

Insurance Provisions continued.....

4. **Builders' Risk Insurance or Installation Floater** \$ 500,000.00  
In an amount equal to the initial Contract Amount plus additional coverage equal to Contract Amount for all subsequent change orders.
- a. The County of Gila, the Contractor, subcontractors, engineer and engineer's consultant and any others with an insurable interest in the work shall be **Insured's** on the policy.
  - b. Coverage shall be written on an all risk, replacement cost basis and **shall include coverage for soft costs, flood and earth movement.**
  - c. Policy shall be maintained until whichever of the following shall first occur: (1) final payment has been made; or, (2) until no person or entity, other than the County of Gila, has an insurable interest in the property required to be covered.
  - d. Policy shall be endorsed such that the insurance shall not be canceled or lapse because of any partial use or occupancy by the County.
  - e. Policy must provide coverage from the time any covered property becomes the responsibility of the Contractor, and continue without interruption during construction, renovation, or installation, including any time during which the covered property is being transported to the construction installation site, or awaiting installation, whether on or off site.
  - f. Policy shall contain a **waiver of subrogation** against the County of Gila.
  - g. Contractor is responsible for the payment of all policy deductibles.

- B. **ADDITIONAL INSURANCE REQUIREMENTS:** The policies shall include, or be endorsed to include, the following provisions:
- 1. On insurance policies where the County of Gila is named as an additional insured, the County of Gila shall be an additional insured to the full limits of liability purchased by the Contractor even if those limits of liability are in excess of those required by this Contract.
  - 2. The Contractor's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.
  - 3. Coverage provided by the Contractor shall not be limited to the liability assumed under the indemnification provisions of this Contract.

INVITATION FOR BIDS  
BID NO. 040615

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Insurance Provisions continued.....

- C. **NOTICE OF CANCELLATION:** Each insurance policy required by the insurance provisions of this Contract shall provide the required coverage and shall not be suspended, voided, canceled, reduced in coverage or endorsed to lower limits except after thirty (30) days prior written notice has been given to the County. Such notice shall be sent directly to Gila county Finance Department, Attn: Jeannie Sgroi, 1400 E. Ash St., Globe, AZ, 85501 and shall be sent by certified mail, return receipt requested.
- D. **ACCEPTABILITY OF INSURERS:** Insurance is to be placed with insurers duly licensed or approved unlicensed companies in the state of Arizona and with an "A.M. Best" rating of not less than B+ VI. The County in no way warrants that the above-required minimum insurer rating is sufficient to protect the Contractor from potential insurer insolvency.
- E. **VERIFICATION OF COVERAGE:** Contractor shall furnish the County with certificates of insurance (ACORD form or equivalent approved by the County) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.
- All certificates and endorsements are to be received and approved by the County before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of work under this Contract and remain in effect for the duration of the project. Failure to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of contract.
- All certificates required by this Contract shall be sent directly to Jeannie Sgroi, 1400 E. Ash St., Globe, AZ, 85501. The County project/contract number and project description shall be noted on the certificate of insurance. The County reserves the right to require complete, certified copies of all insurance policies required by this Contract at any time.
- F. **SUBCONTRACTORS:** Contractors' certificate(s) shall include all subcontractors as additional insured's under its policies or Contractor shall furnish to the County separate certificates and endorsements for each subcontractor. All coverage's for subcontractors shall be subject to the minimum requirements identified above.

INVITATION FOR BIDS  
BID NO. 040615

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*Insurance Provisions continued....*

- G. **APPROVAL:** Any modification or variation from the insurance requirements in this Contract shall be made by the County Attorney, whose decision shall be final. Such action will not require a formal Contract amendment, but may be made by administrative action.

**QUALIFICATION AND CERTIFICATION FORM**

**Purpose**

This exhibit shall serve as a requirement to enable the evaluation team to assess the qualifications of Contractors under consideration for final award.

The information may or may not be a determining factor in award.

