

ADDENDUM NO. 2



RE: LIGHTING & FURNACE REPLACEMENT
Knox County Housing Authority
Galesburg, Illinois

DATE: April 19, 2024

TO: All Bidders

You are hereby directed to make the following changes in the Project Manual and/or Drawings of the subject job and each item shall become fully a part of the Construction Documents as if originally written and/or shown:

1. **CLARIFICATIONS:**

- a. Rudd and Rheem are the same manufacturer and may be used interchangeably

2. **SPECIFICATIONS; NOTICE TO BIDDERS;** Bid Date is revised and should read as follows:

Sealed bids will be received by the Knox County Housing Authority at their administrative offices located at 216 West Simmons Street, Galesburg, Illinois 61401, until 10:00 a.m. (local time), on Friday April 26, 2024, at which time they will be publicly opened and read aloud for the following:

LIGHTING & FURNACE REPLACEMENT
Knox County Housing Authority
Galesburg, Illinois

3. **SPECIFICATIONS; NOTICE TO BIDDERS; SCOPE OF WORK** should read as follows:

Proposals are desired for a single, lump sum General Construction contract which shall include all work related to the following:

Replacement of lighting at common areas, office spaces, and maintenance facilities at Bluebell Tower, Moon Towers, Cedar Creek Place, Whispering Hollow, and Woodland Bend apartments with some exterior lighting upgrades as well. Replacement of furnaces and air conditioning at apartments and replacement of other HVAC systems at two offices and three Community Buildings.

4. **SPECIFICATIONS; ALTERNATES,** Add the following:

1.04 ALTERNATE NO. 4 DEDUCT \$ _____

- A. Delete new exterior lighting scope and associated wiring and meters at Cedar Creek Place, Woodland Bend, and Whispering Hollow. Replacement of existing fixtures shall remain in scope.

5. **SPECIFICATIONS; PROPOSAL FOR CONSTRUCTION;** add the following:

1.04 ALTERNATE NO. 4 DEDUCT \$ _____

- 2. Delete new exterior lighting scope and associated wiring and meters at Cedar Creek Place, Woodland Bend, and Whispering Hollow. Replacement of existing fixtures shall remain in scope.

4. Alternate No. 4 Deduct _____ Calendar Days

6. **SPECIFICATIONS**; 23 81 26 .13 SMALL CAPACITY SPLIT-SYSTEM AIR CONDITIONERS; **2.04 OUTDOOR UNITS**; **B** should read as follows:
- B. Compressor: Scroll ,3600 rpm, AHRI 520 resiliently mounted integral with condenser,with positive lubrication, high-pressure control, motor overload protection, service valves and drier. Provide time delay control to prevent short cycling.
7. **DRAWINGS**; Sheet No. 2 (Revised and Reissued dated 4/19/24); CONDENSING UNIT SCHEDULE; NOTES: has been updated; see attached.
8. **DRAWINGS**; Sheet No. 2 (Revised and Reissued dated 4/19/24); ELECTRICAL NOTES has been updated; see attached.
9. **DRAWINGS**; Sheet No. 10 (Revised and Reissued dated 4/19/24); has been updated; see attached.

END OF ADDENDUM NO. 2

All bidders must acknowledge receipt of this Addendum in their bid.

NOTICE TO BIDDERS

Sealed bids will be received by the Knox County Housing Authority at their administrative offices located at 216 West Simmons Street, Galesburg, Illinois 61401, until 10:00 a.m. (local time), on Friday, April 26, 2024, at which time they will be publicly opened and read aloud for the following:

LIGHTING & FURNACE REPLACEMENT Knox County Housing Authority Galesburg, Illinois

Prime contract work proposals are desired for total construction of the work as described in the Specifications and Drawings. The Knox County Housing Authority is now conducting competitive solicitations on an internet-based system. Bids are desired for total construction of the work as described in the Specification and Drawing documents that will be available to contractors starting on Wednesday, March 27, 2024, by accessing the Housing Agency Marketplace website at: <https://ha.internationaleprocurement.com/actions/login.html>.

