

23B09 - EXHIBIT 1 - PROJECT MANUAL

PROJECT MANUAL FOR:

Mohave County

Pine Street Jail Demolition

Kingman, Arizona

PREPARED BY:

SELBERG ASSOCIATES, INC.

ARCHITECTURE & PLANNING

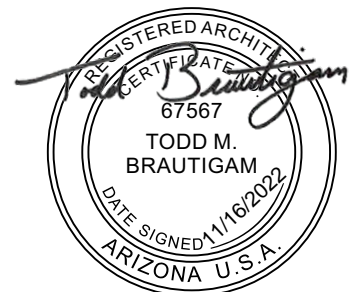


TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

01 11 00	Summary of Work
01 12 16	Work Sequence
01 14 19	Contractor's use of Premises
01 26 13	Request for Interpretation
01 29 00	Payment Procedures
01 29 73	Schedule of Values
01 29 76	Application for Payment
01 29 83	Testing & Laboratory Services
01 33 00	Submittal Procedures
01 33 00	Digital Data Letter Agreement
01 40 00	Quality Requirements
01 50 00	Temporary Facilities and Controls
01 70 00	Execution and Closeout Requirements
01 73 00	Execution Requirements

DIVISION 02 – EXISTING CONDITIONS

02 41 13	Selective Demolition
----------	----------------------

APPENDIX

APPENDIX A	Occupational Safety and Health Administration [OSHA] Demolition Standards
APPENDIX B	Memorandum in Review of Pine Street Jail Demolition

**SECTION 01 11 00
SUMMARY OF WORK**

1.1 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project: Project consists of demolishing the Mohave County Pine Street Jail that has already been vacated, located at 415 Pine Street, Kingman, AZ.
- B. Complete demolition of building including retaining wall and foundation described in Construction Document.

1.2 DEFINITIONS PERTAINING TO THE CONTRACT DOCUMENTS

- A. Provide: To furnish and install.
- B. Cap: To demolish and stabilize using caps or other acceptable means. Utility connection (water, sewer, gas, electricity, etc.) from the building utility to 5 feet outside the building limit.
- C. "As shown", "as detailed", "as indicated" or words of similar import mean as indicated on the drawings
- D. "As selected", "as approved" or words of similar import mean as selected by, as approved by, or as accepted by the Architect and Owner.
- E. "Approved equal", "or equal" shall mean as approved and accepted by the Architect and Owner.
- F. "Shall" means mandatory.
- G. "As required" means as required by the contract documents.
- H. "As necessary" means essential to the completion of the work.
- I. "Concealed" means not visible in the finished work.
- J. "Exposed" means visible in the finished work.
- K. "Days" means calendar days.
- L. "Working Days" means workdays and does not include legal holidays.
- M. Substantial Completion: That stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

1.3 CONTRACTOR USE OF SITE

- A. General: Contractor shall have full use of the site within Contract Limit Lines indicated for construction operations during the construction period.
 - 1. Special care shall be taken to secure the site within the Contract Limit Lines to prevent access by the public.
- B. Emergency Building Exits During Construction: Comply with Code requirements for exiting requirements during construction. Exit doors and pathways indicated on drawings shall be maintained during the entire course of construction.

1.4 PERMITS, FEES, AND NOTICES

- A. Plan check fees have been paid by the Owner.
- B. The Contractor shall secure and pay for the demolition permit and for other permits and governmental fees, licenses, and inspections necessary for the proper execution and

completion of the Work which are customarily secured after execution of the Contract, and which are legally required at the time the bids are received or negotiations concluded. This shall include, but not be limited to:

1. Demolition Permit from the City of Kingman, Arizona.
 2. Inspections and Certificates from State Fire Marshal.
 3. Other Permits as may be imposed by agencies having authority.
 4. Utility connection and service fees.
- C. The Contractor shall comply with and give notices required by laws, ordinances, rules, regulations, and lawful orders of public authorities bearing on the performance of the Work.
- D. It is not the responsibility of the Contractor to make certain that the Contract Documents are in accordance with applicable laws, statutes, building codes and regulations. If the Contractor observes that any of the Contract Documents are at variance therewith in any respect, he shall promptly notify the Architect and Owner in writing, and any necessary changes shall be accomplished by appropriate Modification.
- E. If the Contractor performs Work knowing it to be contrary to such laws, ordinances, rules, and regulations, including, but not limited to the following, and without such notice to the Architect and Owner, the Contractor shall assume full responsibility therefore and shall bear attributable costs. Work shall comply with the following:
1. Codes, Ordinances, Rules, and Regulations, as adopted:
 - a. 2018 International Building Code with local amendments
 - b. 2018 International Mechanical Code with local amendments
 - c. 2018 International Plumbing Code with local amendments
 - d. 2018 International Fuel Gas Code
 - e. 2018 International Fire Code
 - f. 2018 International Code Council Electrical Code Administrative Provisions
 - g. 2017 National Electrical Code
 - h. 2010 ADAAG Manual
 2. Contractor shall maintain current copies of each of the codes listed in 1.6, E, 1. on-site and available for use at the Contractors field office.

1.5 SPECIAL SITE CONDITIONS

- A. The Contractor shall be completely responsible for protecting any existing site and street improvements, including utilities indicated to remain and adjacent to new construction from damage and/or injury due to this Work and shall repair at his expense and to the Architect's satisfaction, all areas damaged because of his Work.
- B. Abatement of asbestos and lead will be complete prior to General Contractors notice to proceed.

1.6 ARCHITECTURAL BARRIERS

- A. It is the desire of the Owner that the activities required under this Contract meet or exceed the intent of applicable public law concerning prohibition of discrimination, and that no individual be discriminated against based on disability in the full and equal enjoyment of the goods, services, facilities, privileges, advantages, or accommodations of this completed Project.
- B. The designers and drafters of these Documents have intended to incorporate those Owner's intentions into these Documents.

1.7 REPRODUCTION OF DRAWINGS

- A. Contractor shall not alter the size of Drawings when making or ordering reproductions.
- B. Only full-size, current Drawings shall be maintained at the Project Site.

1.8 COMMUNICATIONS

- A. All communications with the Architect shall be copied to the Owner's Representative.
- B. All communications with the Architect's consultants shall be through the Architect.

1.12 CONTRACTORS USE OF ARCHITECTS DIGITAL DATA

- A. Refer to Section 01 33 00 – Submittal Procedures.

END OF SECTION

**SECTION 01 12 16
WORK SEQUENCE**

PART 1 - GENERAL

1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

- A. Summary of Work - Section 01 11 00.
- B. Contractor's Use of Premises - Section 01 14 19.

1.02 WORK SEQUENCE

- A. Construction work of this contract shall begin on or before a date to be specified in a written Notice to Proceed to the Contractor and issued by the Owner.
- B. COMPLETION OF THE WORK
 - 1. Upon receipt of written notice to Proceed work shall continue without interruption until final completion and within the stipulated calendar days defined under Article 9 of the Information to Bidders.

PART 2 - PRODUCTS - NOT USED

PART 3 – EXECUTION - NOT USED

END OF SECTION

**SECTION 01 14 19
CONTRACTOR'S
USE OF PREMISES**

PART 1 - GENERAL

1.01 REQUIREMENT

A. Contractor use of premises:

1. Confine operations at site to areas permitted by:
 - a. Permits.
 - b. Contract Documents.
2. Do not unreasonably encumber Site with materials and equipment.
3. Assume full responsibility for protection and safe keeping of products stored on premises.
4. Do not load structure with weight that will endanger structure.
5. Obtain and pay for use of additional storage or work areas needed for operations.
6. Limit use of Site for Work and storage:
 - a. Limit outside construction activities to area designated on the drawings.
7. Seal off and fence off areas during construction for security and to prevent dust particles and noise from entering adjacent areas occupied by the Owner. A maximum noise level of NC-35 will be allowed between areas during school hours.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

SECTION 01 26 13
REQUESTS FOR INTERPRETATION

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: Administrative requirements for requests for information / interpretation.