**Contract Number 040615 Colcord Road Paving Project**

The Contractor submitting this Bid warrants the following:

1. Name, Address, and Telephone Number of Principal Contractor:

Mangum Civil Constructors, Inc

2514 E Mohawk Ln Suite 107

Phoenix, Az. 85050

2. Has Contractor (under its present or any previous name) ever failed to complete a contract? \_\_\_\_\_Yes  No. If "Yes", give details, including the date, the contracting agency, and the reasons Contractor failed to perform, in the narrative part of this Contract.
3. Has Contractor (under its present or any previous name) ever been disbarred or prohibited from competing for a contract? \_\_\_\_\_Yes  No. If "Yes", give details, including the date, the contracting agency, the reasons for the Contractors disqualification, and whether this disqualification remains in effect, in the narrative part of this Contract.
4. Has a contracting agency ever terminated a contract for cause with Contractor (under your firm's present or any previous name)? \_\_\_\_\_Yes  No. If "Yes", give details including the date, the contracting agency, and the reasons Contractor was terminated, in the narrative part of this Contract.
5. Contractor must also provide at least the following information:
  - a. A brief history of the Contractors Firm.
  - b. A Cost Bid shall be submitted on the Price Sheet, attached hereon and made a full part of this contract by this reference.

INVITATION FOR BIDS  
BID NO. 040615

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Qualification/Certification continued....

- c. A list of previous and current customers, which are considered identical or similar to the Scope of Work described herein; shall be submitted on the Reference List, attached hereon and made a full part of this contract by this reference.
- d. List the specific qualifications the Contractor has in supplying the specified services.
- e. List of any subcontractors (if applicable) to be used in performing the service must accompany the Bid. The subcontractors ROC, contact name and phone # must be included.
- f. Gila County reserves the right to request additional information.

6 **Contractor Experience Modifier (e-mod) Rating in Arizona:** 0.73  
(If Applicable)

A method the National Council on Compensation Insurance (NCCI) uses to measure a business' computed loss ratio and determine a factor, which when multiplied by premium, can reward policyholders with lower losses. E-mod rate may be a determining factor in bid award.

7. **Current Arizona Contractor License Number:** 290160  
(If Applicable)



**Signature of Authorized Representative**

Luke Plante

**Printed Name**

Managing Partner

**Title**

**REFERENCE LIST**

These references are required to enable the evaluation team to assess the qualifications of the Contractor under consideration for final award. The information may be a determining factor in award.

**References**

Please list a minimum of four (4) references for projects of similar size and scope to the as this Invitation for Bids during the past twelve (12) months, in or as close to Gila County as possible.

1. **Company:** Verizon Wireless  
**Contact:** Ryan Jenkins  
**Phone:** 602-309-8284  
**Address:** 126 W Gemini, Tempe, Az. 85283
  
2. **Company:** Wilson Construction  
**Contact:** Max Ryden  
**Phone:** 480-266-7074  
**Address:** 1190 N.W Third, Canby, OR 97013
  
3. **Company:** State Constructors, Inc  
**Contact:** Buddy Randall  
**Phone:** 928-978-0440  
**Address:** 318 W Aero Dr, Payson, Az. 85541
  
4. **Company:** Dream Home Builders  
**Contact:** Jerry Salt  
**Phone:** 801-450-2160  
**Address:** 4208 Nike Dr # H, West Jordan, UT. 84088

Mangum Civil Constructors, Inc

Name of Business



Signature of Authorized Representative  
Luke Plante / Managing Partner

Title

INVITATION FOR BIDS  
BID NO. 040615

PRICE SHEET

Complete and return this form for the total price proposed on this form. Attach any pertinent cost breakdowns, sub-totals of component cost, etc. to this Bid-pricing page.

Vendor Name: Mangum Civil Constructors, Inc. Phone No.: (928) 970-1286

COLCORD ROAD PAVING PROJECT Bid 040615				
Quantity	Unit	Description	Unit Price	Extension
2,833	Tons	Asphaltic Concrete	\$ <u>97.98</u>	\$ <u>277,577.34</u>
TWO HUNDRED SEVENTY SEVEN THOUSAND				
TOTAL BID IN WORDS \$ <u>FIVE HUNDRED SEVENTY SEVEN DOLLARS</u>				
AND 34/100				
*Price to include all applicable taxes and required fees.				
No tax shall be levied against labor. Payment will be made based on actual quantities.				

