



March 29, 2024

Arizona Department of Transportation  
Engineering Consultants Section  
205 S. 17th Avenue, Mail Drop 616E  
Phoenix, Arizona 85007

**RE: : 2024-016 On-Call Right of Way Surveys, Right of Way Plans and Monumentation Surveys**

Dear Members of the Selection Committee:

Arizona Department of Transportation (ADOT) is seeking qualified consultants to provide On-Call Right-of-Way (R/W) Plans and Survey services to perform R/W field surveys, prepare Results of Survey (ROS), R/W Plans, R/W Exhibits, Legal Descriptions, Initial R/W Staking, Final R/W Monumentation Surveys and Supplemental Surveys.

Ardurra Group Inc. (Ardurra) is excited to provide our statement of qualifications for consideration for this contract. Ardurra has experience in preparing ADOT R/W Plans; diverse experience in field surveys, preparing R/W surveys, analyzing existing R/W; and knowledge of current ADOT R/W Plans policies, standards, and procedures. Ardurra can handle multiple projects simultaneously and meet ADOT deadlines.

Our survey team is led by experienced professionals who are properly registered and vetted. **Karl Obergh, PE, (#34008)** is **Principal** for this on-call contract. His registration with the Board of Technical Registration (BTR) is current. Karl is the Director of Ardurra and is solely responsible for ensuring quality, adequate resources, and schedule commitments. **Jesse Boyd, PE, RLS (PE #55056, RLS#42937)**, our proposed **Project Manager** has more than 24 years of industry experience. Jesse will be ADOT's main point of contact. He will lead our team of skilled professionals to provide ADOT with superior service.

**As an officer of Ardurra, I (Karl Obergh, PE) am responsible for operations in Ardurra's Mountain Region, which includes Arizona.** I understand the importance of this project, and our **key personnel are committed to meeting or exceeding all quality and schedule expectations.** I will serve as the Project Principal and will be responsible for all contractual matters and securing the required team resources. **Ardurra is not a certified DBE;** and while the project is designated Race Neutral, we are committed to contributing to ADOT's overall goal by including certified DBE subconsultants as needed when task assignments are received. We appreciate the opportunity to continue our long-standing relationship by serving ADOT with exceptional survey services. If you have any questions or require additional information related to our proposal, please contact me at 602.263.1177 or kobergh@ardurra.com.

Respectfully,  
**Ardurra Group, Inc.**

Karl Obergh, PE (AZ PE#34008)  
Project Principal/Regional Director

Jesse Boyd, PE, RLS (PE #55056, RLS#42937)  
Project Manager

**WHY ARDURRA?**

**1 » LONG-STANDING RELATIONSHIP WITH ADOT.** Ardurra has won consecutive selections for the ADOT R/W On-Call, leading to more the 32 years of continuous experience. Successful communication, coordination, and cooperation with ADOT have been our keys to success.

**2 » MAINTAINED FOCUS ON ADOT DURING TRANSITION.** Ardurra has maintained our commitment to ADOT by introducing new registered professional surveyors and R/W technicians. During this time of transition and learning, the team focused on three main areas: overall project schedule and structure, drafting standards, and quality of task-specific deliverables. With this focused approach, Ardurra is currently working on 3 ADOT R/W projects.

**3 » AVAILABLE AND COMMITTED RESOURCES.** Ardurra has ADOT-dedicated personnel available to commence work immediately. Our team has recent project knowledge, state-of-the-art equipment, and project management and production skills to continue to successfully fulfill the requirements for this R/W On-Call.



**Surveying is just the first step to design and construction.**



**Engineering Consultants Section  
SOQ Proposal Certifications Form**

Contract #: 2024-016

Consultant Name: Ardurra Group, Inc.

**Please read the fifteen (15) statements below. The statements are to ensure Consultants are aware and in agreement with Federal, State and ECS guidelines related to the award of this contract. Consultants shall submit the specific Certification form attached to each RFQ advertised, as revisions to the form may occur from time to time. Failure to sign and submit the certification form specified in the RFQ with the SOQ proposal will result in the SOQ proposal being rejected.**

**Submission of the SOQ by the Consultant certifies that to the best of its knowledge:**

1.	The Consultant and its subconsultants have not engaged in collusion with respect to the contract under consideration.
2.	The Consultant, its principals and subconsultants have not been suspended or debarred from doing business with any government entity.
3.	The Consultant shall have the proper Arizona license(s) and registration(s) for services to be performed under this contract. Furthermore, the Consultant shall ensure that all subconsultants have the proper Arizona license(s) and registration(s) for services to be performed under this contract.
4.	The Consultant's signature on any SOQ proposal, negotiation document or contract constitutes that a responsible officer of the Consultant has read and understands its contents and is empowered any duly authorized on behalf of the Consultant to do so.
5.	The Consultant's Project Team members are employed by the Consultant on the date of submittal.
6.	All information and statements written in the proposal are true and accurate and that ADOT reserves the right to investigate, as deemed appropriate, to verify information contained in proposals.
7.	Key members of the Project Team, including subconsultants, are currently licensed to provide the required services as requested in the RFQ package.
8.	All members of the Project Team who are former ADOT employees did not have or provide information that gives the Consultant a competitive advantage; and either (1) concluded their employment with ADOT at least 12 months before the date of the SOQ or (2) have not made any material decisions about this project while employed by ADOT.
9.	Work, equating <b>at least 51%</b> of the contract value, shall be completed by the Consultant unless otherwise specified in the SOQ or contract.
10.	No Federally appropriated funds have been paid or shall be paid, by or on behalf of the Consultant for the purpose of lobbying.
11.	The Consultant understands that it is required to have a compliant accounting system, in accordance with Generally Accepted Accounting Principles (GAAP), Federal Acquisition Regulation (FAR) of Title 48, Code of Federal Regulations (CFR)-Part 31, applicable Cost Accounting Standards (CAS), and ADOT Advance Agreement Guideline.
12.	If project is funded with Federal Aid funds, the Consultant affirmatively ensures that in any subcontract entered into pursuant to this advertisement, Disadvantaged Business Enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations.
13.	The Consultant shall utilize all Project Team members, subconsultants and DBE firms, if applicable, submitted in the SOQ, and shall not add other Project Team members or subconsultants, unless the Consultant has received prior written approval from ADOT.
14.	The Consultant shall either meet its DBE goal commitment and any other DBE commitments or make Good Faith Efforts to meet the DBE goal commitments as stated in its SOQ proposal or Cost Proposal and shall report on a timely basis its DBE utilization as detailed in the contract.
15.	If selected, the Consultant is committed to satisfactorily carry out the Consultant's commitments as detailed in the contract and its SOQ proposal.

*I hereby certify that I have read and agree to adhere to the fifteen (15) statements above and/or that the statements are true to the best of my knowledge as a condition of award of this contract.*

Print Name: Karl Obergh, PE Title: Director

Signature:  Date: March 29, 2024

Revised 2/11/2022



**ARIZONA DEPARTMENT OF TRANSPORTATION  
ENGINEERING CONSULTANTS SECTION  
PARTICIPATION IN BOYCOTT OF ISRAEL - CONSULTANT CERTIFICATION FORM  
ADOT ECS Contract No.: 2024-016**

This Certification is required in response to legislation enacted to prohibit the State from contracting with companies currently engaged in a boycott of Israel. To ensure compliance with A.R.S. §35-393, this form must be completed and returned with any response to a solicitation (SOQ), Contract Cost Proposals, and Contract Time Extensions. The Consultant understands that this response will become public record and may be subject to public inspection.

**Please note that if any of the following apply to this Solicitation, Contract, or Contractor, then the Offeror shall select the “Exempt Solicitation, Contract, or Contractor” option below:**

- The Solicitation or Contract has an estimated value of less than \$100,000;
- Contractor is a sole proprietorship;
- Contractor has fewer than ten (10) employees; OR
- Contractor is a non-profit organization.

**Pursuant to A.R.S. §35-393.01, public entities are prohibited from entering into contracts “unless the contract includes a written certification that the company is not currently engaged in, and agrees for the duration of the contract to not engage in, a boycott of goods or services from Israel.”**

Under A.R.S. §35-393:

1. "Boycott" means engaging in a refusal to deal, terminating business activities or performing other actions that are intended to limit commercial relations with entities doing business in Israel or in territories controlled by Israel, if those actions are taken either:
  - (a) Based in part on the fact that the entity does business in Israel or in territories controlled by Israel.
  - (b) In a manner that discriminates on the basis of nationality, national origin or religion and that is not based on a valid business reason.
2. "Company" means an organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, limited liability company or other entity or business association, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate, that engages in for-profit activity and that has ten or more full-time employees.
- ...
5. "Public entity" means this State, a political subdivision of this State or an agency, board, commission or department of this State or a political subdivision of this State.

The certification below does not include boycotts prohibited by 50 United States Code Section 4842 or a regulation issued pursuant to that section. See A.R.S. §35-393.03.

**In compliance with A.R.S. §§35-393 *et seq.*, all offerors must select one of the following:**

- The Company submitting this Offer **does not** participate in, and agrees not to participate in during the term of the contract, a boycott of Israel in accordance with A.R.S. §§35-393 *et seq.* I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
- The Company submitting this Offer **does** participate in a boycott of Israel as described in A.R.S. §§35-393 *et seq.*
- Exempt Solicitation, Contract, or Contractor.**  
Indicate which of the following statements applies to this Contract:
  - Solicitation or Contract has an estimated value of less than \$100,000;
  - Contractor is a sole proprietorship;
  - Contractor has fewer than ten (10) employees; and/or
  - Contractor is a non-profit organization.

<u>Ardurra Group, Inc.</u>				
Company Name			Signature of Person Authorized to Sign	
<u>1001 N. Central Avenue, Suite 900</u>			<u>Karl Oberer, PE</u>	
Address			Printed Name	
<u>Phoenix</u>	<u>Arizona</u>	<u>85004</u>	<u>Director</u>	<u>March 29, 2024</u>
City	State	Zip	Title	Date

Participation in Boycott of Israel – Consultant Certification  
Form Revised - 4/28/2020



## FORCED LABOR OF ETHNIC UYGHURS BAN Certification Form

### Forced Labor of Ethnic Uyghurs Ban

Please note that if any of the following apply to the Consultant, then the Offeror shall select the "Exempt Consultant" option below:

- Consultant is a sole proprietorship;
- Consultant has fewer than ten (10) employees; OR
- Consultant is a non-profit organization.