1.2 DEFINITIONS

- A. Request For Information / Interpretation (RFI):
1. A document submitted by the Contractor requesting clarification of a portion of the Contract Documents, hereinafter referred to as RFI.
 2. A properly prepared request for information / interpretation shall include a detailed written statement that indicates the specific Drawings or Specification in need of clarification and the nature of the clarification requested.
 - a. Drawings shall be identified by drawing number and location on the drawing sheet.
 - b. Specifications shall be identified by Section number, page and paragraph.
 3. Requests for Information: Request made by Contractor concerning items not indicated on Drawings or contained in the Project Manual that is necessary to properly perform the Work.
 4. Requests for Interpretation: Request made by Contractor in accordance with Owner's Representative's third-party obligations to the contract for construction.
- B. Improper RFI's:
1. RFI's that are not properly prepared.
 2. Improper RFI's will be processed by the Architect at the Architect's standard hourly rate and Architect will charge the Owner, and such costs will be deducted from monies still due the Contractor. The Contractor will be notified by the Architect prior to the processing of improper RFI's.
- C. Frivolous RFI's:
1. RFI's that request information that is clearly shown on the Contract Documents.
 2. Frivolous RFI's may be returned unanswered or may be processed by the Architect at the Architect's standard hourly rate and Architect will charge the Owner, and such costs will be deducted from monies still due the Contractor. The Contractor will be notified by the Architect prior to the processing of frivolous RFI's.

1.3 CONTRACTOR'S REQUESTS FOR INFORMATION

- A. RFI's shall be submitted on Document 00 63 13 included in the Project Manual, or similar form prepared by the Contractor and approved by the Architect prior to use.
1. Forms shall be completely filled in, and if prepared by hand, shall be fully legible.
 2. RFI's shall be submitted in numerical order with no breaks in the consecutive

- numbering.
3. Each page of attachments to RFI's shall bear the RFI number and shall be consecutively numbered in chronological order.
 4. RFI's shall be submitted by E-Mail or digital file transfer.
 - a. Address for E-Mail will be distributed by the Architect at the Pre-Construction Conference.
 - b. An electronic version of Document 00 63 13 will be provided upon request.
- B. When the Contractor is unable to determine from the Contract Documents, the material, process, or system to be installed, the Architect shall be requested to make a clarification of the indeterminate item.
- C. RFI's shall be originated by the Contractor.
 1. RFI's from subcontractors or material suppliers shall be submitted through, reviewed by, and signed by the Contractor prior to submittal to the Architect.
 2. RFI's from subcontractors or material suppliers sent directly to the Owner's Representative, Architect or the Architect's consultants shall not be accepted and will be returned unanswered.
- D. Contractor shall carefully study the Contract Documents to assure that the requested information is not available therein. RFI's which request information available in the Contract Documents will be deemed either "improper" or "frivolous" as noted above.
- E. In cases where RFI's are issued to request clarification of coordination issues, for example, pipe and duct routing, clearances, specific locations of work shown diagrammatically, and similar items, the Contractor shall fully lay out a suggested solution using drawings or sketches drawn to scale and submit same with the RFI. RFI's which fail to include a suggested solution will be returned unanswered with a requirement that the Contractor submit a complete request.
- F. RFI's shall not be used for the following purposes:
 1. To request approval of submittals
 2. To request approval of substitutions,
 3. To request changes which are known to entail additional cost or credit. (A Change Order Request form shall be used.)
 4. To request different methods of performing work than those drawn and specified.
- G. In the event the Contractor believes that an RFI response by the Architect results in additional cost or time, Contractor shall not proceed with the work indicated by the RFI until a Change Order (or Construction Change Directive, if applicable to the Project) is prepared and approved. RFI's shall not automatically justify a cost increase in the work or a change in the Project schedule.
 1. Answered RFI's shall not be construed as approval to perform extra work.
 2. Unanswered RFI's will be returned with a stamp or notation "Not Reviewed".

- H. Contractor shall prepare and maintain a log of RFI'S, and at any time requested by the Architect, Contractor shall furnish copies of the log showing outstanding RFI'S. Contractor shall note unanswered RFI's in the log.
- I. Contractor shall allow up to 5 working days review and response time for RFI'S, unless review is required of multiple consultants, then the review and response period shall be 7 working days.
 - 1. The Architect will endeavor to respond to RFI's in a timely manner.
 - 2. RFI shall state requested date/time for response, however, this requested date/time for response is not a guarantee that the RFI will be answered by that date/time if that date/time is too expeditious.
 - 3. Architect may request additional time when deemed necessary.

1.4 ARCHITECT'S RESPONSE TO RFI'S

- A. Architect will respond to RFI's as follows:
 - 1. Answers to properly prepared RFI's will be made directly upon the RFI form and will be returned via E-Mail or digital file transfer. Architects' response may include supplemental information such as Drawings, Sketches, Supplementary Instructions, Product Data Sheets, Specifications, etc. as deemed necessary to provide requested information.
 - 2. Improper or Frivolous RFI's
 - a. Notification of Processing Fee(s).
 - b. Unanswered RFI's will be returned with a stamp or notation: "Not Reviewed."

END OF SECTION

**SECTION 01 29 00
PAYMENT PROCEDURES**

1.1 SCHEDULE OF VALUES

- A. With first Application for Payment, submit three (3) copies of completed AIA Document G703 Continuation Sheet indicating the scheduled value of major categories and subcontracts for the Work, for approval of the Architect.
- B. For each item, provide a column for listing:
1. Item number
 2. Description of Work
 3. Scheduled Value
 4. Previous Applications
 5. Work in Place and Stored Materials under this Application
 6. Authorized Change Orders
 7. Total Completed and Stored to Date of Application
 8. Percentage of Completion
 9. Balance to Finish
 10. Retainage.

1.2 PAY REQUEST

- A. The form of Application for Payment shall be a notarized AIA Document G702, Application and Certification for Payment, supported by approved AIA Document G703, Continuation Sheet. A minimum of three (3) original copies of these forms shall be submitted for each application. Submit additional copies if requested by the Owner or Architect.
1. Present required information in typewritten form or on electronic media printout.
 2. Execute certification by signature of authorized officer.
 3. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored products.
 4. List each authorized Change Order as an extension on continuation sheet, listing Change Order number and dollar amount as for an original item of Work.
- B. With each Application for Payment submit lien releases for the previous payment, substantiation for stored materials, monthly progress reports and updates, and any other pertinent items required by the Owner or Architect and identified during the Pre-Construction Conference.
1. AIA Documents G706, Contractor's Affidavit of Payment of Debts and Claims, G706-A, Contractor's Affidavit of Release of Liens, Documents G707, Consent of Surety Company to Final Payment shall be used.
 2. If appropriate, G707-A, Consent of Surety to Reduction in or Partial Release of Retainage shall be used.
- C. When acceptable to the Owner, the Contractor may submit for payment on properly stored materials not yet incorporated into the work. Materials stored on the site must be in a secured area and be protected from damage, weather, theft, or vandalism. The Contractor shall be responsible for replacing any damaged or missing materials.

- D. Materials stored off the job site must be in the supplier's storage area, separated from other materials, and clearly labeled for this project. Insurance certificates for the material naming the Owner as an additional insured, loss payee shall be delivered with the pay request.