  
\_\_\_\_\_  
Signature of Authorized Representative

Luke Plante  
\_\_\_\_\_  
Printed Name

Managing Partner / Secretary  
\_\_\_\_\_  
Title

**AFFIDAVIT BY CONTRACTOR  
CERTIFYING THAT THERE WAS NO COLLUSION  
IN BIDDING FOR CONTRACT**

STATE OF ARIZONA )  
 )ss  
COUNTY OF: Maricopa )



Luke Plante  
(Name of Individual)

being first duly sworn, deposes and says:

That he is Managing Partner  
(Title)

of Mangum Civil Constructors, Inc. and  
(Name of Business)

That he is bidding on **Gila County Bid No. 040615 COLCORD ROAD PAVING PROJECT, Payson, AZ.**  
and,

That neither he nor anyone associated with the said \_\_\_\_\_

Mangum Civil Constructors, Inc.  
(Name of Business)

has, directly or indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with the above mentioned project.

Mangum Civil Constructors, Inc

Name of Business

Luke Plante

By

Managing Partner

Title

Subscribed and sworn to before me this 11<sup>th</sup> day of June, 2015.

Jennifer Cordell  
Notary Public

My Commission expires: November 9, 2015



**CERTIFICATION: INTENTIONS CONCERNING SUBCONTRACTING**

At the time of the submission of bids on **BID NO. 040615 COLCORD ROAD PAVING PROJECT**, my intention concerning subcontracting a portion of the work is as indicated below.

In indicating that it is my intention to subcontract a portion of the work, this will acknowledge that such subcontractors will be identified and approved by the County prior to award of contract; and that documentation, such as copies of letters, requests for quotation, etc., substantiating the actions taken and the responses to such actions is on file and available for review. A list of any subcontractors (if applicable) to be used in performing the service must accompany the Bid. The list must include the subcontractors name, address, and phone number. List must be provided in a sealed envelope marked "List of Subcontractors".

- YES**, it is my intention to subcontract a portion of the work.
- NO**, it is not my intention to subcontract a portion of the work.



\_\_\_\_\_  
**Signature of Authorized Representative**

Luke Plante

\_\_\_\_\_  
**Printed Name**

Managing Partner

\_\_\_\_\_  
**Title**

**LEGAL ARIZONA WORKERS ACT COMPLIANCE**

Firm hereby warrants that it will at all times during the term of this Contract comply with all federal immigration laws applicable to Firm's employment of its employees, and with the requirements of A.R.S. § 23-214 (A) (together the "State and Federal Immigration Laws"). Firm shall further ensure that each subcontractor who performs any work for Firm under this contract likewise complies with the State and Federal Immigration Laws.

County shall have the right at any time to inspect the books and records of Firm and any subcontractor in order to verify such party's compliance with the State and Federal Immigration Laws.

Any breach of Firm's or any subcontractor's warranty of compliance with the State and Federal Immigration Laws, or of any other provision of this section, shall be deemed to be a material breach of this Contract subjecting Firm to penalties up to and including suspension or termination of this Contract. If the breach is by a subcontractor, and the subcontract is suspended or terminated as a result, Firm shall be required to take such steps as may be necessary to either self-perform the services that would have been provided under the subcontract or retain a replacement subcontractor, as soon as possible so as not to delay delivery of services.

Firm shall advise each subcontractor of County's rights, and the subcontractor's obligations, under this Article by including a provision in each subcontract substantially in the following form: "Subcontractor hereby warrants that it will at all times during the term of this contract comply with all federal immigration laws applicable to Subcontractor's employees, and with the requirements of A.R.S. § 23-214 (A). Subcontractor further agrees that County may inspect the Subcontractor's books and records to insure that Subcontractor is in compliance with these requirements. Any breach of this paragraph by Subcontractor will be deemed to be a material breach of this contract subjecting Subcontractor to penalties up to and including suspension or termination of this contract."

Any additional costs attributable directly or indirectly to remedial action under this Article shall be the responsibility of Firm.



