

**Design   Planning   Development   Management**  
**Tucson   Phoenix   Elko**

# Hanlon Engineering + Architecture

Design-Planning-Development-Management  
proudly serving the manufacturing and industrial communities since 1999

## **ARCHITECTURE**

- COMMERCIAL
- CORPORATE
- INDUSTRIAL
- INSTITUTIONAL
- MIXED -USE
- RELIGIOUS



## **ENGINEERING**

- CIVIL
- CONCRETE
- STRUCTURAL
- MECHANICAL
- PIPING
- ELECTRICAL
- INSTRUMENTATION
- CONTROLS SYSTEM
- PROCESS



## **MANAGEMENT**

- PROJECT
- CONSTRUCTION
- ADMINISTRATIVE SUPPORT



**E**stablished in 1999 with Corporate in Tucson, Arizona we have since opened branch offices in Phoenix, Arizona and Elko, Nevada. HEA's success is built on the fundamental model of a full-service in-house Multi-Disciplinary Engineering, Architecture and Management Firm supporting Commercial, Corporate, Industrial, Institutional, Mixed-Use and Religious Architecture.

**N**ationally recognized, a significant portion of our work involves renovation and modernization of existing facilities throughout the United States, Canada, Central and South America. We have achieved recognition by dedicating experienced individuals/teams whose task is to maintain the attention to detail for a project duration resulting in an on time and within budget delivery.

**I**n addition to the Standard Services we also offer Procurement, Capital/Operational Cost Estimating, and our Construction Management program generates up-to-date Executive Reports on Budget, Schedule, and Compliance with Projections through completion.

**H**EA maintains Business Licenses in 7 States to better serve local Clients. We also have individual licensure in 9 states allowing for project mobility. Key Individuals possess National Certifications in Architecture and/or Engineering to quickly obtain licenses in other states as dictated by Client requirements.

**C**omprised of 60 employees, our team has Multi-Disciplinary Engineers, Architects, Interns and Technical Staff. Many Staff have 25 or more years of experience to offer to our Clients. Since its establishment in 1999 we have logged over 1,425 completed Projects that carry a constructed value of over \$1B

# Hanlon



## Contact

### TUCSON - Corporate

2502 N. Huachuca Dr.

Tucson, AZ 85745

p 520.326.0062

f 520.325.0248

### ELKO

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Elko, NV 89801

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### PHOENIX

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Mesa, AZ 85205

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info@hanlonengineering.com

**SINGLE SOURCE** Single Sourcing for Professional A&E Services maintains better Quality Assurance/Quality Control through communication and efficiency. As Industry Experts with cutting edge production and modeling tools we are your single source firm.