END OF SECTION

**SECTION 01 29 73
SCHEDULE OF
VALUES**

PART 1 - GENERAL

1.01 REQUIREMENT

- A. Submit to the Architect a Schedule of Values allocated to the various portions of the work, within ten (10) days after receipt of Notice to Proceed.
- B. Upon request of the Architect, support the values with data which will substantiate their correctness.
- C. The Schedule of Values, unless objected to by the Architect or Owner, shall be used only as the basis for the Progress Schedule and Contractor's Applications for Payment.

1.02 FORM AND CONTENT OF SCHEDULE OF VALUES

- A. Type the schedule on 8-1/2" x 11" white paper. Identify schedule with the following:
 - 1. Project title and number.
 - 2. Location.
 - 3. Name and address of Contractor.
 - 4. Architect and Owner.
 - 5. Date of Submission.
- B. Schedule shall list the installed value of the component parts of the work in sufficient detail to serve as a basis for computing values for progress payments during construction.
- C. Follow the Index of Specifications of this Project Manual as format for listing component items. Identify each line item with the number and title of the respective major section of the specifications.
- D. For each major line-item list sub-values of major products or portions under the item.
- E. For various portions of the work:
 - 1. Each item shall include a directly proportional amount of the contractor's overhead and profit, mobilization, and preparatory costs.
- F. The sum of all values listed in the schedule shall equal the total Contract Sum.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

End of Section

**SECTION 01 29 76
APPLICATION FOR
PAYMENT**

PART 1 - GENERAL

1.01 REQUIREMENT

- A. Submit Applications for Payment to Architect in accord with the schedule established by Conditions of the Contract and Agreement between Owner and Contractor.
- B. Related requirements specified elsewhere:
 - 1. Progress Payments, Retainages and Final Payment: Conditions of the Contract.
- C. Related requirements specified in other sections:
 - 1. Schedule of Values - Section 01 29 73.
 - 2. Closeout Procedures- Section 01 77 00.

1.02 FORMAT AND DATA REQUIRED

- A. Submit itemized applications typed on AIA Document G702, Application and Certificate for Payment and continuation sheets G703.

1.03 PREPARATION OF APPLICATION FOR EACH PROGRESS PAYMENT

- A. Application Form:
 - 1. Fill in required information, including closing date of the submitted application.
 - 2. Fill in summary of dollar values to agree with the respective totals indicated on the continuation sheets.
 - 3. Execute certification with the signature of a responsible officer of the Contractor.
- B. Continuation Sheets:
 - 1. Fill in total list of all scheduled component items of Work, with item numbers and the scheduled dollar value for each item.
 - 2. Fill in the dollar value in each column for each scheduled line item when work has been performed or products stored. Round off values to nearest dollar.
 - 3. List each Change Order fully executed prior to the closing date of the submission at the end of the continuation sheets.
 - 4. List by Change Order Number and description as for an original component of work.
- C. Certificate for Payment:
 - 1. The Architect shall fill in the required information after reviewing the G702 for completeness and correctness and verifying that the inspector has initialed and dated the G702.
 - 2. The completed Certificate for Payment should include the typed corporation name and representative's signature of both the Architect and Contractor. The

date here is to be the date each signature is affixed.

1.04 SUBSTANTIATING DATA FOR PROGRESS PAYMENTS

- A. Attach to the G703's a schedule of all material stored on the site, which are included thereon. This schedule should indicate the monthly status of those materials. The first time the materials appear on the schedule, one copy of the invoice, shipping ticket or other substantiating document should be attached to the schedule.
- B. For sensitive materials which are not stored on the site for which the Contractor requests payment, the following procedure shall be precisely followed to request such approval. The Contractor shall submit a letter through the Architect to the Owner so that it is received by the Owner no later than the 20th of the month. The letter shall forward one copy of the invoice for the materials, invoice number and amount. The letter shall be signed by a responsible officer of the Contractor stating that the following responsibilities are certified:
 - 1. That this material now stored in our warehouse will be installed on this project.
 - 2. That it is covered by our insurance while so stored.
 - 3. That it will be transported to the site.
 - 4. That it is physically identified as property for this project.
- C. Those items for which Owner provides written approval may be included with that month's Application for Payments.
- D. Submit updated progress schedule with each application for payment.

1.05 PREPARATION OF APPLICATION FOR FINAL PAYMENT

- A. Fill in Application form as specified for progress payments.
- B. Use continuation sheet for presenting the final statement of accounting.

1.06 SUBMITTAL PROCEDURE

- A. Submit Application for Payment to Architect at the times stipulated in the Agreement.
- B. When the Architect finds the application properly completed and correct, he will prepare the Certificate for Payment and transmit them to the Owner for payment.
- C. Number: Five copies of each Application and Certificate.
- D. The Contractor and Architect must coordinate the processing of the Application and Certificate so that the properly executed documents are received by the Owner by the first day of the month.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

**SECTION 01 29 83
TESTING &
LABORATORY
SERVICES**

PART 1 - GENERAL

1.01 REQUIREMENTS

- A. The Contractor will provide the services of an independent Testing Laboratory approved by the Architect to perform specified testing for passing tests.
 - 1. Contractor shall call and cooperate with the laboratory to facilitate the execution of its required services.
- B. Related requirements:
 - 1. Certification of Products: The respective sections of the specifications.
 - 2. Laboratory tests required and standards for testing: the respective sections of the specifications.
- C. Where tests are conducted during construction, the Contractor will be provided with two copies of the test. Additional copies will be furnished to the Architect and Owner's representative.

1.02 LIMITATIONS OF AUTHORITY OF TESTING LABORATORY

- A. The Laboratory is not authorized to relieve, revoke, alter or enlarge on requirements of Contract Documents, approve or accept any portion of Work, or perform any duties of the Contractor.

1.03 CONTRACTOR'S RESPONSIBILITIES

- A. The Contractor shall obtain and pay for all testing that may be necessary to qualify materials for use in the work and all other testing required herein. This shall include material quality test mix designs, equipment and plant calibration, sieve analysis, Atterberg limits, swell potential, optimum moisture, and other similar tests, required to qualify materials for compliance with the specifications or provide standards for field control tests and all other testing required herein. The contractor shall submit test results to the Architect sufficiently in advance of the work so that approval to proceed is received by the Contractor prior to using the material in the work.
- B. Samples of material required for testing shall be furnished by the Contractor.
- C. The Contractor is responsible for coordinating with the Inspector and requesting all testing, including field-testing paid for by the Owner.
- D. Secure and deliver to the laboratory adequate quantities of representational samples of Materials proposed to be used and which require testing.
- E. Provide to the laboratory the preliminary design mix proposed to be used for concrete and other materials mixes, which require control by the testing laboratory.
- F. Furnish copies of products test reports as required.
- G. Furnish incidental labor and facilities:
 - 1. To provide access to Work to be tested.

2. To obtain and handle samples at the Project site or at the source of the product to be tested, as directed by laboratory personnel.
 3. To facilitate inspections and tests.
 4. For storage and curing of testing samples.
- H. The Contractor shall notify the laboratory and owner representative sufficiently in advance of operations to allow for laboratory assignment of personnel and scheduling of tests.

