INVITATION FOR BIDS (IFB)

Stark Residence Hall Building Renovations
IFB No. 2021-STARK008

Prepared By:
Mike Jenkins
Executive Vice President
Kilgore College
1100 Broadway
Kilgore, TX 75662

mjenkins@kilgore.edu
https://www.kilgore.edu/about/offices/procurement-services
INVITATION FOR BIDS IFB#2021-STARK008
Kilgore College

Procurement Services
1100 Broadway, Kilgore, Texas 75662
Phone: 903-983-8105

Project Description: Kilgore College is accepting competitive bids in response to this Invitation for Bids #2021-STARK008.

The following timeline has been established to ensure that our project objective is achieved; however, the following project timeline shall be subject to change when deemed necessary by Owner.

<table>
<thead>
<tr>
<th>MILESTONE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Posted/Published</td>
<td>July 24, 2022</td>
</tr>
<tr>
<td>Open for Bidding</td>
<td>August 10, 2022</td>
</tr>
<tr>
<td>Pre-Bid meeting/tour</td>
<td>August 3, 2022, 10:00 a.m.</td>
</tr>
<tr>
<td>Questions Deadline</td>
<td>August 12, 2022, 2:00 p.m.</td>
</tr>
<tr>
<td>Close to Bidding</td>
<td>August 23, 2022, 2:00 p.m.</td>
</tr>
<tr>
<td>Reading of Bids Received</td>
<td>August 23, 2022, 3:30 p.m.</td>
</tr>
<tr>
<td>Anticipated Contractor Selection Date</td>
<td>September 26, 2022</td>
</tr>
<tr>
<td>Contract Start Date</td>
<td>TBD</td>
</tr>
</tbody>
</table>

COMPETITIVE BIDDING

A. Bids for the Stark Residence Hall Building Renovations project will be received until:
   1. Bidding Close Date: Tuesday, August 23, 2022
   2. Bidding Close Time: 2:00 p.m. CST

B. Mailing Location:
   Kilgore College Procurement Services
   Attn: Betsy Hansard
   1100 Broadway
   Kilgore, Texas 75662

C. Physical Location:
   Kilgore College Receiving Building
   Attn: Betsy Hansard
   108 Choice Street
   Kilgore, Texas 75662

One original and five (5) copies of the bid response, to include all requisite documents included herein, must be submitted in a sealed envelope(s) (box or container) to the address listed above and clearly identify the submittal deadline, the IFB number, and name and return address of the bidder. Documents received after the deadline indicated herein will not be considered. The College reserves the right to accept or reject any informality, or cancel this IFB for any reason at any time. The College will not accept bids that are delivered by telephone, facsimile (fax), or electronic mail (e-mail). Selected vendor will be required to submit Form 1295 through the Texas Ethics Commission (TEC).

Bid review coordination will be managed by Johnson & Pace, Inc.
D. Project Identification and Location: Stark Residence Hall Building, 607 Elder Street, Kilgore, TX 75662

E. Owner: Kilgore College, 1100 Broadway, Kilgore, TX 75662

F. Project Description: Work includes interior demolition and new finish-out of restrooms in existing 8-story building. Bidders must submit bids for the work detailed in Appendix A. Kilgore College desires work to begin no sooner than December 10, 2022, with a required completion date no later than August 23, 2023.

G. Project Alternatives: The following alternatives will be evaluated as potential expansions to the scope work, subject to projected costs and resource availability. The College reserves the right to choose any one alternative, any combination of listed alternatives, or to reject all alternatives.
   1. Alternative 1 – Reglaze Windows
   2. Alternative 2 – Paint Building Interior
   3. Alternative 3 – Hallway Floors
   4. Alternative 4 – Repair Stair Treads
   5. Alternative 5 – Replace Hallway Lighting
   6. Alternative 6 – New Ceiling Fans
   7. Alternative 7 – Lobby Restroom Finishes

Detailed descriptions for the alternates listed above can be found on sheet G0.9 in Appendix A.

CONTRACT
Bids will be based on a lump sum contract and evaluation of selection criteria. Actual contract terms will be negotiated with the selected proposer to fit budget constraints and may not include all items of work listed herein.

CONTRACT DOCUMENTS
A. Scope of work expectations and construction documents are included in this IFB as Attachment A. There is the base renovation project with seven (7) alternative options. Any and/or all of the alternative options may or may not be selected for inclusion in this project.

B. Invitation for Bids advertisement and any issued addenda can be found on the Kilgore College Procurement Services website, https://www.kilgore.edu/about/offices/procurement-services.

SELECTION CRITERIA
A. All properly submitted bids will be reviewed, evaluated, and ranked by the Owner and Johnson & Pace, Inc. representatives based on the following weighted selection criteria:
   1. The bidder’s proposed cost for services - 45%
   2. Qualifications and reputation of the bidder - 35%
   3. The bidder’s past relationship with the College and/or design team - 10%
   4. Specific experience in the scope of the proposed project - 10%

B. Kilgore College will select the bid that offers the best value for the College based on the above-published selection criteria and on its ranking evaluation. By submitting a bid, the bidder acknowledges (1) acceptance of the proposal evaluation process, and (2) recognition that some subjective judgments must be made by Owner during this process. In determining best value for the College, the College is not
restricted to considering price alone, but may consider any other factors stated in the selection criteria that allows for the determination of the lowest responsible bidder. The Owner reserves the right to divide the project into multiple parts, to reject any and all bids and re-solicit, or to reject any and all bids and temporarily or permanently abandon the project. Owner makes no representations, written or oral, that it will enter into any form of agreement with any bidder to this solicitation and no such representation is intended or should be construed by the issuance of this solicitation. Acceptance of a bid for consideration does not waive this reservation of rights, nor does it imply any obligation by Owner.

BOARD OF TRUSTEES AWARD
A final determination of contractor selection and authorization for contract negotiations will be made by the Kilgore College Board of Trustees at a meeting currently scheduled for September 26, 2022. Kilgore College reserves the right to reject any and all bids and waive any and all information.

PROJECT MANAGEMENT
Kilgore College requires that a project manager, coordinator, or supervisor be assigned to the project to work with our Director of Environmental Safety, Construction and Facilities. The manager should be available to meet with College staff as needed. Please provide telephone and email contact information for person assigned. Kilgore College requires one (1) back-up to this person. Please provide telephone and email contact information.

Mandatory Pre-Bid Conference
A. August 3, 2022, at 10:00 a.m.; Stark Hall, 607 Elder Street, Kilgore, TX 75662.

B. There will be registration at the pre-proposal conference and guided tour of the site. The pre-bid conference will allow all proposers an opportunity to ask representatives relevant questions and clarify provisions of this project. Bids will be accepted from only those bidders recorded as attending this meeting. There will be no exceptions to this requirement.

Answers to questions at the pre-bid meeting will be available to all bidders on the College’s website at: https://www.kilgore.edu/about/offices/procurement-services.

Requests for Information
Further questions must be submitted as Requests for Information (RFI), by email to mjenkins@kilgore.edu, until the deadline for questions of Friday, August 12, 2022, by 2:00 p.m. Questions will be answered by the appropriate individual(s) within three (3) business days. RFI must be clearly written, concise and specific, generally addressing a single item or issue. Each email must be identified with a unique abbreviation of the sender’s business name, and with a number unique and sequential to the sender. For instance, Walgreen General Contractors & Builders might send their fourth RFI identified as “WALGREEN #4”, “WAL #4”, or “WG #4” so long as the abbreviation is consistent during the bidding process.