Pursuant to A.R.S. § 35-394, the State of Arizona prohibits a public entity from entering into or renewing a contract with a company unless the contract includes written certification that the company does not use the forced labor, or any goods or services produced by the forced labor, or use any consultants, subconsultants, or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China.

Under A.R.S. §35-394:

1. "Company" means an organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, limited liability company or other entity or business association, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate, that engages in for-profit activity and that has ten or more full-time employees.
  - (a) Based in part on the fact that the entity does business in Israel or in territories controlled by Israel.
  - (b) In a manner that discriminates on the basis of nationality, national origin or religion and that is not based on a valid business reason.
2. "Public entity" means this State, a political subdivision of this State or an agency, board, commission or department of this State or a political subdivision of this State.

In compliance with A.R.S. §§ 35-394 et seq., all offerors must select **one** of the following:

<input checked="" type="checkbox"/>	The Company submitting this Offer does not use, and agrees not to use during the term of the contract, any of the following: <ul style="list-style-type: none"> <li>• Forced labor of ethnic Uyghurs in the People’s Republic of China;</li> <li>• Any goods or services produced by the forced labor of ethnic Uyghurs in the People’s Republic of China; or</li> <li>• Any Consultants, Subconsultants, or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs in the People’s Republic of China.</li> </ul>
<input type="checkbox"/>	The Company submitting this Offer <b>does</b> participate in use of Forced Uyghurs Labor as described in A.R.S. § 35-394.
<input type="checkbox"/>	<p><b>Exempt Consultant.</b></p> <p>Indicate which of the following statements applies to this Consultant (may be more than one):</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Consultant is a sole proprietorship;</li> <li><input type="checkbox"/> Consultant has fewer than ten (10) employees; and/or</li> <li><input type="checkbox"/> Consultant is a non-profit organization.</li> </ul>

Ardurra Group, Inc.  
Company Name

1001 N. Central Avenue, Suite 900  
Address

Phoenix                      Arizona                      85004  
City                                      State                                      Zip

  
Signature of Person Authorized to Sign

Karl Obergh, PE  
Printed Name

Director  
Title



## 1. CONTRACT UNDERSTANDING & APPROACH

### ➤ 1A. GENERAL TASKS & SPECIAL ISSUES ◀◀

As outlined in the Request for Qualifications (RFQ) Scope of Work, ADOT is seeking consultants to offer on-call services for a range of survey tasks essential for delineating and acquiring R/W for ADOT roadway and infrastructure projects. Consultants are expected to deliver the 13 general service tasks specified in the *ADOT Right of Way Procedures Manual* (updated July 30, 2018) and per Interim Policy Statements issued by ADOT.

- |                                      |   |
|--------------------------------------|---|
| 1. R/W Surveys (ROS)                 | 8. R/W staking for appraisals                 |
| 2. Monument existing R/W             | 9. Revise final R/W plans                     |
| 3. Basemapping plans                 | 10. Special detail exhibits                   |
| 4. Advance acquisition detail sheets | 11. Initial R/W staking and R/W staking plans |
| 5. Final R/W plans                   | 12. Final R/W monumentation surveys           |
| 6. Parcel exhibits                   | 13. Acquisition record completion             |
| 7. Supplemental ROS                  |   |

Drawing on Ardurra's expertise, the following tasks encompass the technical and institutional aspects required for this contract. Among the 13 general tasks outlined, Ardurra has identified five major R/W tasks for typical projects:

- 1. R/W Surveys:** This task involves creating ROS sheets that depict existing conditions, serving as the foundation for various contract-related tasks. It accurately represents sectional control, existing R/W corridors, horizontal control networks, and property boundary evidence found in the field, along with the methods employed for the survey.
- 2. Basemapping Plans:** Building upon the R/W Survey/ROS, this task further delineates existing property ownership and associated easements. Vesting instruments or title reports are used to calculate parcel boundaries at this stage.
- 3. Final R/W Plans:** Utilizing elements from the R/W Survey/ROS and basemapping plans, this task incorporates sectional control, R/W corridors, and individual parcel information. It addresses new R/W requirements defined by ADOT and/or design consultants, including calculations for any additional

R/W areas to be acquired. Parcel exhibits may also be created using basemapping line work and title report information for advance acquisition on some projects.

- 4. Initial R/W Staking and R/W Staking Plans:** This task occurs before construction activities begin, involving the placement of initial (temporary) monumentation to support construction projects. In some cases, existing R/W is also monumented during this phase.
- 5. Final R/W Monumentation Survey:** Conducted after construction, this task entails setting permanent ADOT R/W, access control, and easement monumentation. Ultimately, final R/W monumentation survey plans are prepared for submission as part of the final R/W plan set.

Additional R/W service tasks may include:

- **Monumentation of Existing R/W:** This may be necessary early in the R/W project cycle if there's a considerable gap between the R/W survey and the final R/W monumentation survey.
- **Vesting Instrument Research and Acquisition:** While the ADOT Title Department typically handles research and acquisition of vesting instruments for most projects, Ardurra steps in when needed, compiling them in a three-ring binder for submission to ADOT.
- **Parcel Exhibit Sheets:** These may be requested during the final R/W plans phase to facilitate the acquisition process.
- **Supplemental ROS:** As a project progresses, it may become apparent that additional areas of interest need coverage, requiring a supplemental ROS.
- **R/W Staking for Appraisals:** This task, conducted on a parcel-by-parcel basis, aids appraisers during discussions with landowners regarding new acquisitions.
- **Acquisition Record Completion Scope:** Once ADOT acquires new R/W, a scope is prepared to finalize the acquisition record, adding recorded document numbers to the ownership record sheets.

- **Disposal Sheets:** Occasionally, disposal sheets are prepared when ADOT opts to relinquish any unused lands.

### SPECIAL ISSUES

Various unique scenarios may arise when working on projects to define roadway R/W limits, including:

- Shared boundaries with roadways controlled by other governmental agencies (Federal, State, City, County)
- Railroad company R/W
- Irrigation district property/R/W (canals, ditches and underground pipes)
- Public (Federal, State, City, County) and private properties
- Native American R/W Easements
- Conflicting boundary evidence like legal description discrepancies, "pin cushions," and lines of occupation differing from recorded and/or monumented property boundaries.

Addressing these scenarios may entail reviewing:

- Title reports (vesting deeds and Schedule B easements)
- Results of Surveys
- R/W Plans, Easements, Maps
- Subdivision plats and other available records.

This review process aids in determining junior/senior rights and adjusting calculated property and R/W lines to align with these records. Our experienced key personnel are adept at handling these special issues and understand the review requirements and technical approaches necessary to address them.





»1B. APPROACH TO TASKS + ISSUES«

Ardurra is well-versed in ADOT’s on-call process and is committed to following a streamlined project approach to meet schedules and deliver precise results for ADOT.

**KICK-OFF MEETING**

Ardurra will schedule a kick-off meeting with ADOT, Ardurra’s project manager, technical leads, reviewers, and other stakeholders to discuss the scope of work, documentation, schedule, and any unique project issues or challenges. After the kick-off meeting, Ardurra will prepare a cost proposal for ADOT’s review. Upon ADOT’s approval of the cost proposal, ADOT’s Engineering Consultant Services (ECS) will issue a notice to proceed. **It’s crucial to emphasize that no work should commence until a Cost Proposal covering all tasks and Authorization has been obtained from the Consultant.**

**TASK MANAGEMENT**

Ardurra’s recent experience in completing ADOT R/W projects has familiarized us with typical project workflows and technical requirements. Drawing from this experience, we comprehend the approach necessary to meet or surpass quality and schedule expectations. **Table 1** outlines the five major R/W tasks mentioned earlier, along with our approach and real-life challenges we have encountered and resolved.

All survey task submissions undergo review by ADOT, who provides redline comments. Ardurra then addresses these comments and submits the revised documents to ADOT for final review. ADOT conducts the final review and returns any remaining redline comments to Ardurra. We address these final comments, prepare the deliverables, and submit them to ADOT for final approval.

This Review and Comment Process is standard for tasks such as R/W ROS, basemapping plans, final R/W plans, initial R/W staking and plans, and the final R/W monumentation survey.

**Table 1: Major R/W Tasks**

TASK	APPROACH	ISSUE	SOLUTION
<i>R/W Survey &amp; ROS</i>	Preliminary calculations are conducted to establish search coordinates for known monuments found during research. Field survey begins with verifying the GPS horizontal control network and establishing additional control if needed. Existing monuments like sectional corners, ADOT monuments, and private parcel corners are located and measured. After collecting and processing field data, the controlling R/W centerline is determined, and final calculations define the existing R/W. Plans for the R/W ROS are prepared along with a calculation book. Ardurra’s project manager and sub-consultant conduct a thorough quality control review. The survey is then submitted to ADOT for review and feedback.	Ardurra conducted a survey for a port-of-entry site in Window Rock, AZ, where part of the project was situated near the Arizona/New Mexico state line. During the survey, it was found that the existing survey used to mark the state line relied on an abandoned monument.	During fieldwork, original milestone markers indicating the precise location of the state line were discovered. Additional calculations, utilizing Bureau of Land Management (BLM) plats and notes, determined the accurate alignment of the state line. <b>Ardurra’s final deliverable accurately depicted the correct position of the state line.</b>
<i>Basemapping Plans</i>	If ADOT or the design consultant has not finalized the new R/W requirements, basemapping plans may be generated to expedite the process for eventual production of the final R/W plans. If parcel title reports are unavailable, vesting instruments are utilized to calculate parcel boundaries within the project limits. Basemapping plans are developed using R/W survey data and then sent to ADOT for review and feedback.	During the Tangerine Road traffic interchange (TI) project in the Town of Marana, an unrecorded historical irrigation ditch was replaced with an underground pipe on-site. Previous property rights posed a potentially significant impact on the design process.	Ardurra uncovered this information during the initial document research and included it in the basemapping. <b>The design team’s knowledge of the ditch prevented inappropriate improvement designs, thus avoiding potential adverse effects on highway construction.</b>
<i>Final R/W Plans</i>	Title reports are used to determine various parcel measurements including total area, gross area, net area, easement area, and remaining area. The new R/W acquisition (net) is calculated for each parcel and recorded on the ownership record sheet. Parcel calculations are updated in the calculations book and integrated into the final R/W plans. Upon completion, the final R/W plans are submitted to ADOT for review and feedback.	Engaging with stakeholders, including the private developer, ADOT, and the Town of Marana, posed a significant challenge to the success of the Tangerine Road TI project.	Ardurra facilitated communication and coordination among stakeholders by serving as a liaison, ensuring continuous and extensive interaction throughout the project.
<i>Initial R/W Staking &amp; R/W Staking Plans</i>	Prior to construction, a scope of work amendment is drafted for the initial R/W staking and R/W staking plans. Temporary monuments are placed in the field to indicate the location of the new acquisition. Initial R/W staking plans are then prepared and presented to ADOT for review and feedback.	Staking difficulties typically arise in the final phases of the project and may involve obstacles like fences, concrete walls, and ditches that obstruct the placement of monuments.	Ardurra’s experience with ADOT R/W matters allowed us to identify various options for accurately representing a corner, including strategically locating witness corners or reference monumentation.
<i>Final R/W Monumentation</i>	Final R/W Monumentation Survey involves establishing permanent ADOT monuments along the new R/W line, replacing temporary markers set during the initial R/W staking phase. The initial R/W staking plans are then transformed into final R/W monumentation survey plan sheets and forwarded to ADOT for review and feedback.	In the concluding monumentation phase of ADOT’s I-17, Bethany Home Road-Northern Avenue project, Ardurra identified non-ADOT monumentation at the corners of several sections designated for transfer to the City of Phoenix post-construction.	Through thorough verification of the non-ADOT monumentation, Ardurra minimized monumentation costs by integrating existing monumentation into the final ADOT R/W monumentation survey plans, which included various types such as City of Phoenix, private surveyor, and final ADOT monuments.