PART 2 - PRODUCT - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

DIGITAL DATA LETTER AGREEMENT

An Agreement between the Architect and _____ (the "Transferee," either Original or Third Party, as the case may be) for Transfer of Digital Data

Architect: Selberg Associates, Inc.
2130 Mesquite Ave. Suite 204
Lake Havasu City, Arizona 86403
Contact: Todd Brautigam, AIA, NCARB

Transferee:

Contract No.:
Project No.: 21092
Project Name: Mohave County Legal Center
Location: Kingman, Arizona
Date: -----

The Architect will provide the following Digital Data, dated as of the particular transmission, to the Transferee **for information purposes only:**

Digital Data was prepared using the following:

Software: AutoCAD (.dwg), Word

Digital Data to be delivered via the following media: Email or Google Drive

TERMS AND CONDITIONS

1. The Architect and its consultants make no representation as to the compatibility of the Digital Data with any hardware or software. The Transferee shall notify the Architect within five (5) business days of any problems associated with accessing and/or using the Digital Data.
2. The Transferee acknowledges and agrees that the Digital Data can be modified unintentionally or otherwise. The Transferee acknowledges and agrees that the Architect and its consultants may remove all indications of ownership from the Digital Data prior to transmission.
3. All Digital Data shall be considered the property of the Architect and/or its consultants and shall not be used for other Projects, for additions to this Project, or for completion of this Project without the prior written permission of the Architect and/or its consultants. Digital Data shall not be re-transmitted by the Original Transferee to a Third-Party Transferee without prior execution of an agreement identical to this Agreement between the Architect, the Original Transferee, and the Third-Party Transferee. Under no circumstances shall the transmission of the Digital Data be considered a sale of goods or a sale of copyrights.
4. **THE ARCHITECT AND THE ARCHITECT’S CONSULTANTS HEREBY EXPRESSLY DISCLAIM ANY AND ALL WARRANTIES, BOTH EXPRESS AND IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED**

WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AS WELL AS ANY WARRANTY OF ACCURACY, COMPLETENESS, AND/OR PERMANENCE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

Addenda information and/or revisions made to the most current Digital Data after any date of transmission may not have been incorporated into the transmitted Digital Data. The Architect may update the Digital Data and give notice to authorized parties as is consistent with the Architect's professional skill and care and the orderly progress of the Work. In the event of a conflict between the Architect's printed instruments of service (whether sealed or not) and the Digital Data, the printed instruments of service shall govern. The Transferee acknowledges and agrees that the duty to determine the existence of any and all conflicts between the Digital Data and any other information upon which the Transferee relies rests solely upon the Transferee. The Digital Data shall not be considered Contract Documents or Construction Documents as defined by any General Conditions of Contract for Construction.

5. The use and/or provision of the Digital Data prepared by the Architect and/or its consultants shall not in any way reduce or obviate the Transferee's duty to check and coordinate dimensions, details, and quantities of materials as required to facilitate construction of the Project. Confirmation of existing conditions is the sole responsibility of the Transferee.

6. The Transferee agrees to the extent permitted by applicable law, to indemnify, hold harmless, release, and defend the Architect and/or its consultants, their officers, shareholders, employees, and sub-consultants from any and all injuries, claims, demands, expenses, suits, liabilities, losses, damages, costs, disputes, other matters in question, third party claims, pass-through claims, subrogated claims, and/or claim expenses, including but not limited to, attorneys' fees, expert witness fees, and court costs arising out of or in any way related to or connected with any negligent act and/or omission in the generation, provision, and/or use of the Digital Data by the Transferee and/or any of its subcontractors, suppliers, and/or consultants and waive any and all rights to such claims and causes of action.

7. The Transferee waives damages against the Architect for any and all injuries, claims, losses, expenses, damages, disputes, other matters in question, and/or claim expenses arising out of or relating to this Agreement and/or generation, provision, and/or use of the Digital Data, including, but not limited to, consequential damages and reasonable attorneys' fees and defense costs.

8. The Architect's and/or the Architect's consultants' liability to the Transferee and/or any of its subcontractors, suppliers, and/or consultants for any and all injuries, claims, losses, expenses, damages, disputes, other matters in question, third party claims, pass-through claims, subrogated claims, and/or claim expenses arising out of or relating to this Agreement and/or the Digital Data, including, but not limited to, reasonable attorneys' fees and defense costs, regardless of the nature of the claim or damage, shall not exceed, either individually or in the aggregate, the total amount of \$5,000.00. Such causes include, but are not limited to, the Architect's and/or the Architect's consultants' negligence, errors, omissions, strict liability, breach of contract, and/or breach of warranty.

9. Upon information and belief, there are no licensing or copyright fees due to others based on the transmission of the Digital Data, but to the extent that such unknown fees do exist, the Transferee agrees to pay the required fees and hold the Architect and/or its consultants harmless from any associated costs or penalties.

10. Upon execution of this Agreement, the Architect grants to the Transferee a non-exclusive, non-transferable (except as set forth herein) license to use the Digital Data solely and exclusively for purposes of constructing, using, and maintaining the Project, provided that the Transferee substantially performs its obligations, including prompt payment of all sums when due, under this Agreement.

11. Any purchase order number provided by the Transferee is for the Transferee's accounting purposes only. The Transferee acknowledges and agrees that purchase order terms and conditions are null, void, and inapplicable to this Agreement.

12. Payment of the service fee set forth herein is due prior to transmission of the Digital Data.

13. This Agreement constitutes the entire agreement between the parties relative to the Digital Data and shall be governed by the laws of the State of Arizona.

AUTHORIZED ACCEPTANCE

by Architect:
Selberg Associates, Inc.

Signature

Print Name and Title

Date

by Original Transferee:

Signature

Print Name and Title

Date

by Third Party Transferee:

Signature

Print Name and Title

Date

**SECTION 01 33 00
SUBMITTAL
PROCEDURES**

PART 1 GENERAL

1.1 CONTRACTORS USE OF ARCHITECTS DIGITAL DATA

- A. General: Electronic copies of digital files of the Construction Documents (Digital Data) may be made available by Architect for Contractor's use in preparing Submittals. The Architect shall not be obligated to make available, nor shall the Contractor be obligated to use such documents in submittal preparation.
1. The use and/or provision of the Digital Data prepared by the Architect and/or its consultants shall not in any way reduce or obviate the Transferee's duty to check and coordinate dimensions, details, member sizes, gauges/thicknesses, quantities of materials, and all other conditions required to facilitate construction of the Project. Confirmation of existing conditions is the sole responsibility of the Transferee.
 2. Transfer of digital files from Architect to Contractor shall be subject to the Terms and Conditions of the "Digital Data Letter of Agreement" at time of such transfer.
 3. A copy of the Digital Data Letter of Agreement" is included as Appendix "A" to this Section.

1.2 CONSTRUCTION SCHEDULE

- A. Submit 3 copies of the Construction Schedule, broken down by Trade or Material, to the Architect for approval prior to the first Pay Request. Schedule shall be by CPM or bar graph type and shall show proposed starting and completion dates for each Trade and activity for the Work. Submit 3 copies of updated schedule at each Pay Request field review to the Architect.
- B. Submit completed construction schedule to Architect no later than 15 calendar days after date of Agreement and update monthly during construction. Submit current schedule with each application for payment.
- C. Submit completed material delivery schedule to the Architect no later than 20 calendar days after the date of the Agreement. Identify material critical to the progress of the Project and those for which long lead time in procurement is anticipated. Indicate projected dates for submittal, order and delivery of such material.