Addenda
It is Bidder’s responsibility to make sure they have obtained all addenda prior to submitting a bid. Addenda, if any, will be posted on Owner’s website at https://www.kilgore.edu/about/offices/procurement-services. An Addenda Checklist form is included as Appendix C and must be completed and submitted with the bid.

Time of Completion
Bidders shall begin the work upon receipt of the Notice to Proceed and shall complete the work within the contract time.
BIDDER QUALIFICATIONS
Bidders must be properly licensed under the laws governing their respective trades and be able to obtain insurance and bonds required for the Work.

CLARIFICATIONS AND INTERPRETATIONS
The College may, in its sole discretion, respond in writing to written inquiries concerning this RCB. Only those responses that are made by formal written Addenda will be binding on the College. Any verbal responses, written interpretations or clarifications other than Addenda to this RCB will be without legal effect. All Addenda issued by the College prior to the submittal deadline will be and are hereby incorporated as a part of this RCB for all purposes.

Bidders are required to acknowledge receipt of each Addendum as specified in this Section. The Bidder must acknowledge all Addenda by completing, signing and returning the Addenda Checklist (ref. APPENDIX C). The Addenda Checklist must accompany the Bidder’s proposal. It is the Bidder’s responsibility to make sure they have obtained all addenda. Addenda, if any, will be posted on the College’s website at https://www.kilgore.edu/about/offices/procurement-services.

CONFIDENTIALITY OF DOCUMENTS
Kilgore College considers all information, documentation, and other materials requested to be submitted in response to this RCB to be of a non-confidential and/or nonproprietary nature and, therefore, shall be subject to public disclosure under Texas Public Records laws.

Any “proprietary, trade secret, or confidential commercial or financial” information must be clearly identified, in a separate sealed envelope, at the time of bid submission. The bidder will be required to fully defend, in all forums, Kilgore College’s refusal to produce such information; otherwise, Kilgore College will make such information public.

NON-DISCRIMINATION CLAUSE
Bidders submitting qualifications/bids declare, promise, and warrant they have and will continue to comply fully with Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C.A. §1985, et seq.), and related state laws in that there shall be no discrimination against any employee who is employed in the performance of this contract, or against any applicant for such employment, because of age, color, national origin, race, religion, creed, disability or sex.

PRICING AND PAYMENT DISBURSEMENTS/DRAW
A detailed list of any and all expected costs or expenses should be explained in the Cost Proposal.

KC will not recognize or accept any charges or fees to perform the Services that are not specifically stated in the pricing bid.

The bid submitted by bidders should include a schedule of disbursements/draws required. Invoices for each disbursement/draw must be submitted for payment.

GUARANTEE. SERVICES CONTRACTS AND WARRANTIES
The successful bidder will be required to guarantee under a Full-System Warranty that all work shall remain free of defects for one (1) full year after project completion. A Full-System Warranty should include labor, workmanship, and full cost of construction. Project specifications may require further system warranties.
Manufacturer’s warranties on all equipment and other architectural warranties shall be collected, bound and submitted to the Owner for their record and possible future use.

CONFLICT OF INTEREST CLAUSE
The parties hereto declare and affirm that no officer, member, or employee of the College, and no member of its governing body exercises any functions or responsibilities in the review or approval of the undertaking described in this Contract, or the performing of services pursuant to this Contract, shall participate in any decision relating to this Contract which affects his or her personal interest, or any corporation, partnership, or association in which he or she is directly or indirectly interested; nor shall any employee of the College, nor any member of its governing body, have any interest, direct or indirect, in this Contract or the proceeds thereof.

BREACH
Should the bidder breach, violate, or abrogate any term, condition, clause or provision of this agreement, the College shall notify the Company in writing that such an action has occurred. If satisfactory provision does not occur within ten (10) days from such written notice the College may, at its option, terminate this agreement and obtain an alternate provider to provide all required materials. This provision shall not preclude the pursuit of other remedies for breach of contract as allowed by law.

INSURANCE INFORMATION
• Bidder shall provide all insurance specified herein and shall maintain such insurance throughout the term of this Agreement.
• The insurance must be obtained from a company or companies acceptable to the Owner and licensed to transact business in the State of Texas, and have a minimum financial security rating by A.M. Best of “A-” or better, or the equivalent from any other rating system.
• The insurance specified herein is the minimum requirement. In the event bidder has or obtains insurance coverage in amounts in excess of those required herein, such additional insurance coverage shall also inure to the benefit of the Owner.
• Minimum insurance coverage to be provided by bidder:

<table>
<thead>
<tr>
<th>TYPE OF COVERAGE</th>
<th>LIMITS OF LIABILITY</th>
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<tbody>
<tr>
<td>1) Worker’s Compensation (part a)</td>
<td>Statutory</td>
</tr>
<tr>
<td>2) Employers liability</td>
<td>$1,000,000 each occurrence</td>
</tr>
<tr>
<td>3) Commercial General Liability*</td>
<td></td>
</tr>
<tr>
<td>(a) Bodily Injury</td>
<td>$1,000,000 each person</td>
</tr>
<tr>
<td></td>
<td>$1,000,000 each occurrence</td>
</tr>
<tr>
<td>(b) Property Damage</td>
<td>$1,000,000 each occurrence</td>
</tr>
<tr>
<td></td>
<td>$1,000,000 Aggregate</td>
</tr>
<tr>
<td>4) Comprehensive Vehicle Liability</td>
<td></td>
</tr>
<tr>
<td>(a) Bodily Injury</td>
<td>$1,000,000 each person</td>
</tr>
<tr>
<td></td>
<td>$1,000,000 each occurrence</td>
</tr>
<tr>
<td>(a) Property Damage</td>
<td>$1,000,000 each occurrence</td>
</tr>
</tbody>
</table>

*The Kilgore Junior College District shall be named as an additional insured party on Bidder’s General Liability policy.

CERTIFICATE OF INSURANCE
The bidder shall furnish the College with a certificate(s) of insurance evidencing the coverages required in this section. Such certificate(s) shall specifically state that the insurance company or companies
underwriting these insurance coverages shall give the College at least thirty (30) days' written notice in the event of cancellation of, or material change in, any of the coverages. If the certificate(s) is shown to expire prior to completion of all the terms of this Contract, the bidder shall furnish a certificate(s) of insurance evidencing renewal of its coverage to the College.

The bidder shall require each and every subcontractor performing work under the contract to maintain the same coverages required of the bidder in this Section, and upon the request of the College, shall furnish the College with a certificate(s) of insurance evidencing the subcontractor’s insurance coverages required in this section.