\_\_\_\_\_  
**Signature of Authorized Representative**

Luke Plante

\_\_\_\_\_  
**Printed Name**

Managing Partner

\_\_\_\_\_  
**Title**

**SURETY (BID) BOND**

(Penalty of this Bond must not be less than 10% of the bid amount)

**KNOW ALL MEN BY THESE PRESENTS,**

that we, the undersigned Mangum Civil Constructors, Inc, as Principal, hereinafter called the Principal, and Mangum Civil Constructors, Inc a corporation duly organized under the laws of the State of Arizona, as Surety, hereinafter called the Surety, holding a certificate of authority to transact surety business in this State issued by the Director of the Department of Insurance, are held and firmly bound unto the Gila County as Obligee, hereinafter called the Obligee, in the sum of ten percent (10%) of the amount bid, submitted by Principal to Gila County for the Work described below, for the payment of which sum well and truly to be made, the said Principal and the said Surety bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

**WHEREAS,** the Principal is herewith submitting its Bid for:

**COLCORD ROAD PAVING PROJECT  
GILA COUNTY, ARIZONA, BID CALL NO. 040615**

**NOW THEREFORE,** if the Obligee, acting by and through its County Engineer, accepts the Bid of the Principal and the Principal shall enter into contract with the Obligee in accordance with the terms of such Bid, and give such bonds and certificates of insurance as may be specified in the contract documents with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter into such contract and give such bonds and certificates of insurance, if the Principal shall pay to the Obligee the difference not to exceed the penalty of the bond between the amount specified in the Bid and such larger amount for which the Obligee may in good faith contract with another party to perform the work covered by the Bid then this obligation is void. Otherwise, it remains in full force and effect provided, however, that this bond is executed pursuant to the provisions of A.R.S. §34-201, and all liabilities on this bond shall be determined in accordance with the provisions of the section to the extent as if it were copied at length herein.

**IN WITNESS WHEREOF,** we hereunto set our hands and seals:

Principal  
MANGUM CIVIL CONSTRUCTORS, INC

By  
Luke Hank

Title  
MANAGEMENT PARTNER

Surety

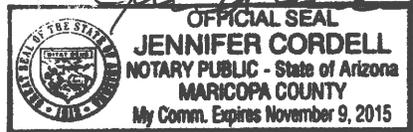
By Attorney-in-Fact

Address, Attorney-in-Fact

Subscribed and sworn to before me

This 11<sup>th</sup> day of June, 2015

My commission expires: November 9, 2015  
Notary Public Jennifer Cordell



INVITATION FOR BIDS  
BID NO. 040615

**BIDDER CHECKLIST & ADDENDA ACKNOWLEDGMENT**

**NOTICE IS HEREBY GIVEN** that all Bid Documents shall be completed and/or executed and submitted with this IFB. If Firm fails to complete and/or execute any portion of the Bid documents, all with original signatures, the IFB may be determined to be "non-responsive" and rejected.

**CHECKLIST:**

<u>REQUIRED DOCUMENT</u>	<u>COMPLETED / EXECUTED</u>
QUALIFICATION & CERTIFICATION FORM	Completed
REFERENCE LIST	Completed
PRICE SHEET	Completed
NO COLLUSION IN BIDDING	Completed
INTENTIONS IN SUBCONTRACTING	Completed
LEGAL ARIZONA WORKERS ACT COMPLIANCE	Completed
ANTI-TERRORISM WARRANTY	Completed <sup>LP</sup> <del>Removed</del>
SURETY "BID" BOND	Completed
CHECKLIST & ADDENDA ACKNOWLEDGMENT	Completed
OFFER PAGE	Completed

**ACKNOWLEDGMENT OF RECEIPT OF ADDENDA:**

	#1	#2	#3	#4	#5
Initials	<u>LP</u>	<u>LP</u>	_____	_____	_____
Date	<u>6/2/2015</u>	<u>6/9/2015</u>	_____	_____	_____

Signed and dated this \_\_\_\_\_ day of \_\_\_\_\_, 2015

Mangum Civil Constructors, Inc  
Firm:  
Luke Plante  
By: 

Each Bid shall be sealed in an envelope addressed to the Gila County Finance Department and bearing the following statement on the outside of the envelope: **Request for Sealed Bids: Bid No. 040615 Colcord Road Paving Project.** All Bids shall be filed with the Gila County Finance Department in the Guerrero Building at 1400 E. Ash St., Globe, AZ on or before **June 12, 2015, by 1100 AM.**

**OFFER PAGE**

**TO GILA COUNTY:**

The undersigned hereby offers and agrees to furnish the material or service in compliance with all terms and conditions, instruction, specifications, and any amendments contained in this Invitation for Bids document.