1.3 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

- A. Submit the completed schedule of submittals to the Architect no later than 15 calendar days after date of Agreement and update monthly during construction. Submit current schedule with each application for payment.
- B. Shop Drawings:
1. Following Contractor's review and approval, submit to the Architect electronic

- copy (PDF or similar) of each Drawing for review.
2. The Architect will review the electronic copy and attach an electronic stamp to the electronic copy indicating the findings of the review and will return same to the Contractor via email.
 3. Comments, if any, will be noted directly on the transparency using electronic mark-up.
 4. The Contractor shall then distribute to the various Trades and to Contractor's job personnel as required.
 5. If a submittal is indicated to be corrected and resubmitted, correct and resubmit as outlined above.
 6. Fire Alarm System/Fire Sprinklers System Shop Drawings shall be submitted to the state and local Fire Marshal and obtain approval prior to installation. Fire Marshal inspection, test, and approval of completed installations shall be obtained prior to acceptance of the systems and Substantial Completion of the Project.
- C. Product Data: Following Contractor's review and approval, submit to the Architect four (4) copies of Manufacturer's catalogs and brochures, or PDF format electronic copy of Manufacturer's catalogs and brochures as required by the Specifications. If electronic copy product data are furnished, all files shall be full size PDF only. Electronic copies shall have model numbers, colors, finishes, accessories, etc. identified using electronic mark-up to clearly indicate materials/products being used. Resubmit corrected copies for approval in accordance with original submittal.
- D. Submit Shop Drawings, Product Data and Samples for only those items specifically mentioned in the Specifications and or Addenda. Contractor shall be responsible for obtaining Shop Drawings required for the progress of the Work, even though such Shop Drawings may not require the Architect's review.
- E. Partial Submittals: Submittals which are partial or contain only a portion of the data required to describe the item or installation will be rejected, unless such partial submittal is coordinated with the Architect prior to submittal, and final approval of all such items will be withheld pending receipt of all required information.

1.4 QUALITY CONTROL SUBMITTALS

- A. Submit all items at one time. Partial list will not be acceptable. Submittals shall include the Manufacturer's Specifications, weights, space requirements, physical dimensions, rating of equipment and supplemental information requested by the Architect. Where a submittal sheet describes items in addition to that item being submitted, delete such items. Clearly note equipment and materials which deviate from those shown or specified in size, weight, required clearances, and location of access. Modifications to the Work as shown or specified in submittals shall be indicated and shall be provided by the Contractor as a part of the Work.
- B. Manufacturer's Instructions: Where Specifications require Work to be furnished, installed or performed in accordance with a specified product Manufacturer's instruction, distribute copies of such instructions to concerned parties.

1.5 REVIEW PROCESS

- A. All Shop Drawings will be reviewed and returned within 7 working days to the Contractor for distribution to the applicable trades. Shop Drawings for major components of the Work (i.e. Structural Steel) shall be returned within 14 working days.
- B. Shop Drawings are to be submitted to the Architect in a reasonable sequenced manner as not to overburden the reviewing discipline. If the Architect feels as though the review of the Submittal is not on the critical path of the Project, then the review may exceed indicated review times.
- C. If the corrections identified on the Shop Drawings are not corrected and the review of the same Submittal exceeds two (2) reviews, the Contractor will be billed for additional reviews at the current hourly rate charged by the Architect or his Consultants. This process will require that the Contractor be notified of the charges and an additional Service Work Order be signed prior to the review commencing.

END OF SECTION

Attachments to this Section: Appendix "A" to Section 01 33 00: "Digital Data Letter of Agreement"

SECTION 01 40 00

QUALITY REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Quality Monitoring: Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality. Perform quality control procedures and inspections during installation.
- B. Standards: Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

PART 2 PRODUCTS - Not applicable to this Section

PART 3 EXECUTION - Not applicable to this Section

END OF SECTION

SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 GENERAL

- A. Comply with codes and regulations regarding potable drinking water, sanitation, dust control, fire protection, and other temporary controls.
- B. Remove temporary office facilities, including construction trailers used for field offices, storage sheds, portable toilet facilities, fences and gates, trash dumpsters, etc. and other construction of temporary nature from the site as soon as, in the opinion of the Architect, the progress of the work will permit. Recondition and restore to a condition acceptable to the Architect, areas of the site occupied by temporary facilities.
- C. Obtain written approval from the Owner a minimum of 72 hours prior to disconnection or shutting off service or utility.

1.2 TEMPORARY ELECTRICITY

- A. Provide and pay for power service required from Utility and make arrangements for such service.
- B. Provide temporary electric feeder from electrical service at location as directed by the Utility Owner or as indicated on Drawings.
- C. Provide adequate distribution equipment including main service disconnect(s), overcurrent protection, branch circuits, wiring and distribution boxes with power outlets as necessary for construction operations. Provide flexible, heavy-duty exterior rated power cords as necessary. Provide separate branch circuits and wiring for temporary lighting.
- D. Properly installed permanent convenience receptacles may be utilized during construction after appropriate approvals and permits for temporary use. Do not exceed AMP ratings of breaker serving outlets. Electrical receptacle used during construction shall be left in a new condition without damage at final completion.

1.3 TEMPORARY LIGHTING

- A. Provide lighting for construction operations to achieve a minimum lighting level of 2 watts/sq. ft.
- B. Provide adequate floodlights, clusters, and spot illumination to work areas after dark.
- C. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.
- D. Maintain lighting and provide routine repairs.
- E. Replace all lamps used during the construction period immediately prior to issuance of Certificate of Substantial Completion.

1.4 COMMUNICATIONS

- A. At time of Project mobilization, or before, provide Architect and Owner with Project team directory, including the following:
 - 1. General Contractor's home office.
 - 2. Contractor's superintendent mobile telephone number.
 - 3. Other major subcontractors and Project Team members.

1.5 TEMPORARY WATER SERVICE

- A. Provide, maintain, and pay for suitable quality water service required for construction operations.
 - 1. Provide suitable facilities with drainage to sanitary sewer.
 - 2. Provide backflow prevention, branch piping and water distribution throughout the site with threaded connections for attachment of hoses.
- B. Construction debris, mortars, drywall mud, adhesives, paint, or similar items shall not be washed down drains.

1.6 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required facilities and enclosures.

1.7 TEMPORARY FIRE PROTECTION

- A. Provide adequate number of fire extinguishers to protect the Work.
- B. Comply with fire insurance and governing regulations.
- C. Provide UL labeled ABC all-purpose fire extinguishers adequate in size and number.
- D. Provide temporary office and storage areas with fire extinguishers.

1.8 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
- B. Provide barricades and covered walkways as may be required by governing authorities to protect public right-of-ways and public accesses.
- C. Provide protection for plant life designated to remain. Replace damaged plant life.
- D. Protect non-owned vehicular traffic, stored materials, site and structures from damage.

1.9 FENCING

- A. Construction: Commercial grade chain link fence with adequate support to remain in place during storm winds.
- B. Provide 6'-0" high fence around construction site, including parking lots, contractor staging areas, landscape areas, retention areas, etc. as necessary to protect Work; equip with vehicular and pedestrian gates with locks.
- C. Locate gates for access to work areas, as required. Close and lock after working hours.

1.10 ENVIRONMENT PROTECTION AND CONTROLS

- A. Exercise controls to keep noise and dust during construction to a minimum. Traffic or construction areas shall be sprinkled with water or chemicals as required and in accordance with applicable regulatory requirements.
- B. Environmental Protection: Conduct construction operations and operate equipment and machinery using methods complying with environmental regulations to avoid or minimize environmental pollution or contamination.
 - 1. Air Resources: Prevent creation of dust, air pollution, and odors.
 - 2. Store volatile liquids, including fuels and solvents, in closed containers.
 - 3. Properly maintain equipment to reduce gaseous pollutant emissions.
 - 4. Properly dispose of hazardous or contaminated debris in compliance with environmental regulations.
 - 5. Grade site to drain. Maintain excavations free of water. Provide, operate and maintain pumping equipment as may be necessary to properly dispose of ground water and storm water.
 - 6. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.
 - 7. Comply with local requirements for storm water pollution prevention.

1.11 EXTERIOR ENCLOSURES

- A. Provide temporary weather-tight closure of any exterior openings or penetrations required for Work or as necessary to accommodate acceptable working conditions and protection for products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification Sections, and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.