INDEMNIFICATION
To the fullest extent permitted by law, contractor will and does hereby agree to indemnify, protect, defend with counsel approved by kc, and hold harmless kc, and their respective affiliated enterprises, board of trustees, officers, directors, attorneys, employees, representatives and agents (collectively “indemnites”) from and against all damages, losses, liens, causes of action, suits, judgments, expenses, and other claims of any nature, kind, or description, including reasonable Attorneys’ fees and costs incurred in investigating, defending or settling any of the foregoing (collectively “claims”) by any person or entity, arising out of, caused by, or resulting from contractor’s performance under or breach of this agreement and that are caused in whole or in part by any malpractice, negligent act, negligent omission or willful misconduct of contractor, anyone directly employed by contractor or anyone for whose acts contractor may be liable. The provisions of this section will not be construed to eliminate or reduce any other indemnification or right which any indemnitee has by law or equity.

FORCE MAJEURE
The performance of either party’s obligations will be suspended to the extent and for the length of time that the party is prevented from performing due to acts of nature, fires, governmental actions, changes in the Service requirements which directly contribute to a delay, or other events beyond its reasonable control. In the event of any occurrence that a party considers to be the cause of a delay or failure of performance, the party affected shall promptly notify the other party.

ISRAEL
In accordance with the Texas Government Code, Proposer represents and verifies that it does not, and will not during the term of the contract, if awarded, boycott Israel and that Proposer is not identified by the Texas Comptroller as boycotting Israel. “Boycott” as used herein means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes

EXECUTION OF OFFER
Bidder must complete, sign and return the attached Execution of Offer (Appendix C) as part of its bid. The Execution of Offer must be signed by a representative of bidder duly authorized to bind the bidder to its bid. Any bid received without a completed and signed Execution of Offer may be rejected by KC, in its sole discretion.

IFB Number 2021-STARK008
Kilgore College
Dr. Brenda Kays, President
Appendix A consists of scope of work requirements/expectations and construction documents.
KILGORE COLLEGE
STARK HALL R.R.
RENOVATION
607 ELDER STREET
KILGORE, TX 75662

GENERAL CONDITIONS


TYPICAL MINIMUM REQUIREMENTS

GENERAL PROVISIONS

TYPICAL HANDICAP REACH LIMITS AND CLEARANCE DISTANCES

TYPICAL HANDICAP WATER CLOSET, LAVATORY AND FACILITIES

MULTI-HEAD WASH STATION

ACCESSIBILITY GUIDELINES
REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS ABANDONED: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDIVIDUALS AND PROPERTY, FOR ENVIRONMENTAL PROTECTION, FOR SUBMIT PROPOSED PROTECTION MEASURES IN A REPORT, INCLUDING OF CONTRACTOR.

02 4119 - SELECTIVE DEMOLITION

• DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE AFTER FLAME-CUTTING OPERATIONS. CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONSTRUCTION. USE HAND TOOLS OR SMALL POWER TOOLS TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST MORTAR PIGMENTS TO PRODUCE EXPOSED, SETTING (REBUILDING) AND 6 PARTS SAND. MIX PIGMENTED, COLORED MORTAR BY ADDING WHICH IS LIMITED TO 2 PERCENT. DO NOT USE ADMIXTURES IN MORTAR BRICKS BEING REPAIRED, AND DEVELOPS HIGH BOND STRENGTH TO ALL MASONRY. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE SOLomon COLORS INC. WATER SHALL BE POTABLE.

PROVIDE FACE BRICK AS REQUIRED TO COMPLETE BRICK MASONRY AREAS IN EXISTING WALLS, WHERE DIRECTED BY ARCHITECT.

MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT CONSISTENCY OF EACH APPLICATION.

BRUSHES. DO NOT USE ACIDIC OR ALKALINE CLEANERS. WOOD SCRAPERS, STIFF-NYLON OR -FIBER BRUSHES, AND CLEAN WATER, OF PATCH TO MATCH TEXTURE AND SURROUNDING SURFACE PLANE OR BEING PATCHED. COMBINE ONE OR MORE COLORS OF PATCHING MANUFACTURER. MASK ADJACENT MORTAR JOINT OR RAKE OUT FOR MAINTAIN JOINT WIDTH FOR REPLACEMENT UNITS TO MATCH EXISTING ADJOINING CONSTRUCTION IN AN UNDAMAGED CONDITION. NOTIFY WHERE DEMOLITION OPERATIONS DAMAGE EXISTING MASONRY THAT IS WHERE ACTUAL SIZES ARE INDICATED, THEY ARE MINIMUM DRESSED REQUIRED BY DOC PS 20 FOR MOISTURE CONTENT SPECIFIED.

GRADING AGENCY.

RULES INDICATED.

SHOP-CUT OPENINGS TO MAXIMUM EXTENT POSSIBLE TO RECEIVE SPECIFIED FOR FACES.

FOR BONDING EDGES SHALL BE HOT-MELT ADHESIVE OR ADHESIVE CORPORATION, PIONITE, OR WILSONART LLC, AS SELECTED BY ARCHITECT CUSTOM QUALITY STANDARD AND SHALL BE SOFTWOOD PLYWOOD: COMPOSITE WOOD PRODUCTS SHALL COMPLY WITH REQUIREMENTS OF FABRICATE PRODUCTS SIMILAR TO THOSE REQUIRED FOR THIS PROJECT SUBMIT QUALIFICATION DATA FOR MANUFACTURER AND INSTALLER.

PB Vanishing Grade A SPECIFICATIONS.
THIS DRAWING AND RELATED SPECIFICATIONS, INCLUDING ALL DOCUMENTS ON ELECTRONIC MEDIA, WERE PREPARED BY JOHNSON AND PACE COMPANY, INC. FOR THE USE AND BENEFIT OF THE CLIENT TO WHOM SERVICES ARE RENDERED AND ONLY FOR THE PURPOSE OF DESCRIBING, CONSTRUCTING, OR INSTALLING THE WORK SHOWN HEREON AT THE DESIGNATED LOCATION ON THE SPECIFIED SITE. ANY UNAUTHORIZED USE OF THESE DOCUMENTS, INCLUDING WITHOUT LIMITATION, COPYING, TESTING, UTILIZATION OF THE DOCUMENTS IN ANY MANNER WHATSOEVER, AND MODIFICATION OR ALTERATION OF THE DOCUMENTS FOR ANY PURPOSE WHATSOEVER, SHALL SUBJECT THE USER TO INDEMNIFICATION AND ALSO SEVER ANY LIABILITIES WHICH MAY ARISE FROM THE CONSTRUCTION, USE OR RESULT OF SUCH UNAUTHORIZED USE OR CHANGES.

BUILDING CODES, AND TO COMPLY WITH OWNER'S HARDWARE KEYING WITH OWNER. PROVIDE ALL HARDWARE NECESSARY TO PRODUCTS AND LISTED FOR HEAVY-DUTY USE. COMPLY WITH NFPA 80 IVES; AN ALEGION BRAND TIGHTLY CLOSED. FURNISH TWO KEYS PER LOCK AND KEY ALL LOCKS FURNISH NUMBER OF LATCHES AND LOCKS REQUIRED TO HOLD DOORS INDICATED.

OR A60 METALLIC COATING. FRAME ANCHORS SHALL BE SAME MATERIAL SHALL HAVE FACE OF DOOR FLUSH WITH FRAME, WITH EXPOSED FLANGE FLUSH ACCESS DOORS WITH CONCEALED FLANGES FOR USE IN DRYWALL MILCOR; HART & COOLEY, INC.