**COMMUNICATION-BEST APPROACH**

Ardurra believes communication with ADOT during all phases of work is paramount. A good example of this is our resolution of issues on the SR 97 Modernization Grant project, where we encountered multiple uniquely challenging technical and practical complexities, including the extreme remoteness of the project site, lack of recent records and monumentation, overlapping and unabandoned R/W along the same corridor, and multiple complicated alignment geometries. Three different ADOT projects combined to establish the roadway alignment, with multiple station equations and additional details that contributed to a need for highly technical solutions to define the roadway location. One of the ADOT alignments even reversed the direction of stationing. Ardurra's team worked with

ADOT in an iterative process to communicate and agree upon a final alignment solution. **Bottom line, timely and effective communication is Ardurra's best approach to all tasks.**

**»1C. TENTATIVE SCHEDULE«**

During the Kick-Off Meeting, Ardurra will review the schedule based on the scope of the task. Each project is unique and the duration for each task will differ depending upon various elements such as location, project timeframe, the number of sheets required, and the number of parcels. A typical ADOT task order schedule for R/W tasks is shown in **Figure 1**.

**STRATEGIES TO AVOID SLIPPAGE OF SCHEDULE**

In addition to maintaining regular communication between ADOT and Ardurra's project team, weekly meetings are held to evaluate the progress of each project and make necessary adjustments to resource allocation in order to meet deadlines.

At the start of every month, team members and key ADOT personnel involved in the projects receive an ADOT R/W Progress Report (see **Figure 2**). This report offers an overview of task statuses, including project-specific details like due dates and completion percentages.

**2. CONTRACT TEAM**

Ardurra provides ADOT with a skilled team of professionals ready to fulfill the requirements of this contract. Our current staff comprises three Registered Land Surveyors (RLS), one R/W Technician, four fully equipped field survey crews, survey technicians, and three MicroStation technicians proficient in ADOT's drafting standard.

*Figure 1: Schedule*

R/W TASKS	DURATION OF TASK	RESPONSIBILITY
<i>Project Kick-Off Meeting, Cost Proposal, NTP, Commence work</i>	2-6 weeks	Ardurra work task
<i>Field Survey</i>	1-12 weeks	Ardurra work task
<i>Initial Field Survey Complete</i>		
<i>Centerline Analysis Review with ADOT</i>	4 months - 2 years (Typically, 4-6 months)	Ardurra work task
<i>Prepare ROS sheets</i>		
<i>ADOT Review/Scheduling</i>	2-6 weeks	ADOT review task
<i>Review Vesting Instruments and/or Title Reports</i>		
<i>Prepare Basemapping and/or Final R/W Plans</i>	4 months - 3 years (Typically, 4-6 months)	Ardurra work task
<i>ADOT Review/Scheduling</i>	2-6 weeks	ADOT review task
<i>Perform Initial R/W Staking</i>	1-3 months	Ardurra work task
<i>ADOT Review/Scheduling</i>	2-6 weeks	ADOT review task
<i>Perform Final R/W Monumentation</i>	1-3 months	Ardurra work task
<i>ADOT Review/Scheduling</i>	2-6 weeks	ADOT review task
<i>Prepare final acceptance package</i>	1-2 weeks	Ardurra work task

*Figure 2: Example Progress Report*

**Monthly ADOT R/W Project Progress Report**

August 28, 2023

R/W Project	Last Submittal Date	Comments
<b>Prescott Lakes Parkway</b> Project No. 069 YV 293 H8739 01D Federal Aid No.: 068-A(217)T ADOT Reviewer - James Yearley	Original Scope (CM #78) <u>Verify Results of Survey and Preliminary R/W Plans</u> Field Verification due 5/8/2020 Survey Report due 5/22/2020 Revised Supplemental Survey Drawing <u>Final R/W Plans:</u> Initial Review Submittal Final Review Submittal Final Task Submittal <u>State Land Exhibits:</u> Initial Review Submittal Final Review Submittal <u>Supplemental Results of Survey</u> Initial Review Submittal due TBD Final Review Submittal due TBD Final Task Submittal due TBD	<b>Original Scope - (Received 3/5/2020)</b> - Three tasks at left - Contract mod #78 received 4/30/20 Completed Completed TBD - To be scoped and performed under New Contract  Finalized Version of PLN file submitted to ADOT 4/11/21. Comments received 5/15, 5/21 and 5/28 Submitted 6/15.  Submitted 4/27. Submitted 6/15. Received <b>Contract Mod#4 received 9/29/22</b> for supplemental survey
	<b>Scope Amendment #1 R/W Staking Proposal request received</b> Scope Amendment #1 R/W Staking Proposal due to ADOT Initial R/W Staking Due Initial Review Submittal Due	Received 6/20/23 Due 6/30/23 Due 10/25/23 Due 11/15/23
<b>Kolb Road T.L.</b> Project No. 010 PM 270 H7504 01R (All charges to M5195 01X) Federal Aid No.: Unassigned ADOT Reviewer - Scott Parker	<b>Original Scope (CM #1)</b> <u>Supplemental Results of Survey</u> Initial Review Submittal due 8/20/2021 Final Review Submittal due 9/17/2021 Final Task Submittal  <u>Revise Final R/W Plans:</u> Initial Review Submittal due TBD Final Review Submittal due TBD Final Task Submittal due TBD  <u>Revise Final R/W Monumentation Survey</u> Initial Review Submittal due TBD Final Review Submittal due TBD Final Task Submittal due TBD	<b>Original Scope - (Received 6/4/2021)</b> - Three tasks at left - <b>Contract Mod #2 received 8/12/21</b>  Submitted 9/30/21, Received Comments 11/19/21 from Dan & Scott Submitted on 1/4/22 Comments received 5/27/22 and re-submitted 6/13/22 Additional comments received 8/15/22 and re-submitted 8/23/22. Awaiting further comments.  Field work verified all monumentation present on 1/4/22
<b>Princess Drive - Shea Blvd.</b> Project No. 101L MA 036 F0123 Federal Aid No.: 101-B(210)T ADOT Reviewer - Scott Parker	<b>Original Scope (CM #2)</b> <u>Basemapping Plans:</u> Initial Review Submittal due TBD Final Review Submittal due TBD Final Task Submittal due TBD  <u>Results of Survey</u> Initial Review Submittal due 5/30/22 Final Review Submittal due 9/30/22 Final Task Submittal due TBD <u>Right of Way Plans</u> Initial Review Submittal due 10/28/22 Final Review Submittal due 12/5/22 Final Task Submittal due 1/4/23	<b>Original Scope - (Received 7/6/2021)</b> - Two tasks at left - <b>Contract Mod #3 received 8/24/21</b>  PLN file provided along with schedule B items on 9/13/22.  Centerline Analysis meeting on 3/24/22. RPA to adjust centerline per comments received from Dan Miller and Scott Parker. Will resubmit centerline information on 4/4/22. Initial Review submitted 6/15/22; received comments 8/1/22, meeting on 8/10/22 and re-submitted on 9/30/22 Review comments from Second Submittal 11/22/22. (meeting) Received CM Scope on 6/27/22. Anticipate submitting CM to ROW staff on 7/14/22; <b>Contract Mod#5 received 10/7/22</b> New Parcel received 11/22/22 via ShareFile. ROW will be updated and plan to submit week of 12/5/22.
	<b>Final Submittal</b>	Final submittal made on 8/24/23



**>>2A. PROJECT MANAGER<<**

The Team Member Matrix (Table 2) showcases our team’s expertise, licenses, and qualifications to deliver R/W services for ADOT. Comprehensive resumes for our key team members are available in Part D of our submission.



**JESSE BOYD, PE, RLS | PROJECT (CONTRACT) MANAGER**

BS, Mechanical Engineering | PE AZ #55056, RLS AZ #42937 | 80% Availability | 60% Expected Time Commitment

Jesse has more than 24 years of experience managing and participating in production tasks for a variety of surveying and engineering projects, including topographic surveys, boundary surveys, utility surveys, cadastral surveys, R/W mapping, parcel and R/W basemapping, final platting, ROSs, ALTA surveys, legal descriptions, construction staking, as-built surveys, aerial photogrammetric mapping surveys, and control surveys. Jesse is proficient with AutoCAD Civil 3D, MicroStation, and InRoads, and is knowledgeable in geodesy, mapping projections, GPS, GIS, and statistical analysis.

**Similar Experience**

- ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services | Statewide AZ
- City of Phoenix Margaret T. Hance Park | Phoenix, AZ
- City of Scottsdale Osborn Road Complete Street: Hayden Road to Scottsdale Road | Scottsdale, AZ
- SR 97 Modernization Grant, Bagdad, AZ

**>>2C. OTHER KEY PERSONNEL<<**



**TROY RAY, RLS | RESEARCH**

BS, Land Surveying | RLS AZ #33868 | 30% Availability | 15% Expected Time Commitment

Troy has 31 years of experience participating in and managing a variety of surveying projects ranging from ROS, ALTAs, topographic basemapping, and legal descriptions to construction staking, aerial mapping, and control surveys. He has experience on ADOTs ESS & R/W contracts and has fulfilled both production and supervisory roles for each. For ADOTs R/W task orders, Troy utilizes his extensive experience in plan production and research to perform independent checks on surveys involving section, R/W, and property lines within the project area.