## **ARCHITECTURE & ENGINEERING**

BIM

LEED

FEASIBILITY STUDIES

DUE DILIGENCE

PROGRAM DEVELOPMENT

SITE DESIGN

CODE COMPLIANCE

LAYOUT

CONSULTANT COORDINATION

CONSTRUCTION DOCUMENTATION

ADMINISTRATION

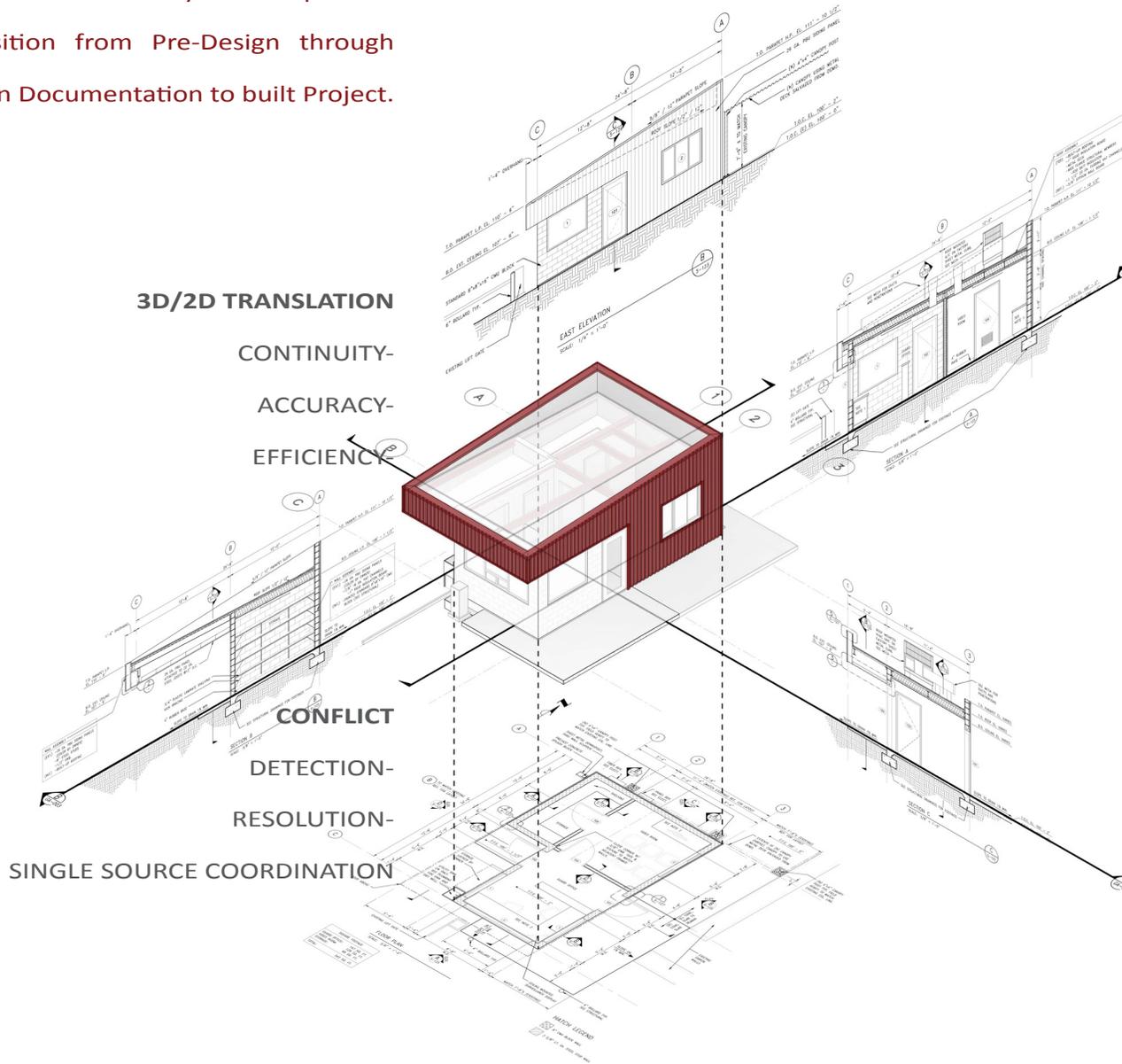
MANAGEMENT

CLOSE-OUTS



Our Professionals use Building Information Modeling software (B.I.M.) to design Projects efficiently and effectively. B.I.M. allows our Team to work simultaneously creating an all-inclusive, information based 3 Dimensional digital model. The inherent accuracy of this process streamlines the transition from Pre-Design through Construction Documentation to built Project.

# B.I.M.



**3D/2D TRANSLATION**

CONTINUITY-  
ACCURACY-  
EFFICIENCY

**CONFLICT**

DETECTION-  
RESOLUTION-

SINGLE SOURCE COORDINATION

**PROJECT**

DEVELOPMENT-  
DESIGN COMMUNICATION-  
VISUALIZATION-  
PRESENTATION-

**CONSTRUCTION DOCUMENTATION**



# HANLON ENGINEERING & ARCHITECTURE

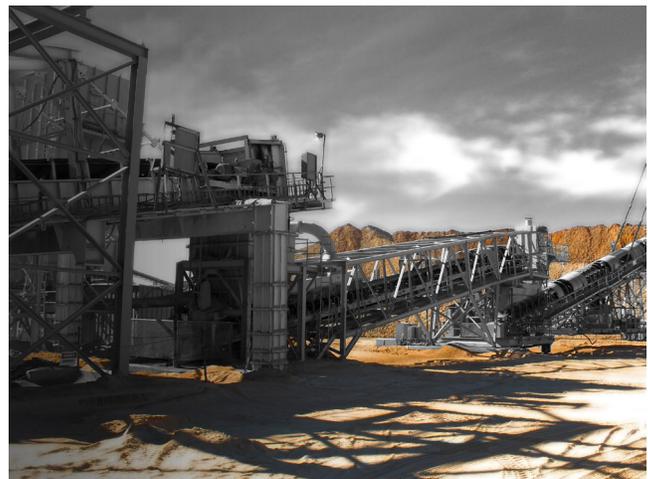
## Additional services include but are not limited to:

- Metallurgical & Process Engineering
- Feasibility Studies / Due Diligence
- Metallurgical Test Programs
- Geological & Ore Reserves
- Mining & Mine Planning
- Site Development
- Mine Process Plants & Facilities
- Chemical Process Systems
- Crushing, Conveying, & Milling
- Treatment Plants for Industrial & Mine Waste Water Permitting
- Environmental Impact Statement (EIS) Support
- Reverse Osmosis
- Ion Exchange
- Electrical Power Transmission & Distribution
- Pumping Systems
- Tankage
- Heating & Ventilation
- Filtering Systems
- Dust Collection



## To date the industries we serve include:

- Base Metals
- Precious Metals
- Industrial Minerals
- Solar Energy Facilities
- Industrial, Manufacturing & Facility Engineering Services
- Chemical & Polymers
- Water, Wastewater & Water Resources
- Power Transmission & Distribution
- Pharmaceutical & Biotechnologies
- Schools, Education facilities
- Food & Consumer Products
- Project & Construction Management Service



# HANLON ENGINEERING & ARCHITECTURE

## Mining – Mineral Resources

HEA provides process engineering, engineering analysis and design, and construction management services to the Base Metals (copper, lead, zinc, aluminum...), Precious Metals (gold, silver, platinum, palladium...) and Industrial Minerals (lime, cement, feldspar, clays, high purity silica sands...) industries. HEA can develop a project from conception, to feasibility study and detail engineering phases, through construction.



## Power Transmission & Distribution

We provide engineering calculations and designs utilizing ETAP Electrical Power System Design Software for the design and optimization of power transmission and distribution systems, including arc flash, load flow, short circuit and transient stability analysis. We use PLS-CADD software to design the transmission line and optimize pole locations, sag and tension. HEA's plans and specifications will conform to local building and electrical codes and MSHA health and safety requirements.



## Alternative Energy - Solar, Wind & Geothermal

HEA provides services ranging from resource evaluation, process design & detail engineering, through procurement, construction management and commissioning to a variety of industry sectors. Our team offers support through the planning, implementation and maintenance of renewable energy facilities and working environments. A significant portion of our work involves the renovation, modernization and optimization of existing facilities and systems.



## Industrial, Manufacturing & Facilities Engineering

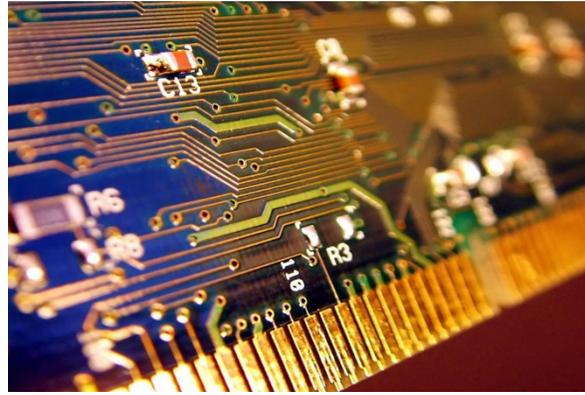
We provide engineering, procurement and construction management to a variety of industry sectors. Our team offers support through the planning, implementation and maintenance of processes, facilities and working environments. A significant portion of HEA's work involves the renovation, modernization and optimization of existing facilities and systems.



# HANLON ENGINEERING & ARCHITECTURE

## Technology

We provide our technological clients with A/E and facility engineering, procurement, and construction management services. We support our clients and optimize their systems to remain competitive by applying our design expertise, project management team integration, and rapid responsiveness. We provide tool installation design, base build expansions, retrofits, facility maintenance, and a variety of small capital improvement projects.