Electronic copies of the Plans and Specifications may be obtained by accessing the aforementioned website. This solicitation is listed under the following "Main Service Category" within the Housing Agency Marketplace: "Construction and Rehabilitation Services".

Proposals shall be submitted to the office of the Owner via mail, hand delivery, or e-mail (clefler@knoxhousing.org) using the proposal form on the bidder's letterhead on or before the date and time established above.

SCOPE OF WORK

Proposals are desired for a single, lump sum General Construction contract which shall include all work related to the following:

Replacement of lighting at common areas, office spaces, and maintenance facilities at Bluebell Tower, Moon Towers, Cedar Creek Place, Whispering Hollow, and Woodland Bend apartments with some exterior lighting upgrades as well. Replacement of furnaces and air conditioning at 154 apartments and replacement of other HVAC systems at two offices and three Community Buildings.

PRE-BID SITE VISIT/ACCESSIBILITY

To facilitate site examinations, the Architect will be available to accompany bidders starting at 9:00 a.m. (local time), Wednesday, April 10, 2024. The tour will begin at the community room at Moon Towers at 255 West Simmons Street, Galesburg, Illinois.

All principal subcontractors are strongly encouraged to visit the site(s) to review the scope of work. Interested parties are to call the office of the Architect (574-288-2052) to confirm attendance.

CONSTRUCTION DOCUMENTS

Bids are desired for total construction of the work as described in the Specifications and Drawings on file and available to contractors during regular working hours beginning at 12:00 p.m. on March 27, 2024, by accessing the Housing Agency Marketplace website at: <https://ha.internationaleprocurement.com/actions/login.html>.

Instructions to Bidders and Plans and Specifications are on file in the Offices of the Architect, the Owner and as follows:

Knox County Housing Authority
216 West Simmons Street
Galesburg, IL 61401

Alliance Architecture
929 Lincolnway East, Suite 200
South Bend, IN 46601

Dodge Data & Analytics
300 American Metro Blvd., Suite 185
Hamilton, NJ 08619

Master Builders of Iowa
4100 Westown Pkwy. West
Des Moines, IA 50266

Northern Illinois Bldg. Contractors Assoc.
1111 South Alpine Road, Suite 202
Rockford, IL 61108

Hispanic American Const. Industry Association
650 West Lake Street, Suite 415
Chicago, IL 60661

Bids must include a bid guarantee made payable to the Housing Authority. Bid guarantees will be returned within 10 days of official bid opening, if requested, except for three selected qualified bidders. The unsuccessful bidders will have their bid guarantee returned after award of contract, if requested. The successful bidder must be fully insured and provide an assurance as required by Instructions to Bidders. Additional bid requirements are outlined in Section 00 21 00 SUPPLEMENTAL INSTRUCTIONS TO BIDDERS.

All contractors and subcontractors must be in compliance with: Equal Opportunity Employment, Executive Order 11246 and Davis-Bacon wage rates as determined by the U.S. Department of Labor and adopted by the Housing Authority and as set forth in the Project Manual. Submission of U.S. Department of Labor payroll forms is required on a weekly basis. Contractors and subcontractors will commit themselves to making a good faith effort to meet the 10% goal of employing minorities and 5% goal of employing women. This publicly funded project is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968.

The Housing Authority reserves the right to reject any or all bids, to award the contract to the lowest, responsible and most responsive bidder and to waive any formalities or irregularities in the bids received. No bid shall be withdrawn for a period of sixty (60) days subsequent to the opening of the bids without the consent of the Housing Authority. The Housing Authority reserves the right to award a contract in the best interest of the Housing Authority.