SUBMIT PRODUCT SCHEDULE FOR ACCESS DOORS AND FRAMES.

SCHEDULES. COMPLY WITH PARTS OF THE ANSI A108.
PVC PIPE AND PVC SOCKET FITTINGS

1. PVC Pipe

- PVC pipe is used for various applications, including plumbing, electrical, and gas lines. It is known for its flexibility, durability, and resistance to corrosion.

2. PVC Socket Fittings

- PVC socket fittings are used to connect sections of PVC pipe. They are available in various shapes and sizes to accommodate different pipe diameters and applications.

3. General Requirements

- PVC pipe and fittings must meet the requirements specified in ASTM D2661 and other relevant standards. This includes material composition, mechanical properties, and installation guidelines.

4. Installation

- Before installing PVC pipe and fittings, ensure that the area is clean and dry. Use appropriate tools and techniques to cut, shape, and join the pipe and fittings as specified in the manufacturer's guidelines.

5. Jointing

- PVC pipe and fittings can be joined using various methods, such as solvent cement, compression fittings, or mechanical couplings. Each method has its own advantages and specific application scenarios.

6. Protection

- PVC pipe and fittings should be protected from physical damage, such as impact, abrasion, and ultraviolet (UV) light exposure, to maintain their structural integrity and performance.

7. Maintenance

- Regular maintenance is essential to ensure the longevity and functionality of PVC pipe and fittings. This includes cleaning, inspection, and timely repair or replacement of damaged components.

8. Code Compliance

- PVC pipe and fittings must comply with local building codes and standards, including those related to material selection, installation practices, and safety regulations.

9. Certification

- Manufacturers of PVC pipe and fittings typically provide certifications and test reports to verify compliance with relevant standards and quality assurance.

10. Variants

- PVC pipe and fittings are available in different variants, such as pressure pipe, non-pressure pipe, schedule ratings, and pressure ratings, to cater to various applications and performance requirements.

11. Accessories

- Accessory parts, such as valves, strainers, and adapters, are crucial for the functionality and flexibility of PVC pipe and fittings systems. They should be selected based on the specific application and should be installed according to manufacturer guidelines.

12. Codes and Standards

- PVC pipe and fittings should be designed and installed in accordance with applicable codes and standards, such as ANSI, ASTM, and NSF, to ensure safety, durability, and compliance with legal requirements.

13. Quality Control

- Quality assurance measures, including inspections, testing, and certifications, are critical to ensure the reliability and performance of PVC pipe and fittings systems. This includes material testing, manufacturing quality control, and periodic system checks.

14. Education and Training

- Training programs and educational resources are available to help professionals stay updated on the latest practices, codes, and standards related to PVC pipe and fittings. This includes in-house training, seminars, and certification programs.

15. Environmental Considerations

- PVC pipe and fittings are recyclable and environmentally friendly. Proper disposal and recycling practices should be in place to minimize environmental impact and promote sustainability.

16. Cost-Benefit Analysis

- A cost-benefit analysis should be conducted to determine the most cost-effective solution for a given application. This includes assessing initial costs, maintenance requirements, and long-term performance benefits.

17. Troubleshooting

- Common issues, such as leaks, breaks, and corrosion, can be addressed through troubleshooting techniques. Proper installation, regular maintenance, and quality control measures can help prevent these problems from occurring.

18. Future Trends

- Advances in materials science and technology continue to drive innovation in PVC pipe and fittings. Future trends include improved durability, enhanced performance, and sustainable solutions.
GENERAL
THICK, RIGID
828 OR CDA'S
53, TYPE
1785, PVC PIPE AND PVC SOCKET FITTINGS
PIECE, STAMPED

MANUFACTURERS:
1. UNDERDECK CLAMP: CLAMPING RING WITH SET CLIPS.
2. LONGVIEW, TEXAS 75604
TBPE F-4691 / TBAE BR361
3. FORD METER BOX COMPANY,
PIPING SYSTEMS.
4. -

EXISTING PIPING: USE THE FOLLOWING:
MANUFACTURED FITTING OR COUPLING.
PLATED PIPING: SPLIT SHAPE BRASS WITH POLISHED CHROME FINISH.

DEFINITIONS
SPLIT
EXPOSED
STEEL TYPE WITH SET SCREW OR SPRING CLIPS, AND RIVET HINGE.
SPLITTING WOOD MEMBERS.

QUALITY ASSURANCE
A. STEEL SUPPORT WELDING: QUALIFY PROCESSES AND MATERIAL RECOMMENDED BY PIPING SYSTEM MANUFACTURER.
B. MATERIAL COMPLIANCE: REQUIREMENTS INDICATED. COMPLY WITH PROVISIONS IN ASME B1.20.1.
C. FLANGE ASSEMBLY:
TYPE NEOPRENE OR PHENOLIC GASKET, PHENOLIC OR NONGASEOUS, AND RECOMMENDED FOR INTERIOR AND EXTERIOR APPLICATIONS.
D. SEALANTS: USE SEALS AND SEALING ELEMENTS: EPDM OR NBR INTERLOCKING, WATERTIGHT SEAL.
E. גילויしています

SOLDER FILLER METALS: ASTM 4.2.5, 4.2.6, 4.2.8, 4.2.9.
INSTRUCTIONS FOR PROCEDURE.
CSI DIVISION 26 - BASIC ELECTRICAL REQUIREMENTS

VERIFICATION OF DIMENSIONS:

1.11 WORK INCLUDES:

a. COMPLETELY,EQUIPMENT AND PIPING IN A MANNER TO PROVIDE THE GREATEST AMOUNT OF CLEARANCE FOR MECHANICAL SPACES IS PROHIBITED. STRICTLY OBSERVE INTERFERENCE BETWEEN THE VARIOUS PHASES OF WORK.

b. COMPLETE TESTING OF ALL SYSTEMS AS VOLTAGE CONTROLS.

c. PROVIDE RESPONSIBILITY FOR FITTING MATERIALS AND SLEEVE ALL OPENINGS THROUGH FLOORS, WALLS, AND ROOFS, ETC., REGARDLESS OF MATERIAL FOR THE PASSAGE ABOVE THE CEILING, INCLUDING ITEMS SUPPORTED BY THE CEILING.

d. CUTTING AND CODING PROCEDURES.

2.4.5 MATERIALS:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

i. HANDLING AND STORAGE:

1.81 TRUCKS, VANS, AND EQUIPMENT must be kept out of driveway to prevent access to the electrical systems and any other special above the ceiling, including items supported by the ceiling.

3.13 INSTALLATION:

a. ALL OBSTRUCTIONS, TO CONFORM TO THE DETAILS OF THE JOB SITE WITH NEW MATERIALS OR EQUIPMENT, UNLESS PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

1.19 TRADES. BUILDING LIGHTING MAY BE USED AS "THE OWNER AS DESCRIBED IN THE FOLLOWING PARAGRAPH.

1.9 CONVENTIONS:

a. A CLIENT SERVICES AGREEMENT AND OTHER DOCUMENTS REQUIRED TO BE RECORDED IN THE SITE, THE CONTRACTOR, SUBCONTRACTORS, AND THEIR EMPLOYEES, ARE TO BE HONORED TO THE unterschied WITH NEW MATERIALS OR EQUIPMENT, UNLESS PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

1.6 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

c. PROVIDE RESPONSIBILITY FOR FITTING MATERIALS AND SLEEVE ALL OPENINGS THROUGH FLOORS, WALLS, AND ROOFS, ETC., REGARDLESS OF MATERIAL FOR THE PASSAGE ABOVE THE CEILING, INCLUDING ITEMS SUPPORTED BY THE CEILING.

d. CUTTING AND CODING PROCEDURES.