**Similar Experience**

- ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services | Statewide Arizona
- MCDOT On-Call Survey Services | Statewide Arizona
- Navajo Housing Authority Survey On-Call | Arizona
- Mohave County Flood Control District Survey On-Call | Mohave County, AZ



**RAY MUNOZ, RLS | R/W PLANS SPECIALIST**

AAS Surveying | AAS Civil Engineering | Artillery Surveyor Course (MOS 13S), US Army | RLS AZ #53160 | 50% Availability | 50% Expected Time Commitment

Ray brings 18 years of extensive experience to the realm of surveying, having contributed to a diverse range of projects involving record of surveys, ALTA surveys, topographic mapping, legal descriptions, and exhibits, as well as construction and boundary surveys, serving both public and private clients. With a keen understanding of ADOT and City processes, Ray has successfully executed numerous similar survey task orders and assignments for both design and construction projects. His expertise extends to the

Table 2: Key Team Member Matrix

Key Personnel   Education	YEARS OF EXP	REGISTRATION	PROJECT EXPERIENCE
Jesse Boyd, PE, RLS	24	PE AZ #55056   RLS AZ #42937	<ul style="list-style-type: none"> <li>■ ADOT On-Call R/W Surveys, Legal Descriptions and Monumentation Services</li> </ul>
Troy Ray, RLS	31	RLS AZ #33868	<ul style="list-style-type: none"> <li>■ ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services</li> <li>■ MCDOT On-Call Survey Services</li> <li>■ Mohave County Flood Control District Survey On-Call</li> <li>■ Navajo Housing Authority Survey On-Call</li> </ul>
Ray Munoz, RLS	18	RLS AZ #53160	<ul style="list-style-type: none"> <li>■ ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services</li> </ul>
Jordan Boen	16	N/A	<ul style="list-style-type: none"> <li>■ ADOT On-Call R/W Surveys, Legal Descriptions and Monumentation Services</li> <li>■ MCDOT On-Call Survey Services   Statewide Arizona</li> <li>■ Mohave County Flood Control District Survey On-Call   Mohave County, AZ</li> </ul>





development of project control and ALTA/NSPS land title survey projects. Proficient in Trimble TBC and AutoCAD Civil 3D, Ray has demonstrated the ability to create 2D and 3D models from raw field data.

**Similar Experience**

- ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services | Statewide Arizona
- SR 97 Modernization Grant, Bagdad, AZ



**JORDAN BOEN | R/W PLANS SPECIALIST**

50% Availability | 50% Expected Time

Jordan has 16 years of surveying experience including as party chief on private and public sector projects throughout Arizona. His experience includes topographic surveys for design, boundary surveys, ALTA surveys, ADOT R/W surveying, and construction surveying services. His responsibilities include customer control tie, conduit tie, establishing new control points for ADOT Control Network and completing the necessary paperwork needed to eliminate questions on projects ranging from small retail and residential sites to large facilities. Jordan has working knowledge of various survey equipment including Trimble TBC; Trimble R8 GPS, Trimble S6 and the Trimble 5600 robotic total station.

**Similar Experience**

- ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services
- MCDOT On-Call Survey Services | Statewide Arizona
- Mohave County Flood Control District Survey On-Call | Mohave County, AZ
- SR 97 Modernization Grant, Bagdad, AZ

**»»2D. WORK EXPERIENCE««**

With more than 89 years of combined survey experience held by our key personnel, Ardurra stands ready to continue serving ADOT on this on-call contract. Ardurra has the technical capability, experience, and broad depth of available resources to fulfill the requirements of this contract.

We have consistently provided R/W survey and R/W plans services to ADOT statewide for over 32 years. These services have included performing R/W field surveys; boundary and monumentation surveys; preparation of ROSs; R/W plans; R/W monumentation plans; and supplemental surveys on projects ranging in size, scope, and complexity. Our experience gives us the familiarity with the fieldwork and the R/W CADD standards that ADOT requires for task orders under this contract.

Ardurra is committed to providing the technical capabilities and firm resources to ADOT for this On-Call opportunity.

**3. DEMONSTRATED KNOWLEDGE, SKILLS & ABILITIES (KSA'S)**

**»»3A. KNOWLEDGE, SKILLS, AND ABILITIES APPLICABLE TO THE ASSIGNMENT««**

Ardurra provides ADOT with a skilled team of professionals ready to fulfill the requirements of this contract. Our current staff comprises three Registered Land Surveyors (RLS), one R/W Technician, four fully equipped field survey crews, survey technicians, and three MicroStation technicians proficient in ADOT's drafting standard.

Ardurra is well qualified to perform the work. Table 3 depicts the knowledge, skills, and abilities of our team. Our team has the experience, knowledge, and desire to work with ADOT to seamlessly provide R/W surveys and plans.

**»»3B. KNOWLEDGE, SKILLS, AND ABILITIES TO MEET CONTRACT REQUIREMENTS««**

Ardurra's key proposed team members have decades of combined experience in the field and office. This familiarity with all facets of land surveying activities is the basis of unparalleled expertise in performing research, preliminary calculations, data analysis and processing, and preparation of final deliverables required as a part of this contract. This hands-on experience gives our team an exceptional ability to troubleshoot, create efficient work plans, and foresee potential challenges that might be faced while performing project task assignments.

As a firm that has continuously provided on-call R/W services to ADOT, Ardurra's survey team is more than capable of carrying out the tasks anticipated for this new contract. Our field crews and office personnel are equipped with the latest survey instruments and technology.

**Table 3: Key Team Member Knowledge, Skills, and Abilities**

KEY PERSONNEL	R/W SURVEY	MONUMENT EXISTING R/W	BASEMAPPING PLANS	ADVANCED ACQUISITION DETAIL SHEETS	FINAL R/W PLANS	PARCEL EXHIBITS	SUPPLEMENTAL ROS	R/W STAKING FOR APPRAISALS	REVISED FINAL R/W PLANS	SPECIALTY DETAIL EXHIBITS	INITIAL R/W STAKING & PLANS	FINAL R/W MONUMENTATION SURVEY	ACQUISITION RECORD COMPLETION
Jesse Boyd, PE, RLS	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Troy Ray, RLS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ray Munoz, RLS	✓		✓		✓	✓			✓		✓	✓	
Jordan Boen	✓	✓					✓	✓			✓	✓	



**Team's Special Equipment/Software**

Ardurra employs a fully automated field-to-office system, utilizing conventional and robotic total stations, electronic data collectors, and state-of-the-art survey equipment for field survey services. We offer GPS with Real Time Kinematic (RTK) and post-process capabilities, among other cutting-edge technologies, enhancing data collection and processing accuracy. This equipment enables swift transmission of topography, control, and boundary survey information from the field to the office.

Our staff utilize personal computer workstations equipped with the latest software, including MicroStation V8i, MicroStation Connect, Inroads, and OpenRoads, for calculations, analysis, and map/exhibit production. Additionally, we rely on Trimble equipment for all survey needs, employing GPS/GNSS Trimble receivers/antennas and software. We work within the NAD83 Datum, Arizona State Plane Grid Projection, Central Zone (0202), and reference NGS control points whenever possible. Ardurra also has expertise in the latest version of Trimble Business Center (TBC).

**»»3C. KNOWLEDGE, FAMILIARITY, AND EXPERIENCE WITH R/W PLANS & SURVEYS««**

Our team members have participated in and successfully completed numerous previous task assignments similar in nature. Through these experiences, we have developed a comprehensive knowledge base covering technical intricacies and project workflows relevant to this type of work. Our team has tackled various unique challenges on recent completed and ongoing projects, including H7504 01R Kolb Rd TI, F0123 SR 101 Pima Freeway – Princess Drive to Shea Boulevard, H8739 SR 69 Cordes Junction-Prescott – Prescott Lakes Parkway to Frontier Village, and F0493 SR 97 – US 93 to SR 96. These projects collectively encompass dozens of miles of urban and rural freeways, presenting a wide array of common and unique scenarios and project characteristics encountered in tasks performed under this contract.

**4. RELEVANT EXPERIENCE**

**»»4A. RELEVANT FIRM EXPERIENCE««**

**ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services, Statewide, AZ**



Ardurra is providing on-call land and R/W surveying services for ADOT. Services include control/ benchmark surveys, R/W surveys, boundary surveys, aerial survey photogrammetric control support, preparation of ROS, lot line adjustments, legal descriptions/exhibits, and final plats. Ardurra has been continuously reselected as a consultant for this ADOT on-call contract for over 32 years.

**Role of Firm:** R/W surveys, monument existing R/W, basemapping plans, Advance acquisition detail sheets, final R/W plans, parcel exhibits, supplemental ROS, R/W staking for appraisals, revise final R/W plans, special detail exhibits, initial R/W staking and R/W staking plans, final R/W monumentation surveys, and acquisition record completion.

**Key Staff:** Karl Obergh, Troy Ray, Jesse Boyd, Ray Munoz, Jordan Boen

**ADOT R/W On-Call Task, SR 69**

Ardurra is currently providing Supplemental ROS, Revised Final R/W Plans, Initial R/W Staking and R/W Staking Plans for the SR 69 from Prescott Lakes Parkway to Frontier Village located between Milepost 293.8-296.0. There are six parcels impacted by new R/W

requirements, which include the Yavapai-Prescott Indian Tribe, Arizona State Land, commercial private land, and a Non-profit Homeowners Association. The acquisitions were for road and pedestrian use improvements.

**Role of Firm:** Parcel/R/W basemapping, R/W determination, ROS plans, R/W plans, R/W staking plans, and R/W monumentation survey plans.

**Key Staff:** Karl Obergh, Troy Ray, Jesse Boyd, Ray Munoz, Jordan Boen

**ADOT R/W On-Call Task, Princess Drive to Shea Boulevard, Scottsdale, AZ**

Ardurra is currently working with ADOT on the preparation of the ROS Plans, R/W Survey Plans, and R/W Staking Plans for the SR 101L corridor between Princess Drive and Shea Boulevard. Ardurra performed the field work needed for this 5.5-mile-long freeway in accordance with ADOT's Regional Transportation Plan Freeway Program Design Procedure Memorandum for Surveys and Aerial Mapping.

**Role of Firm:** Parcel/R/W basemapping, R/W determination, ROS plans, R/W Plans, R/W staking plans, and R/W monumentation survey plans.