1.12 SECURITY

- A. Provide security and facilities to protect Work and existing facilities, and Owner's operations from unauthorized entry, vandalism or theft.
- B. Provide and pay for security services if necessary for adequate protection.

1.13 SITE ACCESS AND ACCESS ROADS

- A. Restrict site access to contracted construction personnel and Project Team Members only.
- B. Comply with Contractor Use of Site requirements of Section 01 11 00 – Summary of Work.
- C. Construct and maintain temporary roads accessing public thoroughfares to serve construction area.
- D. Extend and relocate as Work progress requires. Provide detours necessary for unimpeded traffic flow.
- E. Provide and maintain access to fire hydrants, free of obstructions.
- F. Provide means of removing mud from vehicle wheels before entering streets.

1.14 PARKING AND STAGING AREAS

- A. Provide temporary surface parking areas to accommodate construction personnel. Parking areas shall be graded and surfaced with suitable well-draining, non-dusting granular material.
- B. Provide and maintain access to fire hydrants, free of obstructions.
- C. Provide means of removing mud from vehicle wheels before entering streets.
- D. Provide fenced area with secure locking gates for exterior construction staging that may be necessary throughout the construction period.

1.15 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition on a daily basis.
- B. Regularly remove waste materials, debris, and rubbish from site and dispose off-site. Do not allow to accumulate.

1.16 PROJECT IDENTIFICATION

- A. General Contractor is limited to one (1) sign located on their construction trailer. Additional signage must be approved by Owner's Representative. Subcontractors, suppliers, manufacturers, consultants, etc., shall not furnish company information banners unless approved by Owner's Representative.
- B. Project Information Sign: Provide two (2) 16 sq. ft. project signs of exterior grade vinyl to be affixed to project construction fence, printed to Architect's design and colors.
 - 1. List title of Project, Names of Owner, Architect, and General Contractor.
 - 2. Erect on site at location established by Architect and Owner.
- C. Contractor shall obtain all required City/County approvals and sign permits and pay all fees required for installation of temporary construction signs.
- D. No other signs are allowed without Owner's permission except those required by law.

1.17 FIELD OFFICES AND SHEDS

- A. Temporary Field Offices (Construction Trailers): Weather-tight, with lighting, electrical outlets, heating, cooling, and ventilating equipment, and equipped with sturdy furniture, drawing rack(s), drawing display table(s), chairs.
- B. Provide space for project meetings, with table and chairs to accommodate the entire Project Team.
- C. Locate offices (construction trailers) and sheds as approved by Owner.

END OF SECTION

**SECTION 01 70 00
EXECUTION AND CLOSEOUT
REQUIREMENTS**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Cutting and patching.
- B. Substantial Completion: The following are prerequisites to substantial completion. Provide the following.
 - 1. Punch list prepared by Contractor and subcontractors as applicable.
 - 2. Supporting documentation.
- C. Final Acceptance: Provide the following prerequisites to final acceptance.
 - 1. Final payment request with supporting affidavits.
 - 2. Completed punch list.
- D. Project Closeout: Provide the following during project closeout.
 - 1. Submission of record documents.
 - 2. Final cleaning and touch-up.
 - 3. Removal of temporary facilities.

PART 3 PRODUCTS - Not applicable to this Section

PART 4 EXECUTION

4.1 CUTTING AND PATCHING

- A. Cutting and Patching: Provide cutting and patching work to properly complete the work of the project, complying with project requirements for:
 - 1. Structural work.
 - 2. Mechanical/electrical systems.
 - 3. Visual requirements, including detailing and tolerances.
 - 4. Operational and safety limitations.
 - 5. Fire resistance ratings.
 - 6. Inspection, preparation, and performance.
 - 7. Cleaning.
- B. Means and Methods: Do not cut and patch in a manner that would result in a failure of the work to perform as intended.
- C. Inspection: Inspect conditions prior to work to identify scope and type of work required. Protect adjacent work. Notify Owner of work requiring interruption to building services or Owner's operations.
- D. Performance of Operations: Perform work with workmen skilled in the trades involved.
- E. Cleaning: Clean work area and areas affected by cutting and patching operations.

END OF SECTION

**SECTION 01 73 00
EXECUTION REQUIREMENTS**

PART 1 GENERAL

1.1 EXAMINATION AND COORDINATION OF WORK

- A. Verification of Conditions: Examine and verify surfaces, sub surfaces, condition, and serviceability of previous work to receive subsequent work and report detrimental conditions in writing to the Architect.
- B. Commencement of work acknowledges acceptance and serviceability of previous work.
- C. Coordination: Coordinate with other work which affects, connects with, or will be affected by subsequent work.
- D. Any remedial work required to be performed on existing conditions to remain after demolition has commenced shall be by and at the expense of the Contractor and/or sub-contractor having commenced the new work.

1.2 REFERENCE DATA

- A. Reference data made available to the Contractor is for the Contractor's information only, and neither the Owner nor the Architect assume any responsibility for the Contractor's conclusions.
- B. The Contractor shall establish and maintain all building and construction grades, lines, levels, and benchmarks. This Work shall be performed by a licensed Civil Engineer or Surveyor under the employ of the Contractor, who shall certify to the Owner that he has performed this service.
- C. The Contractor shall not remove any fixed property line markers, monuments, or data.

END OF SECTION

**SECTION 02 41 13
SELECTIVE DEMOLITION**

1.1 RELATED WORK SPECIFIED ELSEWHERE

- A. Temporary Facilities and Controls-Section 01 50 00.

1.2 WORK INCLUDED

- A. Protecting of utilities, structures, sidewalks, roads, drives, buildings, lawns, trees, shrubs, and landscape work adjacent to or to remain on the site.
- B. Miscellaneous excavating and backfilling as required.
- C. Remove certain portions of site improvements.
- D. All demolition and dismantling required to complete the alteration work at the existing structures and the construction of the new addition.
1. Demolition of existing interior walls, and associated materials; cutting and patching.
 2. Cutting of openings, pockets, chases, or depressions, etc., as required for alteration work.
 3. All items of work indicated to be removed by other trades shall be coordinated with specific trade involved before proceeding with the demolition.
- E. The owner will remove any materials or equipment which he desires.
- F. General contractor shall schedule and conduct a preliminary walk through the building prior to commencement of construction. This will be the owners last opportunity to identify items to be salvaged, if any.
- G. Utilities and sight components to be field coordinated and verified prior demolition and only proceed with the work with an owner approval.

1.3 PROTECTION

- A. Provide and maintain suitable barricades, shelters, lights, and danger signals during the progress of the work, as well as directional barricades for both vehicle and pedestrian traffic. They shall meet the requirements of State and/or local building codes. Assume full responsibility of barriers to completion of contract and remove same.
- B. Take reasonable and adequate precautions to protect the Owner's property from damage during demolition work, moving of debris, restore any damage to the Owner's property due to the afore mentioned work or replace in a manner satisfactory to the Architect.
- C. Protect walkways to construction area per IEBC 2018 Chapter 15.
- D. General Contractor is responsible for all measures required to protect adjoining properties from damage and utility service interruptions.
- E. General Contractor to protect existing P.U.E. from falling debris during demolition works and construction.