1.4 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

c. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

d. CUTTING AND CODING PROCEDURES.

1.3 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

c. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

d. CUTTING AND CODING PROCEDURES.

1.2 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

c. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

d. CUTTING AND CODING PROCEDURES.

1.1 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

C. PROVIDE RESPONSIBILITY FOR FITTING MATERIALS AND SLEEVE ALL OPENINGS THROUGH FLOORS, WALLS, AND ROOFS, ETC., REGARDLESS OF MATERIAL FOR THE PASSAGE ABOVE THE CEILING, INCLUDING ITEMS SUPPORTED BY THE CEILING.

D. CUTTING AND CODING PROCEDURES.

2.4 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

C. PROVIDE RESPONSIBILITY FOR FITTING MATERIALS AND SLEEVE ALL OPENINGS THROUGH FLOORS, WALLS, AND ROOFS, ETC., REGARDLESS OF MATERIAL FOR THE PASSAGE ABOVE THE CEILING, INCLUDING ITEMS SUPPORTED BY THE CEILING.

D. CUTTING AND CODING PROCEDURES.

3.3 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

C. PROVIDE RESPONSIBILITY FOR FITTING MATERIALS AND SLEEVE ALL OPENINGS THROUGH FLOORS, WALLS, AND ROOFS, ETC., REGARDLESS OF MATERIAL FOR THE PASSAGE ABOVE THE CEILING, INCLUDING ITEMS SUPPORTED BY THE CEILING.

D. CUTTING AND CODING PROCEDURES.

4.2 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

C. PROVIDE RESPONSIBILITY FOR FITTING MATERIALS AND SLEEVE ALL OPENINGS THROUGH FLOORS, WALLS, AND ROOFS, ETC., REGARDLESS OF MATERIAL FOR THE PASSAGE ABOVE THE CEILING, INCLUDING ITEMS SUPPORTED BY THE CEILING.

D. CUTTING AND CODING PROCEDURES.

5.1 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

C. PROVIDE RESPONSIBILITY FOR FITTING MATERIALS AND SLEEVE ALL OPENINGS THROUGH FLOORS, WALLS, AND ROOFS, ETC., REGARDLESS OF MATERIAL FOR THE PASSAGE ABOVE THE CEILING, INCLUDING ITEMS SUPPORTED BY THE CEILING.

D. CUTTING AND CODING PROCEDURES.

6.1 INSTALLATION:

a. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

b. PROVIDE MATERIALS NEW OF STANDARD CURRENT RATING OF APPARATUS IN WHICH INSTALLED.

C. PROVIDE RESPONSIBILITY FOR FITTING MATERIALS AND SLEEVE ALL OPENINGS THROUGH FLOORS, WALLS, AND ROOFS, ETC., REGARDLESS OF MATERIAL FOR THE PASSAGE ABOVE THE CEILING, INCLUDING ITEMS SUPPORTED BY THE CEILING.

D. CUTTING AND CODING PROCEDURES.
NOTE: FLEX DUCT LONGER THAN 5' IS ACCEPTABLE ABOVE RESTROOM CEILINGS.
MECHANICAL NOTES

1. REFER TO M0.0 FOR GENERAL NOTES AND LEGEND.
2. ROUTING OF DUCTWORK SHOWN IS DIAGRAMMATIC AND IS NOT SHOWN IN EXACT LOCATIONS. CONTRACTOR SHALL INSTALL DUCTWORK WITH THE LEAST AMOUNT OF SPACE USED AS POSSIBLE.
3. ALL DUCTWORK SHALL BE MOUNTED AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE DUCTWORK LAYOUT WITH ALL OTHER DISCIPLINES TO AVOID INTERFERENCES.
4. DUCTWORK SHALL BE INSTALLED PARALLEL TO BUILDING LINE UNLESS NOTED OTHERWISE.
5. PROVIDE MANUAL DAMPER AT ALL BRANCH TAKE-OFFS.

MECHANICAL ROOFTOP ISOMETRIC

A DEDICATED OUTSIDE AIR UNIT (DOAU-1). MOUNTED ON ROOF. INSTALL PER MANUFACTURER’S RECOMMENDATIONS. REFER TO 2/M1.3 FOR ADDITIONAL INFORMATION.

B EXHAUST AND MAKE-UP AIR DUCTS THRU EXTERIOR WALL.

C EXHAUST AND MAKE-UP AIR DUCTS OVERHEAD. FIELD VERIFY LOCATIONS OF EXISTING PIPING AND STRUCTURE.

D NEW MAKE-UP AIR DUCT THRU FLOOR. REFER TO ELEVATION (1/M3.0) FOR SIZE AND ROUTING.

E NEW EXHAUST AIR DUCT TO CONNECT TO EXISTING AIR DUCT. REFER TO ELEVATION (1/M3.0) FOR ADDITIONAL INFORMATION.

F EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND HOLE THRU ROOF TO BE CAPPED WEATHERTIGHT.

G EXISTING EXHAUST AIR DUCT TO BE REMOVED. EXHAUST FAN ON ROOF TO BE REMOVED AND HOLE THRU ROOF TO BE CAPPED WEATHERTIGHT.

SCALE 1/4" = 1'-0"
The minimum temperature for indoor units shall be 14°F and 1 1/2" NPS, and all cold water piping shall be 2" thick. Insulation thickness for all hot water return shall be 1 1/2" thick. Insulation thickness for all hot water shall be 3" thick. 141°F shall be 3" thick. A/C air conditioning and heating, refrigeration, and air conditioning systems shall be installed, coordinated, and labeled with information such as equipment, pipe sizes, and sizes of pipes installed. Site preparation and coordination of all floor penetrations with the owner's representative prior to installing pipe insulation as applicable. All natural gas ball valves shall be threaded bronze/brass ball valves with 1/4 turn lever and shall meet all ASME/ANSI standards for system pressure. All natural gas piping to regulators and appliances shall be installed with a minimum 6" sediment trap/drip leg. All above ground natural gas piping shall be covered fitting insulation at all fittings and valves. All insulation shall contain material that is non-combustible, and insulation thickness shall be as specified in the schedule. All electrical wiring shall be protected from physical damage and shall be installed in raceways or conduit. All conduit shall be listed, marked, and shall meet the requirements of the National Electrical Code. All conductors shall be sized and grounded in accordance with the National Electrical Code. All wires shall be fastened to walls, ceilings, and floors with approved hangers. Conductors shall be protected from mechanical damage and shall be installed in raceways or conduit. All electrical conductors shall be insulated and shall meet the requirements of the National Electrical Code. All lighting fixtures shall be installed in accordance with the National Electrical Code. All electrical equipment shall be installed in accordance with the National Electrical Code. All electrical equipment shall be installed in accordance with the National Electrical Code. All electrical equipment shall be installed in accordance with the National Electrical Code. All electrical equipment shall be installed in accordance with the National Electrical Code. All electrical equipment shall be installed in accordance with the National Electrical Code.
PLUMBING NOTES:

1. REFER TO P0.0 FOR GENERAL NOTES AND LEGEND.
2. ROUTING OF PIPING SHOWN IS DIAGRAMMATIC AND IS NOT SHOWN IN EXACT LOCATIONS. CONTRACTOR SHALL INSTALL PIPING WITH THE LEAST AMOUNT OF SPACE USED POSSIBLE.
3. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND NOTED CHANGES.
4. PROVIDE ISOLATION VALVES AT ALL DOMESTIC WATER/JR/SH/MP/HP/UP.
5. PROJECT TRIAL PUMP SYSTEM FOR ALL FLOOR LEVEL.