Signature also certifies the Firms bid Bid is genuine, and is not in any way collusive or a sham; that the bid Bid is not made with the intent to restrict or prohibit competition; that the Firm submitting the Bid has not revealed the contents of the Bid to, or in any way colluded with, any other Firm which may compete for the contract; and that no other Firm which may compete for the contract has revealed the contents of a Bid to, or in any way colluded with, the Firm submitting this Bid.

**CONTRACT NUMBER: 040615 Colcord Road Paving Project**

**Firm Submitting Bid:**

**For clarification of this offer, contact:**

Mangum Civil Constructors, Inc  
Company Name  
2514 E Mohawk Ln Suite 107  
Address  
Phoenix AZ 85050  
City State Zip

Name: Luke Plante  
Phone No.: 928-970-1286  
Fax 602-535-4530  
Email: 602-466-3926



Signature of Authorized Person to Sign

Luke Plante  
Printed Name

Managing Partner  
Title

Bid must be signed by a duly authorized officer(s) eligible to sign contract documents for the Firm.

**ACCEPTANCE OF OFFER**  
(For Gila County use only)

***The Offer is hereby Accepted:***

The Firm Mangum Civil Constructors, Inc is now bound to provide the materials or services listed in IFB No.: 040615 including all terms and conditions, specifications, amendments, etc. and the Firm's Offer as accepted by County/public entity.

The contract shall henceforth be referenced to as Contract No. 040615. The Firm has been cautioned not to commence any billable work or to provide any material or service under this Contract until Firm receives written notice to proceed from Gila County.

**GILA COUNTY BOARD OF SUPERVISORS:**

Awarded this \_\_\_\_\_ day of \_\_\_\_\_, 2015

\_\_\_\_\_  
Michael A. Pastor, Chairman of the Board

**ATTEST:**

\_\_\_\_\_  
Marian Sheppard, Clerk of the Board

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Bryan B. Chambers, Deputy County Attorney/Civil Bureau Chief  
for Bradley D. Beauchamp, County Attorney



## **Mangum Civil Constructors, Inc.**

and Mangum Tower & Communications (A Division of Mangum Civil Constructors, Inc.)

# **Company Profile & Summary**

**Average Total Employees: 35**

**Primary Line of Business: Construction Site Deployment & Development**

**Website: [www.mangum-civil-constructors.com](http://www.mangum-civil-constructors.com)**

**Incorporated: 2011**

**Office Locations: Arizona & Utah**

**Current State Licensing: Arizona, Utah, New Mexico & California.**

**Project Performance Locations: Arizona, Utah, California, Colorado, Maine & Texas**

<b>LICENSING</b>	
<b>State</b>	<b>License # / Class</b>
State of Arizona	<b>License #: ROC290160</b> <b>Class: A-1 – General Engineering License</b>
State of New Mexico	<b>License #: 373068</b> <b>Class: GB-98 – General Building Contractor</b>
State of Utah	<b>License #: 6180242-5501</b> <b>Class: S260</b> <b>License #: 8794962-5551</b> <b>Class: E100</b>
State of California	<b>License #: 956151</b> <b>Class: A – General Engineering Contractor</b>

## **Management Directory & Key Personnel:**

- Luke Plante, Civil Division Manager, Partner
  - Christopher J. Cordell, Director of Operations, Partner
  - Wes Coers, Civil Division Manager, Partner
  - Kelly Webster, Construction Project Manager
  - Bob Griffiths, DC Division Manager
  - Jacob Mills, Fiber / Microwave Division Manager
  - Jennifer Cordell, Project Manager / Environmental Specialist
- 

## **Business Profile:**

The Mangum Group offers a full range of construction and technical services in the construction industry and are an "In-House" builder with our own civil, tower, ac/dc and fiber crews. Mangum offers a full turnkey solution for all of your civil needs. The Mangum Group is a financially stable firm, with experienced and qualified personnel in all aspects of our services. We take pride in our workmanship and it is our goal on every job to offer our clients a clean, top quality finished product, completed on time and in a safe manner. We also work closely with the customer and project engineers in order to provide the most cost effective method of construction for our customer.