**Key Staff:** Karl Obergh, Troy Ray, Jesse Boyd, Ray Munoz, Jordan Boen

**ADOT R/W On-Call Task, Kolb Road**

Ardurra provide Supplemental ROS, final R/W Plan Revisions & Final R/W Monumentation Survey for the Kolb Road TI located at the southeast corner of the intersection of I-10 and Kolb Road.

**Role of Firm:** Parcel/R/W plans, supplemental ROS Plans, and R/W monumentation survey plans.

**Key Staff:** Karl Obergh, Troy Ray, Jesse Boyd, Ray Munoz, Jordan Boen



**SR 97 Modernization Grant, Bagdad, AZ**

As a subconsultant, Ardurra is currently working on this R/W project to accurately define the limits of highway R/W that is to be abandoned, to accurately define and monument the new R/W and to accurately define those portions that may be sold/acquired. Ardurra will complete a R/W survey of the project corridor (SR 97 Jct. US 93 to Jct SR 96, 12 miles in length), produce a ROS drawing and R/W Documentation Plans necessary for the future development of the project corridor. Additional tasks that will be required by ADOT is producing a R/W monumentation survey and legal descriptions for Arizona State Land Department regarding new R/W acquisitions and/or abandonments.

**Role of Firm:** Parcel/R/W basemapping, R/W determination, ROS plans, and R/W plans.

**Key Staff:** Troy Ray, Jesse Boyd, Ray Munoz, Jordan Boen

**Osborn Road Complete Street: Hayden Road to Scottsdale Road, Scottsdale, AZ**

Ardurra is providing survey, pre-design, and final design to develop multi-modal connectivity and safety solutions along approximately one mile of Osborn Road. Pre-design phase included an alternatives analysis to develop final construction documents for connectivity, safety, and quality of life improvements. Project features include pedestrian and bicycle safety and connectivity features, a single lane roundabout at the Miller Road intersection, roadway and pedestrian lighting, ADA upgrades, future transit facilities, traffic calming alternatives, utilities, hydrologic analysis, raised and flush medians, and a relief sewer. Survey specific tasks included R/W determination and centerline analysis for Osborn Road, calculations relating to public and private boundaries, producing a Geometric Control Plan, and collecting topographic planimetrics for use in developing a digital terrain model.

**Role of Firm:** Parcel/R/W basemapping, R/W determination, topographic basemapping, easement and R/W, and legal descriptions.

**Key Staff:** Troy Ray, Jesse Boyd

**ADOT R/W On-Call Task, SR 260 Thousand Trails**



As part of the on-call with ADOT R/W, Ardurra has performed verification of ROS, calculation book, staking tasks, and most recently completed monumentation sheets, delineate abandonment areas, and updated Final R/W plans as requested to ADOT standards. Ardurra submitted a cost proposal and received authorization to properly monument the new R/W ensuring ADOT's acquisition rights to those lands required to construct and maintain public roadways and protecting the property rights and interests of adjoining landowners. Ardurra utilized ADOT approved R/W Monumentation Staking Plans to perform any calculations and prepare support packets for field crews to establish monuments. Ardurra field crews are knowledgeable with ADOT R/W Plans Section R/W Monumentation Procedures and Standards. Following these standards and Ardurra's standard field procedures, field tasks are completed in a timely manner yielding consistent and accurate results. Following the field work, Ardurra created R/W Monumentation Sheets illustrating the type and kind of monuments set along with associated coordinates including any

details necessary to clearly delineate the data. Upon final submittal, signed/sealed mylars were submitted along with a hard copy of the updated calculation book and electronic files meeting the requirements of the ADOT contract and contract modification (CM#) submittal requirements.

**Role of Firm:** Final R/W monumentation survey, revise final R/W plans, and correct calculation book and reports.

**Key Staff:** Troy Ray

**ADOT R/W On-Call Task, Palo Verde Road TI**

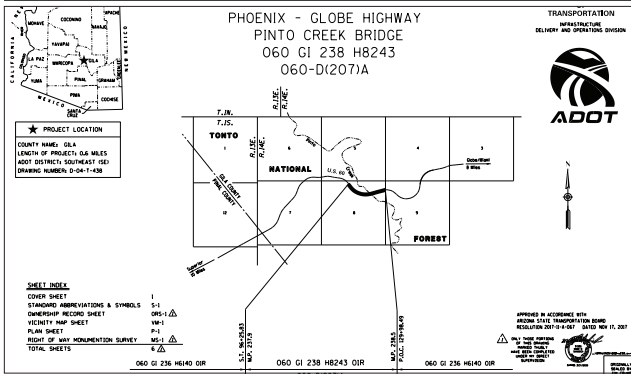
As part of the on-call with ADOT R/W Group, Ardurra has performed verification of Supplemental Survey, ROS, and Preliminary R/W Plans, staking tasks and most recently completed monumentation sheets, and updated plans to ADOT standards as requested. Ardurra submitted a cost proposal and received authorization to properly monument the new R/W ensuring ADOT's acquisition rights to those lands required to construct and maintain public roadways and protecting the property rights and interests of adjoining landowners. Ardurra utilized ADOT approved R/W Plans to perform calculations and prepare Ardurra field packets for field crews to establish monuments. Ardurra field crews are knowledgeable with ADOT R/W Plans Section R/W Monumentation Procedures and Standards. Following these standards and Ardurra's standard field procedures allows field to complete tasks in a timely manner yielding consistent and accurate results. Following the field work, Ardurra created R/W Monumentation Sheets illustrating the type and kind of monuments set along with associated coordinates including any details necessary to clearly delineate the data. Currently final review materials are being prepared to complete this task.

**Role of Firm:** Verify supplemental survey, ROS and preliminary R/W plans, final R/W plans, final R/W monumentation survey, correct calculation book and reports, and issue signed mylars.

**Key Staff:** Troy Ray



**ADOT R/W On-Call Task, Pinto Creek Bridge**

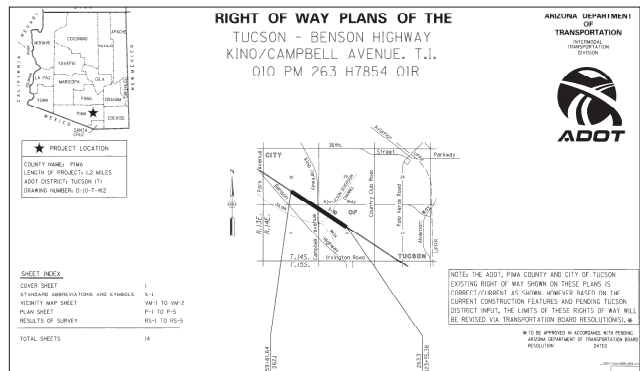


As part of the on-call with ADOT R/W, Ardurra has performed staking tasks, completed monumentation sheets, and updated plans to ADOT standards as requested. Ardurra submitted a cost proposal and received authorization to properly monument the new R/W ensuring ADOT's acquisition rights to those lands required to construct and maintain public roadways and protecting the property rights and interests of adjoining landowners. Ardurra utilized ADOT approved R/W Plans to perform any calculations and prepare Ardurra field packets for field crews to help establish monuments. As part of every ADOT field task, Ardurra researches the work area to verify that there are no special circumstances that will delay the project or become safety issues for the field crews. For this task in particular, enough research was done to ensure both ADOT and the field crews had knowledge of proposed monument locations were found to be on the edges of mountainous slopes. Witness Corners were set as needed in those situations to keep the field crew safe and complete the field tasks in a timely manner. Following the field work, Ardurra created R/W Monumentation Sheets illustrating the type and kind of monuments set along with associated coordinates including any details necessary to clearly delineate the data and updated the Point ID sheets. Upon final submittal signed/sealed mylars were submitted along with a hardcopy of the updated calculation book and electronic files meeting the requirements of the master ADOT submittal requirements.

Evaluation Criteria

**Role of Firm:** Verify ROS, final R/W plans, revise final R/W plans, final R/W monumentation survey, and issue signed mylars.  
**Key Staff:** Troy Ray

**ADOT R/W On-Call Task, Kino-Campbell Avenue TI**



As part of the on-call with ADOT R/W Group, Ardurra has performed verification of Supplemental Survey, ROS and most recently calculated new R/W based on field verification and ERW Report, staking tasks, monumentation sheets, updated plans with new R/W takes and disposals and generally updated plans to ADOT standards as requested. Ardurra submitted a cost proposal and received Authorization to properly monument the new R/W ensuring ADOT's acquisition rights to those lands required to construct and maintain public roadways and protecting the property rights and interests of adjoining landowners. Ardurra utilized ADOT approved R/W Plans to perform any calculations and prepare support packets for field crews to help guide and aid in the establishment of said monuments. Following these standards and Ardurra's standard field procedures allows field to office tasks to be completed in a timely manner yielding consistent and accurate results. Following the field work Ardurra created R/W Monumentation Sheets illustrating the type and kind of monuments set along with associated coordinates including any details necessary to clearly delineate the data and updated plan sheets as needed to clearly define the new R/W

limits. Upon final submittal signed/sealed mylars were submitted along with a hardcopy of the updated calculation book and electronic files meeting the requirements of the master ADOT submittal requirements.

**Role of Firm:** Verify ROS and preliminary R/W Plans, final R/W plans, final R/W monumentation survey, correct calc book and reports, and issue signed mylars.  
**Key Staff:** Troy Ray

**ADOT R/W On-Call Task, Glance Creek Bridge**

As part of the on-call with ADOT R/W Group, Ardurra has performed ROS, calculation book, staking tasks, and most recently completed monumentation sheets, and updated plans to ADOT standards as requested. Ardurra submitted a cost proposal and received Authorization to properly monument the New R/W ensuring and perpetuating ADOT's acquisition rights to those lands required to construct and maintain public roadways and protecting the property rights and interests of adjoining landowners. Ardurra utilized ADOT approved R/W Monumentation Staking Plans to perform any calculations and prepare Ardurra field packets for field crews to help guide and aid in the establishment of said monuments. Ardurra field crews are knowledgeable with ADOT R/W Plans Section R/W Monumentation Procedures and Standards. Following these standards and Ardurra's standard field procedures allows field to office tasks to be completed in a timely manner yielding consistent and accurate results. Following the field work Ardurra created R/W Monumentation Sheets illustrating the type and kind of monuments set along with associated coordinates including any details necessary to clearly delineate the data. Upon final submittal signed/ sealed mylars were submitted along with a hardcopy of the updated calculation book and electronic files meeting the requirements of the master ADOT submittal requirements.