## Telecommunications

HEA provides our clients with engineering services that maintain constant communication on and off sites. Through our professional support we optimize telecommunication systems to remain safe and efficient by applying our project expertise, integrated management practices, and client response. We provide feasibility studies, equipment installation design, network master expansions, retrofits, facility maintenance programs, and a variety of quality economic solutions for all size projects.



## Food & Consumer Products

Our Team provides our clients with A/E and facility engineering, procurement, and construction management services. With complete engineering services and our specialized expertise we provide innovative solutions for automation and line efficiency to system installation design, expansions, retrofits, facility maintenance, and a variety of small capital improvement projects.

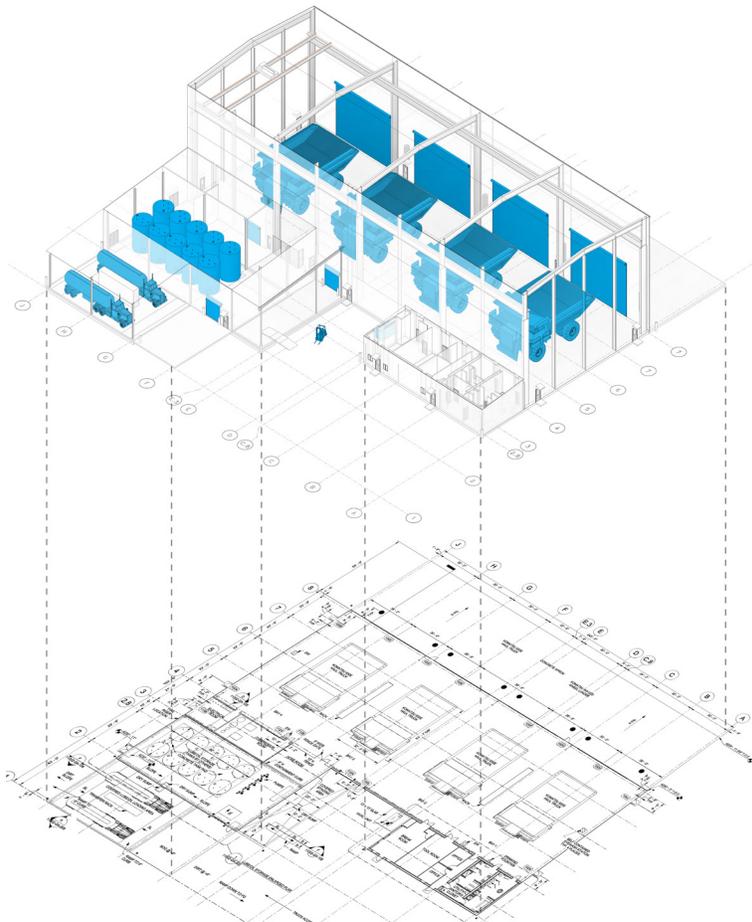


## Water, Wastewater & Water Resources

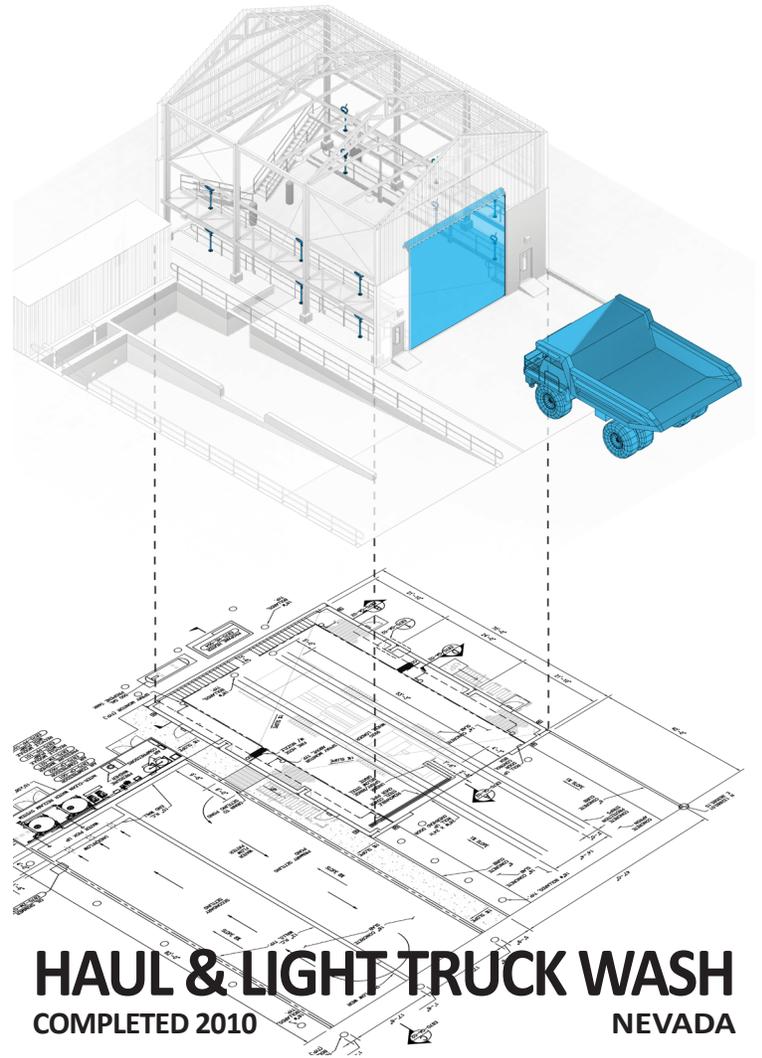