PART 2 - PRODUCTS - NOT USED

PART 3 – EXECUTION

3.1 CONDUCT OF WORK

- A. Remove all work carefully and only to the extent required for the final work. Remove all loose or damaged materials caused by demolition, or noted, or specified to be removed.
- B. Conduct all operations with a minimum of noise.
- C. Erect dustproof partition where demolition work is in progress and as directed. Such partitions shall remain in place until their removal as directed.
- D. Carefully remove any materials and equipment noted or specified to be reused or salvaged and handle with care to minimize damage.
- E. Where openings are to be cut in existing structure, cut such openings with care, where materials are to be removed, remove such items with care to minimize damage to adjacent materials.
- F. Neatly cut depressions, chases, and the like with carborundum saws.
- G. The use of pneumatic or electric hammers for demolition and cutting purposes within the existing building will not be permitted, without prior approval of the Owner.
- H. After the demolition work in any area is completed, clean all floors, walls, and ceilings, etc., before any new construction is started.
- I. Where patching is required, patch all areas using the same materials and finish as adjacent surfaces and patch in such a manner that the repaired area is in visual harmony with the surrounding areas.
- J. Properly repair any adjoining surfaces to original condition that are damaged by the Contractor.
- K. When jail building is removed the general contractor shall provide necessary stabilization for Maple Street where the building retaining wall is removed.
- L. Demolition works shall comply with the requirements in IEBC 2018, Section 117.

3.2 DISPOSAL

- A. Remove all materials or debris resulting from demolition operations from the site promptly. No accumulation of debris will be permitted.
- B. All transportation required to haul and dispose of all items required will be furnished by the contractor.
- C. Hazardous material abatement work to be completed prior to commencement of building demolition work.

END OF SECTION

APPENDIX A
Occupational Safety and Health Administration
[OSHA]
Demolition Standards
<https://www.osha.gov/demolition/standards>

Preparatory Operations

1926.850(a)

Prior to permitting employees to start demolition operations, an engineering survey shall be made, by a competent person, of the structure to determine the condition of the framing, floors, and walls, and possibility of unplanned collapse of any portion of the structure. Any adjacent structure where employees may be exposed shall also be similarly checked. The employer shall have in writing evidence that such a survey has been performed.

1926.850(b)

When employees are required to work within a structure to be demolished which has been damaged by fire, flood, explosion, or other cause, the walls or floor shall be shored or braced.

1926.850(c)

All electric, gas, water, steam, sewer, and other service lines shall be shut off, capped, or otherwise controlled, outside the building line before demolition work is started. In each case, any utility company which is involved shall be notified in advance.

1926.850(d)

If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary, and protected.

1926.850(e)

It shall also be determined if any type of hazardous chemicals, gases, explosives, flammable materials, or similarly dangerous substances have been used in any pipes, tanks, or other equipment on the property. When the presence of any such substances is apparent or suspected, testing and purging shall be performed, and the hazard eliminated before demolition is started.

1926.850(f)

Where a hazard exists from fragmentation of glass, such hazards shall be removed.

1926.850(g)

Where a hazard exists to employees falling through wall openings, the opening shall be protected to a height of approximately 42 inches.

1926.850(h)

When debris is dropped through holes in the floor without the use of chutes, the area onto which the material is dropped shall be completely enclosed with barricades not less than 42 inches high and not less than 6 feet back from the projected edge of the opening above. Signs, warning of the hazard of falling materials, shall be posted at each level. Removal shall not be permitted in this lower area until debris handling ceases above.

1926.850(i)

All floor openings, not used as material drops, shall be covered over with material substantial enough to support the weight of any load which may be imposed. Such material shall be properly secured to prevent its accidental movement.

1926.850(j)

Except for the cutting of holes in floors for chutes, holes through which to drop materials, preparation of storage space, and similar necessary preparatory work, the demolition of exterior walls and floor

construction shall begin at the top of the structure and proceed downward. Each story of exterior wall and floor construction shall be removed and dropped into the storage space before commencing the removal of exterior walls and floors in the story next below.

1926.850(k)

Employee entrances to multi-story structures being demolished shall be completely protected by sidewalk sheds or canopies, or both, providing protection from the face of the building for a minimum of 8 feet. All such canopies shall be at least 2 feet wider than the building entrances or openings (1 foot wider on each side thereof) and shall be capable of sustaining a load of 150 pounds per square foot.

Stairs, passageways, and Ladders

1926.851(a)

Only those stairways, passageways, and ladders, designated as means of access to the structure of a building, shall be used. Other access ways shall be entirely closed at all times.

1926.851(b)

All stairs, passageways, ladders and incidental equipment thereto, which are covered by this section, shall be periodically inspected and maintained in a clean safe condition.

1926.851(c)

In a multistory building, when a stairwell is being used, it shall be properly illuminated by either natural or artificial means, and completely and substantially covered over at a point not less than two floors below the floor on which work is being performed, and access to the floor where the work is in progress shall be through a properly lighted, protected, and separate passageway.

Chutes

1926.852(a)

No material shall be dropped to any point lying outside the exterior walls of the structure unless the area is effectively protected.

1926.852(b)

All materials chutes, or sections thereof, at an angle of more than 45° from the horizontal, shall be entirely enclosed, except for openings equipped with closures at or about floor level for the insertion of materials. The openings shall not exceed 48 inches in height measured along the wall of the chute. At all stories below the top floor, such openings shall be kept closed when not in use.

1926.852(c)

A substantial gate shall be installed in each chute at or near the discharge end. A competent employee shall be assigned to control the operation of the gate, and the backing and loading of trucks.

1926.852(d)

When operations are not in progress, the area surrounding the discharge end of a chute shall be securely closed off.

1926.852(e)

Any chute opening, into which workmen dump debris, shall be protected by a substantial guardrail approximately 42 inches above the floor or other surface on which the men stand to dump the material. Any space between the chute and the edge of openings in the floors through which it passes shall be solidly covered over.

1926.852(f)

Where the material is dumped from mechanical equipment or wheelbarrows, a securely attached toeboard or bumper, not less than 4 inches thick and 6 inches high, shall be provided at each chute opening.

1926.852(g)

Chutes shall be designed and constructed of such strength as to eliminate failure due to impact of materials or debris loaded therein.

Removal of Materials Through Floor Openings

Any openings cut in a floor for the disposal of materials shall be no larger in size than 25 percent of the aggregate of the total floor area, unless the lateral supports of the removed flooring remain in place. Floors weakened or otherwise made unsafe by demolition operations shall be shored to carry safely the intended imposed load from demolition operations.

Removal of Walls, Masonry Sections, and Chimneys

1926.854(a)

Masonry walls, or other sections of masonry, shall not be permitted to fall upon the floors of the building in such masses as to exceed the safe carrying capacities of the floors.

1926.854(b)

No wall section, which is more than one story in height, shall be permitted to stand alone without lateral bracing, unless such wall was originally designed and constructed to stand without such lateral support, and is in a condition safe enough to be self-supporting. All walls shall be left in a stable condition at the end of each shift.

1926.854(c)

Employees shall not be permitted to work on the top of a wall when weather conditions constitute a hazard.

1926.854(d)

Structural or load-supporting members on any floor shall not be cut or removed until all stories above such a floor have been demolished and removed. This provision shall not prohibit the cutting of floor beams for the disposal of materials or for the installation of equipment, provided that the requirements of §§ 1926.853 and 1926.855 are met.

1926.854(e)

Floor openings within 10 feet of any wall being demolished shall be planked solid, except when employees are kept out of the area below.

1926.854(f)

In buildings of "skeleton-steel" construction, the steel framing may be left in place during the demolition of masonry. Where this is done, all steel beams, girders, and similar structural supports shall be cleared of all loose material as the masonry demolition progresses downward.

1926.854(g)

Walkways or ladders shall be provided to enable employees to safely reach or leave any scaffold or wall.

1926.854(h)

Walls, which serve as retaining walls to support earth or adjoining structures, shall not be demolished until such earth has been properly braced or adjoining structures have been properly underpinned.