**Role of Firm:** Initial R/W staking and R/W staking plans, acquisition record completion, and final R/W monumentation survey.  
**Key Staff:** Troy Ray



**Margaret T. Hance Park Redevelopment, Phoenix, AZ**



Ardurra is provided planning, surveying, civil engineering, and drainage design services for the redevelopment of Margaret T. Hance Park— an existing 32-acre urban park over the I-10 in Downtown Phoenix. The redevelopment project spans one mile of the Deck Park Tunnel between 3rd Street and 5th Avenue and is under the jurisdiction of ADOT. Land survey specific tasks performed as part of this project are developing and identifying the ADOT jurisdiction maintenance areas for I-10, calculations for determining City of Phoenix public R/W and public lands, calculations for determining private land boundaries and correlating all the data to title reports for the entire limits of the I10 / Hance Park corridor. The mapping will be utilized to develop master agreements and development of the park.

**Role of Firm:** Aerial surveys, supplemental ground survey, boundary verification including reviewing title reports, plotting easements.

**Key Staff:** Troy Ray, Jesse Boyd

**Happy Valley Road: Pima to Alma School, Scottsdale, AZ**



Ardurra provided roadway, utility coordination, regional watershed hydrology, roadway hydrology, hydraulics, survey, R/W, and traffic design for approximately two miles of arterial roadway widening. Complete Street corridor improvements will provide two through lanes in each direction, two multi-lane roundabouts, raised median, bike lanes, sidewalk, multi-use path, and off-site drainage conveyance systems. This project will complete hydraulic drainage improvements to minimize downstream impacts. Ardurra coordinated with adjacent downstream project consultants to optimize hydraulic configurations for off-site flows. Survey basemapping services were performed supporting the design of this wide range of improvements. Topographic survey basemapping was produced utilizing data from both a photogrammetric mapping survey performed by an aerial mapping subconsultant, and ground topographic data collection performed by Ardurra. Parcel and R/W basemapping was produced using found Sectional and roadway centerline monumentation found within the project area, as well as record information for R/W and adjacent parcels.

**Role of Firm:** Parcel/R/W basemapping, R/W determination, topographic basemapping, easement and R/W, and legal descriptions.

**Key Staff:** Karl Obergh, Troy Ray, Jesse Boyd

**Scottsdale Road: Jomax to Dixileta, Scottsdale, AZ**

Ardurra is providing arterial geometric design to widen a two-mile segment of Scottsdale Road. The proposed cross section incorporates three travel lanes in each direction, multi-lane roundabout, raised/landscaped center median, dedicated bike lanes, eight-foot-wide separated sidewalk on the west side and 10-foot-wide stabilized decomposed granite multi use path on the east side. Our team’s scope of work includes stakeholder coordination, topographic survey/basemapping, utility coordination, hydrology/hydraulics, basemapping, construction plans, special provisions, Opinion of Probable Cost (OPC), QA/QC, landscaping, traffic studies/design, geotechnical investigation, public outreach, legal descriptions, and Design Review Board (DRB) approval.

**Role of Firm:** Parcel/R/W basemapping, R/W determination, topographic basemapping, easement and R/W, and legal descriptions.

**Key Staff:** Karl Obergh, Troy Ray, Jesse Boyd

**»»4B. EXPERIENCE AND RECORD OF PERFORMANCE««**

Ardurra has successfully managed similar contracts providing on-call survey and R/W services for various entities, including the Maricopa County Department of Transportation, Pinal County, Navajo Nation, Cities of Phoenix and Chandler, and Salt River Project (SRP). Additionally, we have executed client-directed survey tasks for airports in Cities of Holbrook, Show Low, Payson, and Casa Grande.

Our team members collectively bring over 89 years of experience to the table, spanning from large-scale federally funded projects to smaller private property owner initiatives. Ardurra has leveraged this wealth of knowledge to support projects with an ADOT component and to assist other clients effectively.



Our proven track record is evidenced by the substantial amount of repeat business, which constitutes approximately 80% of our annual revenue. Currently, Ardurra holds 12 survey-specific on-call contracts for various agencies across Arizona. Moreover, our survey department conducts engineering and construction surveys for nearly 40 additional Ardurra on-call contracts. These diverse experiences in surveying positions us to offer ADOT best practices without the need for a learning curve, ensuring seamless integration and performance as an extension of ADOT.

**>>4C. ANTICIPATED PARTICIPATION<<**

Our team is committed to serving ADOT diligently, ensuring the same level of attention and responsiveness that you have grown accustomed to from Ardurra. We are prepared to proceed promptly and will deliver contract services on or before schedule. Jesse Boyd, Project Manager, is ready to meet with ADOT at your earliest convenience to discuss any assigned tasks. Our staff members possess the professional expertise necessary to complete the services within the agreed-upon timeframe and budget. Ardurra is well-organized and currently staffed to fulfill the scheduling needs and requirements of this on-call contract.

KEY PERSONNEL	PARTICIPATION
Jesse Boyd, PE, RLS	80%
Troy Ray, RLS	15%
Ray Munoz, RLS	50%
Jordan Boen	50%

**>>4D. SUBCONSULTANT EXPERIENCE<<**

Ardurra’s core team will be supplemented by experienced subconsultants as needed for any tasks assigned under this contract, with a focus on engaging certified disadvantaged firms.

**5. QUALITY CONTROL (QC)**

**>>5A. INTERNAL QC PROCEDURES<<**

Ardurra’s Quality Assurance Program outlines that quality assurance and quality control begin with our Project Manager, who defines deliverables, communicates client requirements, oversees subconsultants, and implements QA/QC procedures. Our firm employs a four-step QA/QC process (Figure 3), which includes an initial review by Survey Technicians, a secondary check by the Field Crew Manager, a final review by the QA/QC Manager, and verification by the Registered Land Surveyor/PM.

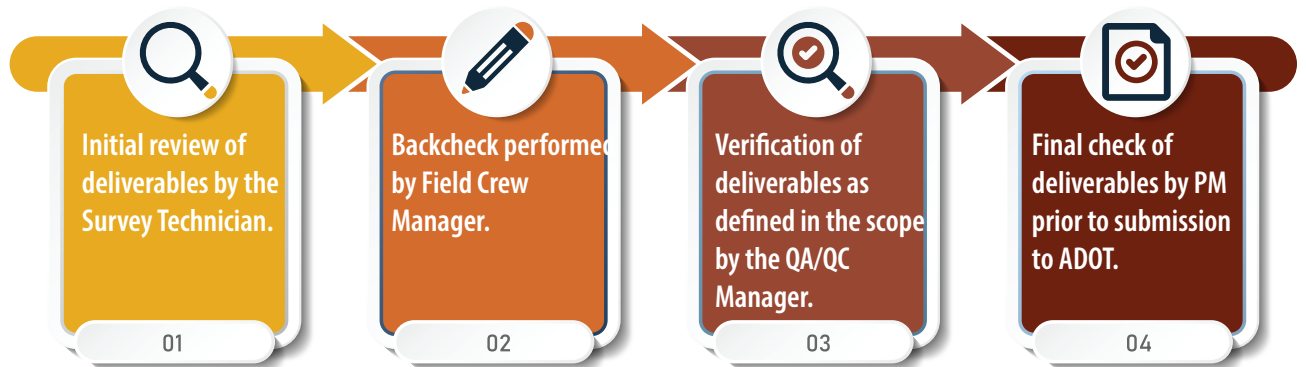
The QA/QC program will be administered, directed, and supervised by our PM, Jesse Boyd, PE, RLS, and the QA/QC Manger. They will ensure technical conformance and adherence to all standards, specifications, manuals, guides, and procedures.

**Technical Reviews:** Jesse, Troy, and Ray will conduct weekly “over the shoulder” technical reviews to ensure that quality control processes are consistently implemented. These reviews help identify and address potential issues promptly.

**Philosophy of Quality:** Ardurra’s philosophy is to provide responsive, innovative, cost-effective, and top-quality services within schedule and budget constraints. This commitment to quality aligns with the project’s goals and expectations.

**Collaborative Approach:** We acknowledge that every project is an iterative process involving collaboration, cooperation, and communication with ADOT staff. This approach promotes a strong working relationship and ensures that the project aligns with the ADOT’s requirements.

Figure 3: Quality Control Process



**>>5B. HOW THE Q/C PROCESS WILL BE USED<<**

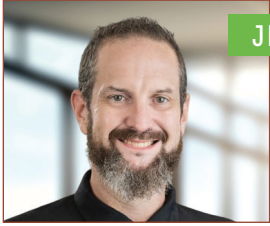
Ardurra four-step process (Figure 3) ensures the quality of our services throughout the project. In addition to deliverables being subjected to the formal QA/QC process, third-party reviews of contract documents and other project-related items is standard practice for our team and ensures quality in all facets of projects.

**Assigned Responsibility:** We have assigned Jesse Boyd, PE, RLS the responsibility for implementing this process project. Jesse’s experience makes him well-suited to oversee quality control efforts.

**IN CLOSING THE ARDURRA TEAM BRINGS**

Operating in Arizona for over **45 years**

- 32** Years of ADOT Expeirnce
- 150** ADOT projects completed by Ardurra
- 3** Current assignments with ADOT



**JESSE BOYD, PE, RLS | Project (Contract) Manager**

**Professional Registration:** AZ PE #55056 | AZ RLS #42937 | CO RLS #38585

**Education:** BS, Mechanical Engineering

**Years of Experience (Firm/Total):** 2/24

**Corporate Title:** Survey Manager

**Corporate Responsibilities:** None

**EXPERIENCE SUMMARY**

Jesse has over 24 years of experience in the execution and management of land surveying and engineering projects, for dozens of public and private clients. The projects he has been involved with include residential subdivisions, commercial developments, roadways, light rail, parking facilities, and other transportation-related improvements. Jesse is an expert in the preparation of ALTA surveys, boundary surveys, records of surveys, topographic surveys, R/W mapping, aerial photogrammetric control surveys, control surveys, utility mapping, construction staking, and roadway design.

**RELEVANT PROJECTS**

**ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services, Statewide, AZ.** Project Manager. Responsible for mapping, research, boundary analysis, field work, preparation of ROSs and R/W maps for multiple roadway R/W projects. Includes hundreds of corner determinations, setting of new monuments, analysis of existing boundaries, and preparation of multiple survey and R/W maps. Total project lengths for all tasks under this on-call summed to more than 20 miles. Project challenges included rural locales of some of the sites, strict workflows and formatting requirements from ADOT, and the need for complex geometric determinations.