We specializes in providing engineering, procurement and construction management services to our private and municipal clients. We assemble a team of experienced and knowledgeable scientists, engineers, and process and regulatory specialists to provide practical, proactive solutions. Our water supply team provides services from initial concept to final commissioning for treatment, filtrations, distribution, pumping and storage. In addition, our team is meeting the enhanced accountability requirements through automated reporting, SCADA systems designs and improvements.



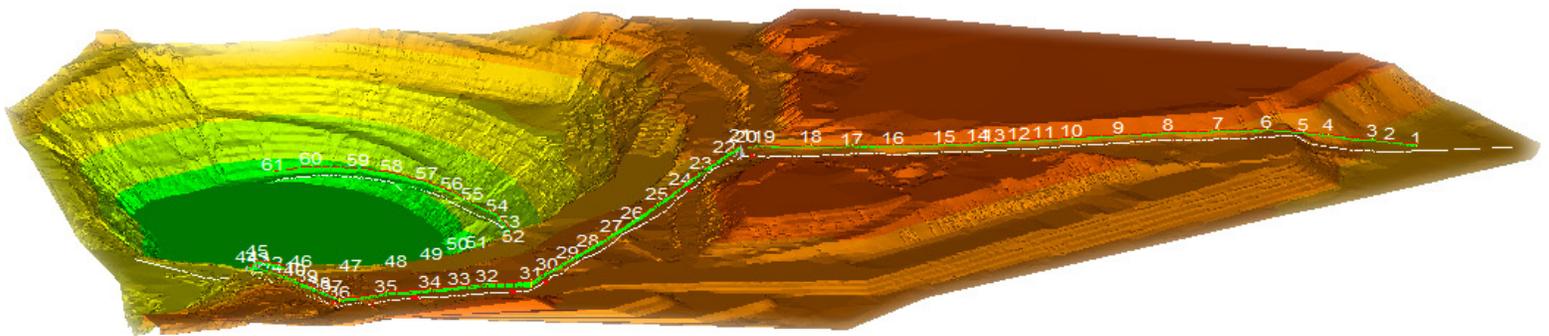
# HANLON ENGINEERING & ARCHITECTURE



**HAUL TRUCK MAINTENANCE**  
COMPLETED 2011 NEVADA



**HAUL & LIGHT TRUCK WASH**  
COMPLETED 2010 NEVADA



**POWER DISTRIBUTION**

UNDER CONSTRUCTION NEVADA



**COPPER MILL EXPANSION**  
SOUTHERN ARIZONA  
UNDER CONSTRUCTION





Design

Planning

Development

Management



**Tucson**

Phoenix

Elko

 [www.hanlonengineering.com](http://www.hanlonengineering.com) |