1926.854(i)

Walls, which are to serve as retaining walls against which debris will be piled, shall not be so used unless capable of safely supporting the imposed load.

Manual Removal of Floors

1926.855(a)

Openings cut in a floor shall extend the full span of the arch between supports.

1926.855(b)

Before demolishing any floor arch, debris and other material shall be removed from such arch and other adjacent floor area. Planks not less than 2 inches by 10 inches in cross section, full size undressed, shall be provided for, and shall be used by employees to stand on while breaking down floor arches between beams. Such planks shall be so located as to provide a safe support for the workmen should the arch between the beams collapse. The open space between planks shall not exceed 16 inches.

1926.855(c)

Safe walkways, not less than 18 inches wide, formed of planks not less than 2 inches thick if wood, or of equivalent strength if metal, shall be provided and used by workmen when necessary to enable them to reach any point without walking upon exposed beams.

1926.855(d)

Stringers of ample strength shall be installed to support the flooring planks, and the ends of such stringers shall be supported by floor beams or girders, and not by floor arches alone.

1926.855(e)

Planks shall be laid together over solid bearings with the ends overlapping at least 1 foot.

1926.855(f)

When floor arches are being removed, employees shall not be allowed in the area directly underneath, and such an area shall be barricaded to prevent access to it.

1926.855(g)

Demolition of floor arches shall not be started until they, and the surrounding floor area for a distance of 20 feet, have been cleared of debris and any other unnecessary materials.

Removal of Walls, Floors, and Material with Equipment

1926.856(a)

Mechanical equipment shall not be used on floors or working surfaces unless such floors or surfaces are of sufficient strength to support the imposed load.

1926.856(b)

Floor openings shall have curbs or stop-logs to prevent equipment from running over the edge.

1926.856(c)

Cranes, derricks, and other mechanical equipment. Employers must meet the requirements specified in subparts N, O, and CC of this part.

[75 FR 48135, Aug. 9, 2010; 77 FR 49730, Aug. 17, 2012; 78 FR 23843, April 23, 2013]

Storage

1926.857(a)

The storage of waste material and debris on any floor shall not exceed the allowable floor loads.

1926.857(b)

In buildings having wooden floor construction, the flooring boards may be removed from not more than one floor above grade to provide storage space for debris, provided falling material is not permitted to endanger the stability of the structure.

1926.857(c)

When wood floor beams serve to brace interior walls or free-standing exterior walls, such beams shall be left in place until other equivalent support can be installed to replace them.

1926.857(d)

Floor arches, to an elevation of not more than 25 feet above grade, may be removed to provide storage area for debris: Provided, that such removal does not endanger the stability of the structure.

1926.857(e)

Storage space into which material is dumped shall be blocked off, except for openings necessary for the removal of material. Such openings shall be kept closed at all times when material is not being removed.

Removal of Steel Construction

1926.858(a)

When floor arches have been removed, planking in accordance with § 1926.855(b) shall be provided for the workers engaged in razing the steel framing.

1926.858(b)

Cranes, derricks, and other hoisting equipment. Employers must meet the requirements specified in subparts N and CC of this part.

1926.858(c)

Steel construction shall be dismantled column length by column length, and tier by tier (columns may be in two-story lengths).

1926.858(d)

Any structural member being dismembered shall not be overstressed.

[75 FR 48135, Aug. 9, 2010; 77 FR 49730, Aug. 17, 2012; 78 FR 23843, April 23, 2013]

Mechanical Demolition

1926.859(a)

No workers shall be permitted in any area, which can be adversely affected by demolition operations, when balling or clamming is being performed. Only those workers necessary for the performance of the operations shall be permitted in this area at any other time.

1926.859(b)

The weight of the demolition ball shall not exceed 50 percent of the crane's rated load, based on the length of the boom and the maximum angle of operation at which the demolition ball will be used, or it shall not exceed 25 percent of the nominal breaking strength of the line by which it is suspended, whichever results in a lesser value.

1926.859(c)

The crane boom and load line shall be as short as possible.

1926.859(d)

The ball shall be attached to the load line with a swivel-type connection to prevent twisting of the load line and shall be attached by positive means in such manner that the weight cannot become accidentally disconnected.

1926.859(e)

When pulling over walls or portions thereof, all steel members affected shall have been previously cut free.

1926.859(f)

All roof cornices or other such ornamental stonework shall be removed prior to pulling walls over.

1926.859(g)

During demolition, continuing inspections by a competent person shall be made as the work progresses to detect hazards resulting from weakened or deteriorated floors, or walls, or loosened material. No employee shall be permitted to work where such hazards exist until they are corrected by shoring, bracing, or other effective means.



Advanced Structural Engineering

9308 E Raintree Drive, Scottsdale, AZ 85260 602.264.1010

AdvancedStructuralEng.com

November 14, 2022

Mike Garmon, PE, Engineering Manager

Mohave County Public Works

PO Box 7000

Kingman, AZ 86402

Subject: **20220048 Memorandum in Review of Pine Street Jail Demolition**
Contract No. 23PS07 (Purchase Order #: 20230415 – 0)

To Whom It May Concern:

This memorandum is intended to provide additional recommendations for the planned demolition of the Pine Street Jail located in Kingsman, AZ following up from a site visit performed by Mr. Eric Domingo, of Advanced Structural Engineering (ASE) and Mohave County Public Works personnel, to gain a general understanding of the project site and its surroundings on October 27, 2022. Upon further review of provided existing building drawings, reference drawings of the adjacent courthouse building, and map images of the site, the following items have been concluded/recommended:

Firstly, in review of the existing jail and new courthouse foundations, there is sufficient distance between the adjacent buildings shallow foundations that there are no long term effects anticipated that can be attributed to the demolition of the existing jail. With regards to the drilled caissons used at the connector bridge between the new and old court building, there is a greater distance between the jail structure and the bridge, in comparison between the jail and new courthouse, such that no long term effects are anticipated. If there are any concerns regarding equipment sensitive to movement the use of vibration monitoring equipment should be considered for the duration of the demolition.

Secondly, in review of the site conditions, an electrical pole is located in close proximity to the service yard site wall at the north east corner of the building site. It is recommended that special care be taken when removing the adjacent wall foundations so as not to impact the support of the pole should it remain in place during demolition.

Lastly, in review of the site conditions, adjacent property (residence) to the east of the structure is located approximately 20-ft from the existing jail and the associated property line approximately 10-ft from the jail between them. It is recommended that consideration be given to sequencing of the demolition/protection of the adjacent property from the removal of the existing jail. Of note, the existing jail plans show that the building retains soil along the east side of the structure, it is recommended that consideration be given towards stabilization along the east side of the site to limit impact to adjacent property (residence).

The opinions and conclusions developed by this investigation are based on sound engineering knowledge and judgment constrained by the scope of work and consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, expressed, or implied, and no warranty or guarantee is included or intended.

20220048 Memorandum in Review of Pine Street Jail Demolition

Mohave County Public Works

November 14, 2022

Page 2 of 2



This memorandum is prepared for the exclusive use of the Mohave County Public Works and is considered confidential and proprietary data. The memorandum presents the observations and opinions of ASE regarding the proposed building demolition and is not intended for the use of others.

We did not tear out, core drill, or do damage of any kind to the existing structure to augment our observations. We only observed those conditions that were readily accessible and available to view. Visual observations of the structure were performed on elements of the structure readily accessible at the date and time of our investigation. Other than the structure this report does not address any other architectural, civil, electrical, mechanical or non-structural issues with the building.

Please contact ASE should you need further clarification.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Domingo".

Eric Domingo
Principal, ASE

cc: Michael S. Puhlmann, PE, SE, Principal, ASE