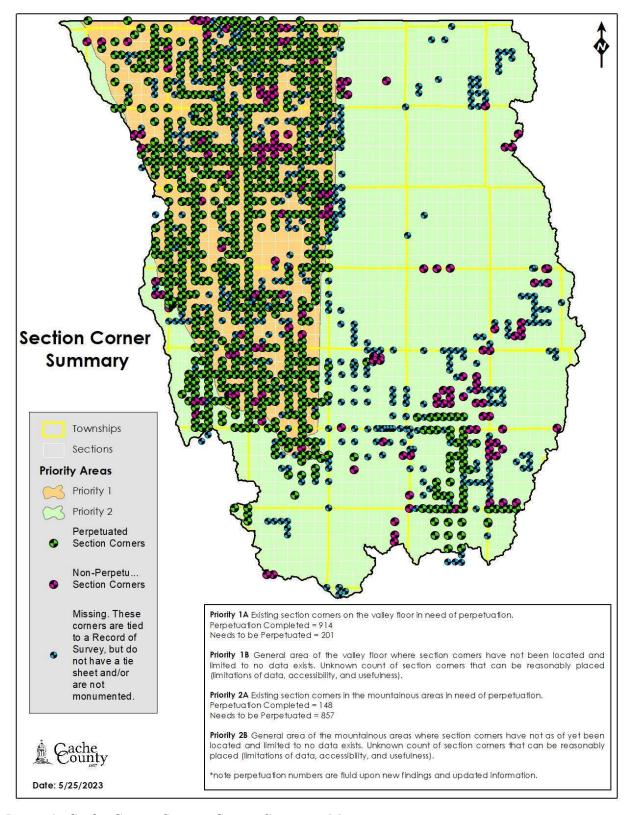
Match Total = \$2,000.00

For this round of funding Cache County is hoping to perpetuate 11 section corners (*See Image 3: Section Corner Project Area Map*)

The estimated total cost to complete perpetuation on these 11 section corners is \approx \$14,000.00.

CONCLUSION

Cache County has made significant improvements to existing section corner data and tie sheets among the valley floor. The *Cache County Section Corner & Survey Web Mapping Application* is one of the County's most popular and useful tools to surveyors, realtors, title companies, cities, and the general public. As the County transitions into a more financially burdensome phase of the project the requested financial assistance will greatly improve the project's success. The County hopes to provide the PLSS with better quality section corner data as well as create an environment to receive higher quality land surveys and avoid property disputes.



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Image 1: Cache County Section Corner Summary Map



Cache County

Cache County Corner ID # 574

Monument Record Sheet

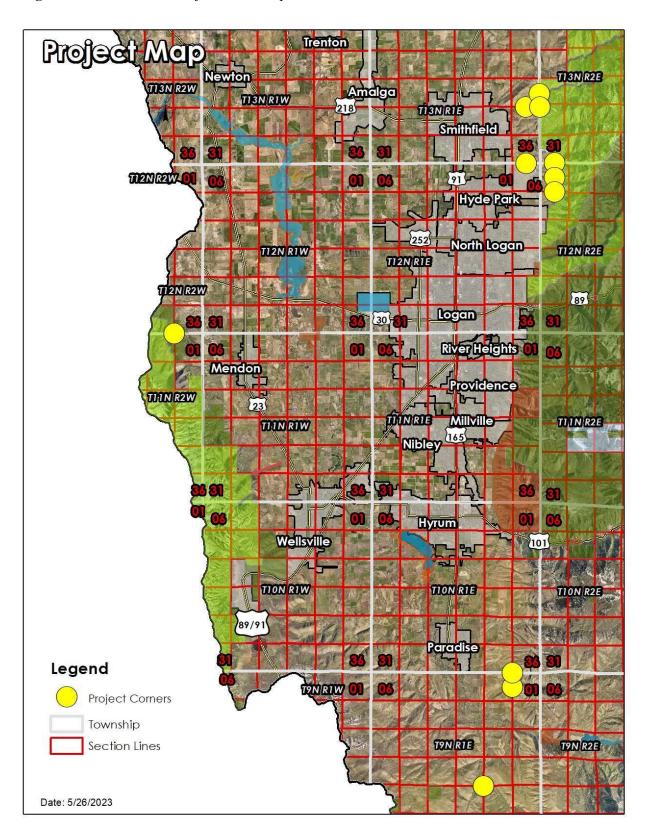
BLM Point Name		Contact Name	License Number	Date	
UT260140N0010W	/0_300400	Jeff C. Nielsen	5152661	2/27/2015	
Corner of Section		Map View Photo or Sketch	1		
300400			870		
Township and Rang	je				
T14N R1W					
Base and Meridian					
Salt Lake					
State C	County		574		
UT	Cache County		678		
Geographic Coordin			* 4		
Latitude (DMS)	41°56'47.4138"N				
Longitude (DMS)	-111°58'23.5956"W		Mo		
Ellipsoid Height			260		
Grid Coordinates			n a		
Northing	3868950.9340				
Easting	1511674.9840				
Horizontal Units	feet				
Ortho Elevation	4558.135				
Coordinate System	Zone				
NAD83 State	UT North	N	875		
Plane	O T North				
D. I		Monument Area Photo	Monument Clo	ose-up Photo	
Datum				or the second	
WGS84 Vertical Units					
12A					
Vertical Datum				MOSSET X SHARINS SHARING	
NAVD89				Lineal move Walley	
Monument Status					
Existing				The second	
Section Corner Loc	ation			A STATE OF THE PARTY OF THE PAR	
		Additional Notes			
6 5 4 100600 200600 300600 7 8 9 100500 200500 300500 18 17 16	400700 500700 600700 700700 3 2 1 400600 50000 600500 700600 10 11 12 400500 500500 600500 700500 15 14 13	374 3869007.57 151	11653.292 CACHE RBR CAP 1680.266 CACHE RBR CAP 1671.011 CACHE RBR CAP	NELSEN SELLEN	
100400 200400 300400	400400 500400 600400 700400	Monument Description			
19 20 21 100300 200300 100300 3 30 29 28 100200 200200 300200 31 32 33 100100 200100 300100 3	22 23 24 400300 500300 600300 27 26 25 400200 500200 600200 34 35 36 400100 500100 600100 700100		stic cap on 5/8" rebar, 12" b set RPs 1,2&3 with 5/8" x 24" i		
17					

Image 2: Tie Sheet 574

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Image 3: Section Corner Project Area Map



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