**ASU ASU West Phase II ALTA, Phoenix, AZ.** Project Manager. Responsible for field work, research, title report review, boundary analysis, legal descriptions, corner determinations, setting of new monuments, and preparation of ALTA surveys. Also set control for aerial mapping and performed supplemental topographic surveys for this two-acre site. Project challenges included uncertainty in final project deliverables format; Jesse worked with the client and other stakeholders to decide on the correct path for the project and delivered multiple excellent documents, including a new drainage easement legal description and multiple iterations of an ALTA with a changing exterior boundary.

**Maricopa County Kwasnik Lot Split, AZ.** Project Manager. Responsible for field work, research, setting of new corners, boundary analysis, legal descriptions, and preparation of a lot split map for recording with the County Recorder for this two-acre, two-lot subdivision. Project challenges included working with a client with no previous similar experience. Jesse communicated important information about the process and nuances of the project so that the client understood the scope and schedule clearly. Project goals were satisfied upon recording of the map.

**Fairmont Hotel Condo Plat, Phoenix, AZ.** Project Manager. Project Manager. Responsible for field work, research, boundary analysis, corner determinations, and preparation of a condo plat and master plat for this 25-story condo project in downtown Phoenix. Approximately 60 pages were prepared between the two plats. Project challenges included coordination with multiple stakeholders and changing architectural design. Jesse worked with team members to determine the ideal workflow for changes and communicated effectively with key design staff.

**SCI Cemetery Sites, Various Locations, AZ.** Project Manager. Professional registrant in charge of all survey related activities for ongoing cemetery site work at 11 cemeteries throughout Arizona. Work includes research, boundary analysis, platting, topographic surveys, corner determinations, setting of new corners, and construction staking. Dozens of acres of total site improvements have been completed, with many more in progress or planned for the future. Challenges included demanding schedule requirements and difficulty in finding record documents. Jesse's effective communication is key to the continued success of this work.

**Evergreen Garden of Eternity, Tucson, AZ.** Surveyor. Responsible for boundary analysis, research, corner determinations, topographic surveys, and construction staking for this one-acre site. Challenges included difficulty in finding record documents. Jesse performed exhaustive research to find documentation to support existing property boundaries and horizontal and vertical control data.

**Longhorn Ranch, Payson, AZ.** Project Manager. Professional registrant in charge of platting, ALTA surveys, records of surveys, new corners, corner determinations, boundary analysis, aerial photogrammetric mapping control, topographic surveys, legal descriptions, and research. Total approximate area of two phases is 112 acres. Project challenges included availability of research sources, conflicting record documents, gaps/overlaps in record boundary geometry, and ambiguous found physical evidence/monumentation. Jesse analyzed dozens of documents and found monuments to make boundary and corner determinations and eliminate said conflicts and ambiguities.

**Annexation Legal Description, Pinetop-Lakeside, AZ.** Project Manager. In charge of research, boundary analysis, GIS, and legal descriptions. Jesse analyzed GIS data and record documents in support of describing a proposed annexation to the Town of Pinetop-Lakeside. Overall area is over 10 square miles.

**Winslow Cemetery, Winslow, AZ.** Project Manager. Responsible for research, boundary analysis, corner determinations, platting, new corners, topographic surveys, and legal descriptions for this approximate 40-acre site. Project challenges included availability of research sources, conflicting record documents, gaps/overlaps in record boundary geometry, and ambiguous found physical evidence/monumentation. Jesse is in the process of analyzing dozens of documents and found monuments to make boundary and corner determinations and eliminate said conflicts and ambiguities.



TROY RAY, RLS | Research

**Professional Registration:** AZ RLS #33868 | ID RLS #11338 | NM RLS #22094 | NV RLS#15346 | OH RLS #7918

**Education:** BS, Land Surveying

**Years of Experience (Firm/Total):** 16/31

**Corporate Title:** Survey Manager  
**Corporate Responsibilities:** None

EXPERIENCE SUMMARY

Troy has 31 years of experience participating in and managing a variety of surveying projects ranging from ROS, ALTAs, topographic basemapping, and legal descriptions to construction staking, aerial mapping, and control surveys. He has experience on ADOTs ESS & R/W contracts and has fulfilled both production and supervisory roles for each. For ADOTs R/W task orders, Troy utilizes his extensive experience in plan production and research to perform independent checks on surveys involving section, R/W, and property lines within the project area.

RELEVANT PROJECTS

**ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services, Statewide, AZ.** Project Manager. On this statewide on-call survey contract, projects include providing field, R/W, boundary and monumentation surveys; preparation of ROS; R/W plans; and legal descriptions as detailed and described in project specific task orders.

**MCDOT On-Call Survey Services – Low Volume Road Construction Staking, New River, AZ.** Field Survey Manager. The project tasks were in the form of field and office land surveying tasks related to the construction staking of four existing unimproved roads located in New River, Arizona. Survey tasks included horizontal and vertical control, staking of existing r/w, closed bench loops, referencing centerline monuments, setting cut/fill stakes, bluetopping subgrade and ABC, staking concrete cutoff walls, staking driveways and Temporary Construction Easements, marking sign locations, and setting control for new monuments, then verifying locations and stamping monuments after placement. A ROS was prepared and recorded after review by County.

**Arizona Department of Emergency Military Affairs (DEMA) ALTA Survey, Maricopa, Pima, Santa Cruz, and Cochise Counties, AZ.** Survey Manager. Ardurra was selected to provide field and office survey services related to ALTA Surveys, as well as management and oversight of sub consultants and vendors providing ALTA survey related services, Phase I Environmental Site Assessments, and appraisal (valuation) services for 26 parcels grouped in eight different project areas throughout the state, including five in Maricopa County, and one each in Pima, Santa Cruz and Cochise Counties. Project challenges included coordination of aerial mapping tasks and related ground survey support for remote locations during extended periods of poor weather conditions. Other issues included data acquisition from a variety of sources such as federal (GLO) State Land Department and local (municipal) agencies and scheduling resources over the duration of a compressed schedule. Extensive coordination with all stake holders including client, property owners and their representatives was performed throughout the duration of this task.

**Arizona Department of Emergency Military Affairs (DEMA) ALTA Survey, Various, AZ.** Survey Manager. Ardurra was elected to provide field and office survey services related to ALTA Surveys, as well as, management and oversight of sub consultants and vendors providing ALTA survey related services, Phase I Environmental Site Assessments, and appraisal (valuation) services for 26 parcels grouped in eight different project areas throughout the state including five in Maricopa County, and one each in Pima, Santa Cruz and Cochise Counties.

**GRIC District 2/District 3 Intertie Waterline and Booster Station, Sacaton, AZ.** Survey. Troy provided topographic survey and basemapping (topographic and R/W/parcel) to be used for the preparation of engineering design plans and specifications for approximately four miles of waterline to connect GRIC District 2 with District 3 along Sacaton Rd and the Mawid Subdivision. The project involved topographic survey and design for a new 16-inch waterline along with a water pressure booster station. Troy also prepared topographic survey plot plans in accordance with LUPZ requirements.

**GRIC District 4 Goodyear Water Infrastructure Upgrades, Goodyear, AZ.** Survey. Troy provided topographic survey and basemapping (topographic and R/W/parcel) to be used for the preparation of engineering design plans and specifications for approximately nine miles of waterline in the GRIC District 4 Goodyear area. The project involved topographic survey and design of replacement waterlines for the existing undersized and/or failing pipeline. Troy also prepared topographic survey plot plans in accordance with LUPZ requirements





**RAY MUNOZ, RLS | R/W Plans Specialist**

**Professional Registration:** AZ RLS #53160  
**Education:** AAS Surveying, Phoenix College  
 AAS Civil Engineering, Phoenix College  
 Artillery Surveyor Course (MOS 13S), US Army  
**Years of Experience (Firm/Total):** 1/18

**Corporate Title:** Survey Manager  
**Corporate Responsibilities:** None

**EXPERIENCE SUMMARY**

Ray has 18 years of experience on a variety of surveying projects from record of surveys; ALTA's; topographic; mapping; legal descriptions and exhibits; and construction and boundary surveys for public/private clients. He has managed numerous survey projects and serves Survey Project Manager at Ardurra. He is very experienced with the development of project control and ALTA/NSPS land title survey projects.

**RELEVANT PROJECTS**

**ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services, Statewide, AZ.** Survey Manager. Responsible for mapping, research, boundary analysis, field work, preparation of ROSs and R/W maps for multiple roadway R/W projects. Includes hundreds of corner determinations, setting of new monuments, analysis of existing boundaries, and preparation of multiple survey and R/W maps. Total project lengths for all tasks under this on-call summed to more than 20 miles. Project challenges included rural locales of some of the sites, strict workflows and formatting requirements from ADOT, and the need for complex geometric determinations.

**ASLD Hawes Crossing, Mesa AZ.** Project Manager. Managed an ALTA/NSPS land title survey project for a land swap project with state land.

**Salt River Pima Maricopa Indian Community Pima Center, Scottsdale, AZ.** Project Manager. Managed a variety of survey services, including ALTA/NSPS land title surveys, topographic mapping for design and legal descriptions lease parcels.

**Speedway (7-Eleven), Statewide, AZ.** Project Manager. Managed ALTA/NSPS land title survey projects for acquisitions of property for new fuel stations across the state of Arizona. Included was design topographic mapping services for civil design work.

**City of Glendale On-Call, Glendale, AZ.** Project Manager. Provided a variety of survey services as part of an on-call contract with the City of Glendale. Was the main point of contact for all contract work, including ALTA/NSPS land title surveys, boundary surveys and legal descriptions.

**Cooley Station, Queen Creek, AZ.** Project Manager. Contracted with Fulton Homes to provide all land acquisition survey work for a master-planned community, including providing topographic mapping for design and subdivision platting for all phases.

**Cadence Development, Mesa, AZ.** Project Manager. Provided ALTA/NSPS land title survey, design topographic mapping and platting services for all residential and commercial development projects for the Cadence master planned community.

**ADOT R/W Survey On-Call Task Assignment SR 101L Corridor, Statewide, AZ.** Project Surveyor. Ardurra is currently working with ADOT on the preparation of the Basemapping Plans, the R/W Survey Plans for the SR 101L corridor between Princess Drive and Shea Boulevard. Ardurra performed the field work needed to prepare the ROS in accordance with ADOT's Regional Transportation Plan Freeway Program Design Procedure Memorandum for Surveys and Aerial Mapping.