The Mangum team is also uniquely qualified for remote access construction. We have extensive experience working on extremely challenging mountain tops from California to Maine. Mangum owns and operate specialized equipment geared for the challenges remote site construction presents, we have capability's to drill and install rock anchors, a mobile concrete batch plant, and lightweight equipment for sites inaccessible by standard methods, to name a few.

## **Past Work Experience:**

Mangum Civil Constructors was the civil contractor for the PSEC Riverside County communication project. Project consisting of 10 communication sites with various scopes such as, access roads, foundations, steel erection, building construction, remote site access, SWPPP, and antenna installation.

Mangum Civil Constructor was the civil contractor for the US Customs and Border Protection – El Paso market. Project consisting of 28 communication sites with various scopes such as helicopter deployment solar site, access roads, foundations, steel erection, remote site access, SWPPP, and antenna installation.

Mangum Civil Constructors currently working on the APS (Arizona Public Service) EHV Loop Transmission Construction Project with Wilson Construction. Project consisting of road and drainage installation, line crew pull stations grading, dust control watering, SWPPP, and finish grade. The APS EHV Loop Transmission Construction project will provide the electrical transmission infrastructure needed to import additional electricity from power plants in and around the Palo Verde Hub. The project is 70 miles long and will be constructed on steel towers, from 130 feet to 150 feet tall. The proposed transmission lines will primarily parallel the Southwest Powerlink (SWPL). By providing an additional high-voltage source, the projects will improve reliability of the Phoenix area's APS system. B T & Associates provided materials testing for soils and concrete on 4 laydown yards. Services have been conducted on 18 acres in Tonapah. The project is broken up into (4) transmission lines and (3) substations and expected to be in service by 2016.

Palo Verde – Delaney 500 kV Transmission Line, 15 miles, this project is anticipated to interconnect generation projects at the Delaney switchyard. This line is also one section of a new 500kV path from Palo Verde around the western and northern edges of the Phoenix area and terminating at Pinnacle Peak.

Delaney – Sun Valley 500 kV Transmission Line, 28 miles, this project will serve projected need for electric energy in the area immediately north and west of the Phoenix Metropolitan area. It will increase the import capability to the Phoenix Metropolitan area as well as increase the export/scheduling capability from the Palo Verde area to provide access to both solar and gas resources. The project will also increase the system reliability by providing a new transmission source to help serve the areas in the western portions of the Phoenix Metropolitan area.

Mangum Civil Constructors was the civil contractor for the Magna Walmart. Project consisting of site excavation, structural excavation, underground utilities, concrete, SWPPP, and finish grade.

Mangum Civil Constructors was the civil contractor for the Provo Walmart Remodel. Project consisting of site excavation, structural excavation, underground utilities, demolition, SWPPP, and finish grade.

**Trades List:**

**Pre-Construction Services:**

- **Environmental Due Diligence** – Includes the completion of Phase 1 Environmental Due Diligence studies and FCC mandated NEPA Checklist studies, including final reports and appendices.
- **Design Services** – Includes Fiber Coordination Design, Zoning Drawings, and Construction Drawings.
- **Site Acquisition Assistance** – Including Landowner Research and Communication and Site Identification
- **Permitting** – Assistance in obtaining building permits from local jurisdictions
- **Power Coordination** – Coordination with local utility providers to obtain new electrical services and assistance in upgrading existing services