TAG NOTES:

1. CONTRACTOR TO PROVIDE AND INSTALL ALL FLOOR JOINT PIPE VENTS.
2. CONTRACTOR TO PROVIDE AND INSTALL ALL FLOOR JOINT PIPE VENTS.
3. CONTRACTOR TO PROVIDE AND INSTALL ALL FLOOR JOINT PIPE VENTS.
4. CONTRACTOR TO PROVIDE AND INSTALL ALL FLOOR JOINT PIPE VENTS.

ARROW IDENTIFIES DIRECTION OF FLOW.
1. Refer to P0.0 for general notes and legend.
2. Routing of piping shown is diagrammatic and is not shown in exact locations. Contractor shall install piping with the least amount of space used as possible.
3. Above 8th floor vent stack to connect to existing vent.
4. Contractor shall coordinate piping layout with all other disciplines to avoid interferences.
5. Provide isolation valve at all domestic water branch take-offs.
6. Provide trap primer system for all floor drains.
7. Piping shall be installed parallel to building line unless noted otherwise.
8. Floors 8 thru 7 = 4"
9. Floors 6 thru 2 = 6"

Area of work:

- WCO
- FD
- E

Mark description:

Manufacturer: Zurn
Model: FD-2280-PV3-ST
Remarks: Finished floor drain with square top, PVC hub, and basin with overflow. Single faucet hole on left side.

Valve: Delta, #534LF-HGM-PP. Provide with optional overflow.

Toilet, 1.28 GPM, vitreous china, seat: American Standard #5901.100.


Note: Issued for bidding GWF 07/22/2022

Kilgore College Rising Star Hall R. R. Renovation 607 Elder Street Kilgore, TX 75662

Pace Engineering Inc.

Scale: 1/16" = 1'-0"

Plumbing Fixture Schedule

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Diameter</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Water Fixtures</td>
<td>1</td>
<td>3&quot;</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Drain Fixtures</td>
<td>1</td>
<td>2&quot;</td>
<td></td>
</tr>
</tbody>
</table>

PLUMBING NOTES
1. Refer to P0.0 for general notes and legend.
2. Routing of piping shown is diagrammatic and is not shown in exact locations. Contractor shall install piping with the least amount of space used as possible.
3. All piping shall be installed with proper risers noted on riser diagrams. Piping shall be installed with the least amount of space used as possible.
4. Provide isolation valve at all domestic water branch take-offs.
5. Provide trap primer system for all floor drains.

TAG NOTES
1. Existing sanitary and fixtures to remain.
2. Existing sanitary and fixtures to be removed.
3. Main stack. Refer to riser diagram for additional information.
4. Refer to note C/P1.0 for location.

Scale: 1/4" = 1'-0"
THE ELECTRICAL SYSTEM SHOWN ON THE DRAWINGS IS ONLY DIAGRAMMATIC. ALL ITEMS REQUIRED TO MAKE THE SYSTEM COMPLETE AND IN SAFE WORK ILLUSTRATE THE ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ACCOMMODATIONS FOR THE EXACT EQUIPMENT TO BE INSTALLED.

4. THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ANY OTHER AUTHORITIES HAVING JURISDICTION.

10. ELECTRICAL CONTRACTOR SHALL VERIFY METERING REQUIREMENTS AND SUPPLY ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS OF ALL WALL CABINET METERING DEVICES AND DISTRIBUTION PANELS.

18. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS OF ALL WALL CABINET VERIFICATION OF THE CONTRACTOR.

19. SEE MECHANICAL PLANS FOR THERMOSTAT LOCATIONS.

20. CEILING MOUNTED DATA PORT 18" AFF 48" A.F.F. TO TOP OF BOX UNLESS NOTED OTHERWISE.

21. GFI = GROUND FAULT INTERRUPTER

22. FLOOR MOUNTED DATA PORT

23. 12" ABOVE CEILING; INSTALL PULL STRING 

24. VACANCY SENSOR, COMBINATION PIR/ULTRA SONIC, WALL MOUNTED STANDARD 120V

25. COMBINATION PIR/ULTRA SONIC, MANUAL DEDICATED RECEPTACLES WITHIN 6' OF ANY PLUMBING FIXTURE

26. VACANCY SENSOR, COMBINATION PIR/ULTRA SONIC, MANUAL BYPASS SWITCHES, VACANCY SENSORS AND LIGHTING FIXTURES.

27. IMPORTANCE OF THE CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.

28. ELECTRICAL CONTRACTOR SHALL VERIFY BREAKER REQUIREMENTS FOR ALL PANELS, LOAD CENTERS AND OVERLOAD PROTECTORS.

29. VERIFY EXACT POWER REQUIREMENTS, CONNECTION TYPE AND NEMA CONFIGURATION.

30. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUITS AND JUNCTION BOXES, AND FOR ENSURING THAT ALL CONDUITS AND BOXES ARE TIGHTLY FITTED.

31. ALL PANEL BOARDS AND LOAD CENTERS SHALL RECEIVE ENGRAVED NAME PLATES.

32. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL CONDITIONS.

33. ELECTRICAL CONTRACTOR SHALL MAKE GOOD THESE FAULTS AND THE CONSTRUCTION OF THE WORK.

34. ELECTRICAL CONTRACTOR SHALL COMPLETE AND SUBMIT A SET OF AS BUILT DRAWINGS AND PROGRESS REPORTS TO THE OWNER.

35. ALL PANELS SHALL BE PROVIDED INTEGRAL TO THE EQUIPMENT.

36. BY ACTIVATION OF ANY DUCT SMOKE DETECTOR AND FIRE ALARM SYSTEM.

37. OCCUPANCY SYSTEMS AND SHALL STUB CONDUIT 12" ABOVE CEILING.

38. PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #10 AWG BETWEEN PANEL AND FIRST DEVICE.

39. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #8 AWG BETWEEN PANEL AND FIRST DEVICE.

40. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #6 AWG BETWEEN PANEL AND FIRST DEVICE.

41. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #4 AWG BETWEEN PANEL AND FIRST DEVICE.

42. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #2 AWG BETWEEN PANEL AND FIRST DEVICE.

43. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #1 AWG BETWEEN PANEL AND FIRST DEVICE.

44. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #1/0 AWG BETWEEN PANEL AND FIRST DEVICE.

45. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #2/0 AWG BETWEEN PANEL AND FIRST DEVICE.

46. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #3/0 AWG BETWEEN PANEL AND FIRST DEVICE.

47. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #4/0 AWG BETWEEN PANEL AND FIRST DEVICE.

48. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #6/0 AWG BETWEEN PANEL AND FIRST DEVICE.

49. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #8/0 AWG BETWEEN PANEL AND FIRST DEVICE.

50. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #10/0 AWG BETWEEN PANEL AND FIRST DEVICE.

51. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #12/0 AWG BETWEEN PANEL AND FIRST DEVICE.

52. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #14/0 AWG BETWEEN PANEL AND FIRST DEVICE.

53. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #16/0 AWG BETWEEN PANEL AND FIRST DEVICE.

54. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #18/0 AWG BETWEEN PANEL AND FIRST DEVICE.

55. ALL PERSONAL CONDUCTIVE PANELS AND FIRST DEVICE SHALL BE WIRED WITH #20/0 AWG BETWEEN PANEL AND FIRST DEVICE.
Panel Name: LV2

Location: JAN 105
Volts: 120/208 Wye
Mounting: SURFACE
Phases: 3
Enclosure: NEMA 1
Wires: Main: 100 A MLO

Panel Name: LVDP

Location: JAN 30
Volts: 120/208 Wye
Mounting: SURFACE
Phases: 3
Enclosure: NEMA 1
Wires: Main: 225 A MLO

Circuit Description

- LV2 60 A
- LV3 60 A
- LV4 60 A
- LV5 60 A
- LV6 60 A
- LV7 60 A
- LV8 60 A
- LV2 180 VA / 0 VA
- LV3 180 VA / 0 VA
- LV4 180 VA / 0 VA
- LV5 180 VA / 0 VA
- LV6 180 VA / 0 VA
- LV7 180 VA / 0 VA
- LV8 180 VA / 0 VA

Power Notes

1. REFER TO E0.0 FOR GENERAL NOTES AND LEGEND.
2. COORDINATE ALL WORK WITH MECHANICAL SYSTEMS, ROUTING CONDUIT AS HIGH AS POSSIBLE.
3. REFER TO MECHANICAL CONTRACTOR FOR EXACT LOCATIONS OF EQUIPMENT.
4. CONTRACTOR SHALL VERIFY ALL POWER REQUIREMENT OF EQUIPMENT BEFORE INSTALLATION OF CONDUIT, BREAKER OR WIRING.

Enclosure Schedule

- LV2 - GFI, 44"
POWER NOTES
1. REFER TO E0.0 FOR GENERAL NOTES AND LEGEND.
2. COORDINATE ALL WORK WITH MECHANICAL SYSTEMS. ROUTING CONDUIT AS HIGH AS POSSIBLE.
3. REFER TO MECHANICAL CONTRACTOR FOR EXACT LOCATIONS OF EQUIPMENT.
4. CONTRACTOR SHALL VERIFY ALL POWER REQUIREMENTS OF EQUIPMENT BEFORE INSTALLATION OF CONDUIT, BREAKER OR WIRING.

TAG NOTES
5. EXISTING 120/208V 3PH ELECTRICAL PANEL TO REMAIN.
6. FURNISH & INSTALL NEW 208V 3PH DISCONNECT TO SERVE DOAU-1. MOUNTED ON UNISTRUT RACK. COORDINATE WITH MECHANICAL CONTRACTOR FOR COMPLETE INSTALLATION.
7. FURNISH & INSTALL NEW 175A/3P BREAKER IN EXISTING PANEL MCP-1 TO SERVE POWER TO NEW DEDICATED OUTDOOR AIR UNIT (DOAU-1). COORDINATE WITH MECHANICAL CONTRACTOR FOR COMPLETE INSTALLATION.
LIGHT FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>Mark</th>
<th>Volts</th>
<th>Lamps</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>120</td>
<td>1</td>
<td>LED LIGHTOLIER</td>
<td>S7R-8-40K-10</td>
<td>7&quot; DIA. LED SURFACE MOUNTED LUMINAIRE WITH THE APPEARANCE OF A RECESSED DOWNLIGHT.</td>
</tr>
</tbody>
</table>

LIGHTING NOTES
1. REFER TO E0.0 FOR GENERAL NOTES & LEGEND.
2. COORDINATE FIXTURE LAYOUT WITH CEILING GRID, HVAC DEVICES, AND COMMUNICATION / SECURITY DEVICES.
3. COORDINATE FINAL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.

LIGHTING CIRCUITS

1. LV2-6 LIGHTS IN 2nd FLOOR RESTROOMS
2. LV3-6 LIGHTS IN 3rd FLOOR RESTROOMS
3. LV4-6 LIGHTS IN 4th FLOOR RESTROOMS
4. LV5-6 LIGHTS IN 5th FLOOR RESTROOMS
5. LV6-6 LIGHTS IN 6th FLOOR RESTROOMS
6. LV7-6 LIGHTS IN 7th FLOOR RESTROOMS
7. LV8-6 LIGHTS IN 8th FLOOR RESTROOMS
Appendix B
IFB#2021-STARK008 - Stark Residence Hall Renovation

COMPETITIVE BIDDING FORM

1.1 BID INFORMATION

A. Bidder: ____________________________________________________________

B. Designated Contact for Bidder: _______________________________________

C. Designated Contact’s Phone Number: _________________________________

D. Project Name: Stark Residence Hall Renovation

E. Project Location: Kilgore College, Stark Hall, 607 Elder Street, Kilgore, TX 75662

F. Owner: Kilgore College

G. Architect: Johnson & Pace, Inc.

1.2 BASE BID

A. The undersigned, having carefully examined the Invitation for Bid Requirements, Conditions of the Contract, Drawings, Specifications, as prepared by Johnson & Pace, Inc., and all subsequent Addenda, having visited the site, and being familiar with all conditions and requirements of the work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Invitation for Bid Documents, for the stipulated sum of:

1. ___________________________ Dollars ($ ___________________________).

1.3 ALTERNATES

Bid costs (amount to be added to Base Bid) for each project alternative as described in Appendix B – Schedule A of this IFB document.

1. Alternative 1 – Reglaze Windows: _________________________________

2. Alternative 2 – Paint Building Interior _______________________________

3. Alternative 3 – Hallway Floors _________________________________

4. Alternative 4 – Repair Stair Treads _________________________________

5. Alternative 5 – Replace Hallway Lighting __________________________

6. Alternative 6 – New Ceiling Fans _________________________________

7. Alternative 7 – Lobby Restroom Finishes ____________________________

1.4 TIME OF COMPLETION

A. If awarded this contract, the Undersigned hereby agrees to execute the work as follows:

1. Work can begin December 10, 2022, and be completed by _________________ (Insert date).
B. For those materials requiring protection from the elements, contractor shall make necessary provisions for storage on the jobsite. Owner may be able to provide storage facilities off site to be determined. Materials shall be appropriately insured during storage by contractor.

C. It is imperative that the contractor make efficient use of his time and workers, in the progress of the work to meet the completion dates listed above.

1.5 EXTRA WORK

A. If extra work is ordered by the Owner, the Undersigned agrees to perform each work for net cost of all materials and labor furnished plus % for overhead and profit.