**SR 97 Modernization Grant, Bagdad, AZ.** Project Surveyor. As a subconsultant, Ardurra is currently working on this R/W project to accurately define the limits of highway R/W that is to be abandoned, to accurately define and monument the new R/W and to accurately define those portions that may be sold/acquired. Ardurra will complete a R/W survey of the project corridor (SR 97 Jct. US 93 to Jct SR 96, 12 miles in length), produce a ROS drawing and R/W Documentation Plans necessary for the future development of the project corridor. Additional tasks that will be required by ADOT is producing a R/W monumentation survey and legal descriptions for Arizona State Land Department regarding new R/W acquisitions and/or abandonments.



JORDAN BOEN | R/W Plans Specialist

**Professional Registration:** None  
**Education:** Land Surveying Courses, Phoenix College  
**Years of Experience (Firm/Total):** 15/16

**Corporate Title:** Survey Party Chief/Survey Technician  
**Corporate Responsibilities:** None

EXPERIENCE SUMMARY

Jordan has 16 years of experience as a survey technician and crew chief. His experience includes topographic surveys for design, boundary surveys, legal surveys, ALTA surveys, Arizona Department of Transportation (ADOT) R/W surveying, and construction surveying services. Jordan's survey experience includes private and public sector projects throughout Arizona.

RELEVANT PROJECTS

**ADOT On-Call Right-of-Way Surveys, Legal Descriptions and Monumentation Services, Statewide, AZ.** Survey Crew Chief. On this on-call Statewide survey contract, projects includes providing field, right-of-way, boundary and monumentation surveys; preparation of ROS; R/W plans; and legal descriptions as detailed and described in project specific task orders.

**Maricopa County Department of Transportation, Candidate Assessment Report On-Call.** Survey Crew Chief. RPA completed over 12 different Candidate Assessment Reports (CARs) for this Maricopa County Department of Transportation (MCDOT) contract. The CAR is extremely similar to the DCR end product in that each involves alternative development, analysis, and selection including cost estimating. A selection of the projects completed as part of this on-call were: MCDOT ADA Transition Plan, MC85 Roadway Improvements, Oversize/Overweight Vehicle Study, 99th Avenue Safety Improvements, and West Valley Salt River Crossings (59th Ave to 99th Ave).

**Flood Control District of Maricopa County 115th Ave & Union Hills Drive Drainage Improvements, Peoria/Surprise, AZ.** Survey Crew Chief. Project included topographic survey basemapping services to support design of channel, storm drain, basin and culvert improvements used to update hydrology/hydraulics, as well as utility coordination and relocation throughout the 5.5-mile-long project area. Field survey work included panel placement for an aerial survey of the project area, as well as supplemental topographic survey data collection for roadways and related hardscape, drainage structures, culverts, basins, and utilities. Many large electric transmission, utility, and drainage easements were inserted into the mapping to create a base from which drainage improvements could be accurately designed. Challenges included gaining permission for entry on several commercial and industrial sites including two sand & gravel operations, two water/wastewater reclamation facilities, an RV park, and several secured municipal parcels.

**Mohave County Reach 601 and Reach 602 Secret Pass Wash, On-Call Mohave County Survey Services, Mohave County, AZ.** Survey Crew Chief. RPA provided land surveying services associated with the Secret Pass Wash (Drainage Reaches 601 through 602). The project was south of the Bullhead Airport facility, and included review of data, research, and pre-field calculations; establishing control utilizing NGS monumentation; locating and verifying existing section corners and other control monuments used to reference the locations at the two drainage reaches; survey analysis and preparation of final monumentation, including recording ROS and R/W plans, and boundary survey.

**ADOT SR 64 R/W, Coconino County, AZ.** Survey Crew Chief. The portion of SR 64 from Williams, AZ to Tusayan, AZ, 53 miles in length, consisted of initial R/W survey by locating sectional control and existing R/W monumentation. This survey was unique in that it contained many bearing trees, line trees, standard and closing corners. A portion of this project was in the National Forest. The project included assisting in the initial survey and the setting of the final R/W monumentation.

**ADOT US 60 R/W, Miami, AZ.** Survey Crew Chief. The portion of US 60 from the Top-of-the-world to Miami, AZ, 9 miles in length, consisted of initial R/W survey by locating sectional control and existing R/W monumentation. The project included assisting in the Final Right-of-Way monumentation by setting final R/W ADOT monuments along the corridor of this project. The terrain was very rough and difficult to get to each of the new monument locations. Many of the monuments were affixed to rocks and boulders that were too big to move at the location of the final monuments.



**From:** [ADOT Business Engagement and Compliance Office](#)  
**To:** [mtnmarketing](#)  
**Cc:** [ContractorCompliance@azdot.gov](mailto:ContractorCompliance@azdot.gov)  
**Subject:** Bidders List for Ardurra Group, Inc.  
**Date:** Tuesday, March 26, 2024 7:32:59 AM

---

**Ardurra Group, Inc.**, AZUTRACS Number: [10953](#) has submitted a Bidder/Proposer list for **2024-016** on 03/26/2024 at 7:32 AM MST (UTC - 07:00).

Ardurra Group, Inc. submitted a blank bidders/proposers list. This means that they did not list any firms that they reached out to or were contacted by during the preparation of this bid/proposal. NOTE: Subbing out work is encouraged, where applicable. Under some circumstances, no subbing opportunities are available.



Our True North: *Safely Home*

Engineering Consultants Section

Katie Hobbs, Governor

Jennifer Toth, Director

Greg Byres, Deputy Director for Transportation/State Engineer

Steve Boschen, Division Director

**Date:** March 19, 2024

**TO:** ALL INTERESTED PARTIES

**SUBJECT:** AMENDMENT NUMBER 01

**REFERENCE:** REQUEST FOR QUALIFICATIONS  
CONTRACT NUMBER 2024-016  
ON-CALL RIGHT OF WAY SURVEYS,  
RIGHT OF WAY PLANS AND MONUMENTATION SURVEYS

The following questions have been asked in reference to the above Request for Qualifications package:

Question 1:

Will Consultant Information Pages be posted with this procurement, or should consultants use the forms posted here: <https://azdot.gov/business/engineering-consultants/forms-and-templates-engineering-consultants>

Answer 1:


The "Consultant Information Pages (CIP)-Race Neutral Contract" can be found at:

<https://azdot.gov/sites/default/files/media/2022/02/Consultant%20Information%20Pages%20-%20Race%20Neutral%20Contract-Rev1.pdf>

Jessica McCall  
Contract Specialist  
Engineering Consultants Section

**AN OFFEROR MUST ACKNOWLEDGE RECEIPT OF THIS AMENDMENT BY SIGNING BELOW AND INCLUDING ALL PAGES OF THIS AMENDMENT IN THE SOQ SUBMITTAL. FAILURE TO DO SO SHALL RESULT IN REJECTION OF THE PROPOSAL.**

Ardurra Group, Inc. \_\_\_\_\_  
CONSULTANT NAME

  
SIGNATURE

\* This amendment is not included in the total page count in the Statement of Qualification submittal.

ARIZONA DEPARTMENT OF TRANSPORTATION  
205 S. 17<sup>th</sup> Ave | MD 616E | Phoenix, AZ 85007 | azdot.gov



**CONSULTANT INFORMATION PAGES (CIP)**

CONTRACT NO.: 2024-016

CONTACT PERSON: Karl Obergh, PE

E-MAIL ADDRESS: kobergh@ardurra.com

TITLE: Director

CONSULTANT FIRM: Ardurra Group, Inc.

ADDRESS: 1001 N. Central Avenue, Suite 900

CITY, STATE ZIP: Phoenix, Arizona 85004

TELEPHONE: 602.263.1177

FAX NUMBER: N/A

DUNS #: 09-298-1521

ADOT CERTIFIED DBE FIRM? (YES/NO)

No

SUBCONSULTANT(S):	TYPE OF WORK	ADOT CERTIFIED DBE FIRM (YES/NO)
None		

**NOTE:** This page is not evaluated by the Selection Panel but is used by Engineering Consultants Section for administrative purposes.

Revised 11/23/2021



**SUBCONSULTANT(S) TABLE:**

SUBCONSULTANT FIRM NAME:	None
CONTACT PERSON:	
E-MAIL ADDRESS:	
TITLE:	
ADDRESS:	
CITY, STATE ZIP:	
TELEPHONE:	
FAX NUMBER:	
DUNS #:	

SUBCONSULTANT FIRM NAME:	
CONTACT PERSON:	
E-MAIL ADDRESS:	
TITLE:	
ADDRESS:	
CITY, STATE ZIP:	
TELEPHONE:	
FAX NUMBER:	
DUNS #:	


**NOTE:** Each Subconsultant listed in the SOQ must be included in the Subconsultant Table of the CIP. Add additional Subconsultant Table pages as necessary. The CIP is not evaluated by the Selection Panel but is used by Engineering Consultants Section for administrative purposes.



**DBE GOAL ASSURANCE/DECLARATION**

This Contract is Race Neutral (No DBE Goal-DBE use encouraged).

By signing below, and in order to submit an SOQ proposal and be considered to be awarded for this contract, in addition to all other pre-award requirement, the consultant/Proposer certifies that they will meet the established DBE goal or will make good faith efforts to meet the goal for the contract and that arrangements with certified DBEs have been made prior to SOQ and/or Cost Proposal submission. The proposer will meet the established DBE goal or will make good faith efforts to meet the goal on each Task Order assignment associated with the contract and that arrangements with certified DBEs have been made prior to SOQ and/or Task Order proposal submission.

  
 \_\_\_\_\_  
 Signature  
**Karl Obergh, PE**  
 \_\_\_\_\_  
 Printed Name

**March 29, 2024**  
 \_\_\_\_\_  
 Date  
**Director**  
 \_\_\_\_\_  
 Title

**SOQ SUBMITTAL CHECKLIST**

Place a check mark on the left side of the table indicating compliance with the following:

✓	Required Page Limit Met
✓	One PDF Document no larger than 15 MB
✓	All Amendments Included
✓	Introduction Letter (Including all required elements/statements)
✓	SOQ Proposal Formatted According to Requirements Listed in Part C and any applicable amendments
✓	Correct SOQ Certification List Signed and Dated by a Principal or Officer of the Firm
✓	Completed Consultant Information Page (Including listing DBE firms, if applicable)
N/A	Supplemental Services Disclosure Form (REQUIRED for Supplemental Services Contract)
✓	All Subconsultants & Proposed Work Type (Including listing DBE firms, if applicable)
✓	Any Additional Required Documents (Specific Requirements in RFQ such as Resumes, etc.)
✓	Commenting or User Rights Feature Enabled in SOQ PDF Document
✓	DBE Goal Assurance/Goal Declaration completed

**NOTE: This page is not evaluated by the Selection Panel but is used by Engineering Consultants Section for administrative purposes.**