**AC/DC & Fiber Equipment Installation:**

- **Power Plant & Battery Install** - Installation of batteries, racks, and accessories to the highest quality standards. Coordination with other onsite resources to ensure timely project completion. Battery replacement and proper disposal with EPA accredited recycler. Acceptance Inspection and Testing of batteries (Necessary for the reliability and ultimate performance of your batteries). Provide all necessary site documentation (Battery Birth/Death Certificates, EMIS and Installation/Initialization testing) for warranty purposes.
- **Equipment Installation** – Includes CDMA/TDMA, PCS, GSM, LTE/AWS(xLTE), Single or Neutral Host DAS, and Small Cell. Equipment integration/optimization. Early Telco and Power Coordination, Head end civil construction, ALU 7705/7750 Installations. Full site preps for all technologies. MRO, MCO, SAR-O, SAR-W and PDU's
- **Fiber Equipment Prep & Install** – SM, MM and Dark fiber. Pull, clean, prep, and test using certified Exfo equipment, OTDR, Scope and proper cleaning methods. Techs are certified to the highest standards in the industry.
- **Back Up Generator Installation** – Site prep, underground location, grounding, conduit, pad install, Generator set, fencing/block and gates. MTS/ATS install. Generator Prep and Startup.

**Full Site Development:**

- **Civil** – Includes Clear & Grub, Site Cut/Fill, Rough and Finish Grading, Road Installation & Improvements

- **Excavation** – Includes: Excavate for Foundations, Import and Place Fill, Compaction, Backfill, Rock Excavation
- **Trenching** – Includes: Trenching for Grounding, Power, Telco, LPG, Conduit, Etc.
- **Utility Installation** – Includes: Install Sewer, Water, Power, Storm Drain, LPG, Power Conduit, Telco Conduit
- **Retaining Systems** – Includes: Landscaping Rock Retaining Walls, Concrete Retaining Walls, CMU Retaining Walls
- **Rock Anchoring System Install** – Air Track Rock Drill & Compressor, and Remote Access Drilling Capacity (Both Mechanically and Hand Drilling Capability's). Anchor pull testing capabilities
- **Interior & Exterior Grounding** – Experienced with R-56 installation standards. Certified R56 Installers on staff
- **Material Delivery and Removal** – In-House Equipment for import and export of materials
- **Equipment Transport** – In-House capability's for heavy haul (up to 55 tons)
- **SWPPP / AQMD Certifications**

#### Concrete:

- **Footings and Foundation Systems** – Own & operate specialized Footing and Foundation Wall Form Systems, with large scale commercial, residential, and retaining system capabilities
- **Tower Foundations** – Pad & Pier Foundations and Caisson Foundations
- **Pad Foundations** – Installation of Building Pad Foundations, Propane Pads, Generator Pads, Stoops, and Stairs
- **Remote Site Concrete Ready Mix Supply** – Own and operate specialized equipment for the cost effective production of Concrete / Ready Mix in remote areas where concrete is not available and for sites where access is a problem. Capable of supplying mix designs for different concrete strengths. Also, have historical data of concrete supplied in the past.

#### Tower, Antenna & Transmission Line:

- **Tower Erection & Dismantling** – Trained and qualified Tower Crews
- **Antenna and Transmission Line Installation**
- **FAA Compliant Tower Lighting Systems**
- **Tower Remediation and Upgrades**
- **Tower and Site Grounding**

- **Monopoles, Self-Support, Guy Towers, Water Towers & Roof Top Installation**
- **Sweep / PIM Testing (testing equipment & certification in house)**
- **Site Audits and Tower Mapping**
- **Guy tower plumb and tensioning. Guy wire replacement. TPT report provided**

**Solar:**

- **Remote Site Installation using helicopters**
- **Solar Panel Racking Installation**
- **Solar panel(s), combiners, disconnects, rectifiers, etc.. install**

**Miscellaneous:**

- **Remote Site Build In-Place Equipment Shelters**
- **Structural Welding & Fabrication – In-House Certified welders, and equipment with specialized welding capabilities**
- **Existing Building Remodels – Upgrades**
- **Remote Site Equipment & Shelter Delivery – Specialized Equipment for the Transport/Delivery of Shelters, Materials to sites that present access challenges**
- **Demolition – Equipment equipped with Hydraulic Hammers for rock excavation and concrete demolition, also equipped for removal of debris.**
- **Utility Coordination (Power & Fiber)**
- **Tenant Improvements (Full TI Build Outs)**