1.6 SUBCONTRACTORS AND SUPPLIES

A. The following companies shall execute subcontractors for the portions of the work indicated:
   1. Demolition Work:
   2. Tile Work:
   3. Interior Finishes Work:
   4. Mechanical Work:
   5. Plumbing Work:
   6. Electrical Work:

1.7 CONTRACTOR’S LICENSE

A. The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in Gregg County, Texas, and that all fees, permits, etc., pursuant to submitting the bid have been paid in full.

1.8 PROPOSER INFORMATION

A. The undersigned confirms inclusion of information documenting how proposer meets the selection criteria.
   1. Cost for Services – listed in sections 1.2 and 1.3 above.
   2. Qualification and Reputation of the Bidder – please attach a description of bidder’s leadership team and the education/experience of those individuals who would be involved in this project. Include at least three (3) references for construction/renovation projects that have been completed within the past two (2) years.
   3. Past Relationship with the College and/or design team – please attach a description of previous projects completed for the College and/or experience in working with Johnson & Pace, Inc. on renovation projects.
   4. Specific experience in the scope of the proposed project – please attach a description of experience in building/renovating projects that are substantially similar to this project and include at least three additional (3) references for substantially similar projects.

1.9 BID ACCEPTANCE

A. Firm Name:

B. Address:
C. Phone/Fax: _______________________________________________

D. Authorized Signature: _______________________________________

E. Title: ____________________________________________________

F. Date: _____________________________________________________
Appendix B - Schedule A
ALLOWANCES, ALTERNATES

1.1 DEFINITIONS

A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

B. Alternate: An amount proposed by proposers and stated on the IFB Form for certain work defined in the requirements that may be added to or deducted from the base proposal amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
   1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
   2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

C. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor’s Applications for Payment.

1.2 UNIT PRICES:

A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.

B. Take measurements and compute quantities. Architect/Engineer will verify measurement/quantities.

C. Owner reserves the right to reject Contractor’s measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner’s expense, by an independent surveyor acceptable to Contractor.

D. List of Unit Prices: If required a schedule of unit prices is included on the IFB Form.

E. Final payment for Work governed by unit prices will be made on basis of actual measurements and quantities accepted by Architect multiplied by unit sum/price for Work incorporated in or made necessary by the Work.

1.3 ALTERNATES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
   1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Execute accepted alternates under the same conditions as other work of the Contract.
C. Schedule:
   1. Alternate #1 –

1.4 CHANGE PROCEDURES

A. The Conditions of the Contract states that the Owner may order changes in the Work within the general scope of the Contract, consisting of additions, deletions or other revisions. If such revisions cause an increase or decrease in the Construction Managers or a Contractor’s cost or time required for performance of the contract, an equitable adjustment may be made and confirmed in writing in the form of a Contract Change.

B. Architect will issue through the Construction manager or General Contractor supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time.

C. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
   1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
   2. Within 14 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.

D. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Construction Manager or General Contractor may initiate a claim by submitting a request for a change to Architect.
   1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.

E. On Owner’s approval of a work Changes Proposal Request, Architect will issue a Change Order for signatures of Owner and Construction Manager/ General Contractor on AIA Document G701.

   1. Work Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or Contract Time.
   2. Documentation: Maintain detailed records on a time and material basis of work required by the Work Change Directive.

1.5 SCHEDULE OF VALUES

A. The Construction Manager / General Contractor will submit a printed schedule on AIA Form G702 and G703. All contractors to coordinate and support the completion of this information by the CM /GC Coordination:

B. Submit Schedule of Values within 14 days after the Contractor Agreement or upon Notification to Proceed.
   1. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of
Applications for Payment and progress reports. Coordinate with Project Manual table of contents. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.

2. Round amounts to nearest whole dollar; total shall equal the Contract Sum.

3. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
   a. Differentiate between items stored on-site and items stored off-site. If required, include evidence of insurance.

4. Sub-schedules for Phased Work: Where the work is separated into phases requiring separately phased payments, breakdown schedules showing values associated with each phase.

5. Allowances: Provide a separate line item in the schedule of values for each allowance. Show line-item value of unit-cost allowances, as a product of the unit cost, multiplied by measured quantity. Use information indicated in the Contract Documents to determine quantities.

6. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

7. Forms filled out by hand will not be accepted.

8. Electronic media printout including equivalent information will be considered in lieu of standard form specified: If reviewed and approved by Architect.
Bid of: (Bidding Company’s Name)

To: Kilgore College
Ref.: Stark Hall Building Renovation
IFB No.: 2021-STARK008

Ladies and Gentlemen:
The undersigned bidder hereby acknowledges receipt of the following Addenda to the captioned IFB (initial for each if applicable).

It is the bidder’s responsibility to make sure they have obtained all addenda. Addenda, if any, will be posted on KC’s website at https://www.kilgore.edu/about/offices/procurement-services

No. 1 _____ No. 2 _____ No. 3 _____ No. 4 _____ No. 5 _____

If no Addenda’s available initial here. ____________

Respectfully submitted,

Bidder: ________________________________________________________________

By: ________________________________________________________________
   (Authorized Signature for Bidder)

Printed Name: _________________________________________________________

Title: ________________________________________________________________

Date: __________________________________________________________________
APPENDIX D
EXECUTION OF OFFER

By signature hereon, bidder offers and agrees to furnish to Kilgore College the products and/or services more particularly described in its bid, at the prices quoted in the bid, and to comply with all terms, conditions and requirements set forth in the IFB documents and contained herein.

By signature hereon, bidder affirms that she/he has not given, nor intends to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor or service to a public servant in connection with the submitted proposal.

By signature hereon, bidder certifies that the individual signing this document and the documents made part of the IFB is authorized to sign such documents on behalf of the company and to bind the company under any agreements or other contractual arrangements which may result from the submission of bidder’s bid.

By signature hereon, bidder affirms that no compensation has been received for participation in the preparation of the specifications for this IFB. (ref. Section 2155.004 Texas Government Code).

Bidder represents and warrants that all articles and services quoted in response to this IFB meet or exceed the safety standards established and promulgated under the Federal Occupational Safety and Health Law (Public Law 91-596) and its regulations in effect or proposed as of the date of this solicitation.

By signature hereon, bidder signifies her/his compliance with all federal laws and regulations pertaining to Equal Employment Opportunities and Affirmative Action.

By signature hereon, bidder agrees to defend, indemnify, and hold harmless KC, all of its board members, agents and employees from and against all claims, actions, suits, demands, proceedings, costs and expenses (including reasonable attorneys’ fees and court costs), damages, and liabilities, arising out of, connected with, or resulting from any negligent or willful acts or omissions of bidder or any agent, employee, subcontractor, or supplier of bidder in the execution or performance of any agreements or other contractual arrangements which may result from the submission of bidder’s bid.

By signature hereon, bidder agrees to abide by and fully comply with KC’s smoking policy. Bidder understands that this applies to the project at issue and bidder agrees that all persons working under or for bidder will abide by this policy in all respects.

Bidder:_____________________________ EIN No:______________________________

Address: ________________________________________________________________

Telephone: ________________________ Email:______________________________

Office Name & Title (printed) ________________________________________________

Officer Signature:_________________________ Date:__________________________

INVITATION FOR BIDS FORM