Furthermore, the Owner **encourages** Minority Business Enterprises **and** Women-Owned Businesses to submit a proposal for this project. To obtain contact information for Illinois MBE businesses, contractors are encouraged to contact:

Ms. Janel L. Ford, Acting Director
Business Enterprise Programs
Central Management Services
100 West Randolph
Chicago, Illinois 60601
Phone: (800) 356-9206
E-Mail: BEP.CMS@illinois.gov

PROPOSAL FOR CONSTRUCTION

LIGHTING & FURNACE REPLACEMENT
Knox County Housing Authority
Galesburg, Illinois

Gentlemen:

1. The undersigned, having familiarized themselves with the local conditions affecting the cost of the work, and with the Specifications (including Notice to Bidders, Instructions to Bidders, this proposal, Bid Guarantee, Non-Collusive Affidavit, the General Conditions, the Supplemental General Conditions, the Summary Scope of Work, the Specifications, and the Drawings) and Addenda, if any thereto, as prepared by Alliance Architecture, and on file in the office of the Architect, 929 Lincolnway East, Suite 200, South Bend, IN 46601 and the Knox County Housing Authority located at 216 West Simmons Street, Galesburg, Illinois 61401, hereby proposes to furnish all labor, materials, tools, equipment, and services required to complete all modernization work items as listed on the Drawings and outlined in the Specifications, all in accordance therewith, for the sum of:

Base Bid	\$	
General Requirements Allowance	\$	65,000.00
TOTAL BID	\$	

2. Alternates shall be as follows (see Section 01 23 00 ALTERNATES):

<u>Alternate No. 1</u>	Deduct \$	
Delete furnace and air conditioner replacement at Cedar Creek Place apartments.		
<u>Alternate No. 2</u>	Deduct \$	
Delete furnace and air conditioner replacement at Woodland Bend apartments.		
<u>Alternate No. 3</u>	Deduct \$	
Delete furnace and air conditioner replacement at Whispering Hollow apartments.		
<u>Alternate No. 4</u>	Deduct \$	
Delete new exterior lighting scope and associated wiring and meters at Cedar Creek Place, Woodland Bend, and Whispering Hollow. Replacement of existing fixtures shall remain in scope.		

3. In submitting this bid proposal, it is understood that the right is reserved by the Knox County Housing Authority to reject any and all bids. If written notice of the acceptance of this bid is mailed, telegraphed or delivered to the undersigned 60 days after the opening thereof, or at any time thereafter before this bid is withdrawn, the undersigned agrees to execute and deliver a contract in the prescribed form and furnish the required assurance within ten (10) days after the contract is presented to him for signature

4. We propose to begin work immediately upon receipt of a formal Notice to Proceed and to achieve Substantial Completion of same within the following calendar days. In the case that Alternates are accepted, the number of calendar days shall be increased or decreased from the Base Bid completion time as follows:

Base Bid		_____	Calendar Days
Alternate No. 1	Deduct	_____	Calendar Days
Alternate No. 2	Deduct	_____	Calendar Days
Alternate No. 3	Deduct	_____	Calendar Days

5. Unit Prices shall be as follows (see Section 01 24 00 UNIT PRICES):

Unit Price A \$ _____ each

State the amount to furnish and install one condenser enclosure. Enclosure shall be a five-sided frame, detached from any side walls, with cutout for power cable and line set.

Unit Price B \$ _____/unit

State the amount to replace one furnace (F-2) and air conditioner (CU-2) at a single apartment. Include the cost of the condenser enclosure, also described in Unit Price A.

6. Certification of Nonsegregated Facilities: By signing this bid, the bidder certifies that he complies with Item 10 of the "Representations, Certifications, and Other Statements of Bidders."

7. Bid Guarantee in the sum of \$ _____, in the form of _____, is submitted herewith in accordance with the specifications (5% of base bid and all allowances and add alternates).

8. Attached hereto is an affidavit in proof that the undersigned has not entered into any collusion with any person in respect to this proposal or any other proposal or the submitting of proposals for the contract for which his proposal is submitted.

9. Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

10. Acknowledge receipt of Addendum (Addenda) and Clarification(s).

The following addenda and/or clarifications have been received, and are hereby acknowledged, and their execution is included in the above proposal amount:

Addendum No. _____, Dated _____ Addendum No. _____, Dated _____

Addendum No. _____, Dated _____ Addendum No. _____, Dated _____

Clarification No. _____, Dated _____ Clarification No. _____, Dated _____

Official Company Name and Address:

Bidder's Company Name: _____

Bidder's Address: _____

Bidder's Cell Phone No: _____

Bidder's Office Phone No: _____

Signature: _____

Printed Name: _____

Title: _____

Date: _____

**SECTION 01 23 00
ALTERNATES**

THE CONTRACTOR SHALL STATE THE AMOUNT THAT SHALL BE ADDED TO OR DEDUCTED FROM THE BASE BID FOR EACH OF THE FOLLOWING ALTERNATES. ALL ALTERNATES SHALL INCLUDE LABOR, MATERIAL, EQUIPMENT, AND SUPERVISION FOR SPECIFIC WORK.

1.01 ALTERNATE NO. 1 DEDUCT \$ _____

- A. Delete furnace and air conditioner replacement at Cedar Creek Place Apartments, including condenser enclosure and line set replacement. Do not delete replacement of HVAC equipment at the Community Building.

1.02 ALTERNATE NO. 2 DEDUCT \$ _____

- A. Delete furnace and air conditioner replacement at Woodland Bend Apartments, including condenser enclosure and line set replacement. Do not delete replacement of HVAC equipment at the Community Building.

1.03 ALTERNATE NO. 3 DEDUCT \$ _____

- A. Delete furnace and air conditioner replacement at Whispering Hollow Apartments, including condenser enclosure and line set replacement. Do not delete replacement of HVAC equipment at the Community Building.

1.04 ALTERNATE NO. 4 DEDUCT \$ _____

- A. Delete new exterior lighting scope and associated wiring and meters at Cedar Creek Place, Woodland Bend, and Whispering Hollow. Replacement of existing fixtures shall remain in scope.

VOLUNTARY ALTERNATES

2.01 CONTRACTOR IS ENCOURAGED TO SUBMIT VOLUNTARY ALTERNATES FOR PROCEDURES, MATERIALS OR EQUIPMENT THAT PRODUCE SAVINGS FOR THE OWNER. EACH VOLUNTARY ALTERNATE IS TO BE ACCOMPANIED BY NECESSARY BROCHURES, SHOP DRAWINGS, ENGINEERING, ETC., FOR THE ARCHITECT'S AND OWNER'S USE IN EVALUATING SUCH ALTERNATES. THE OWNER MAY AWARD CONTRACTS TAKING INTO ACCOUNT ANY AND ALL VOLUNTARY ALTERNATES RECEIVED. ANY VOLUNTARY ALTERNATE SUBMITTED MAY BE USED TO THE BENEFIT OF THE OWNER EVEN THOUGH THE BIDDER SUBMITTING THE ALTERNATE MAY NOT BE AWARDED THE CONTRACT.

END OF SECTION

**SECTION 23 81 26.13
SMALL-CAPACITY SPLIT-SYSTEM AIR CONDITIONERS**

PART 1 GENERAL

1.01 RELATED REQUIREMENTS

- A. Section 26 05 83 - Wiring Connections: Electrical characteristics and wiring connections and installation and wiring of thermostats and other controls components.

1.02 REFERENCE STANDARDS

- A. AHRI 210/240 - Performance Rating of Unitary Air-Conditioning and Air-Source Heat Pump Equipment; 2023.
- B. AHRI 520 - Performance Rating of Positive Displacement Condensing Units; 2004.
- C. ASHRAE Std 15 - Safety Standard for Refrigeration Systems; 2022, with Addendum (2024).
- D. ASHRAE Std 23 - Methods for Performance Testing Positive Displacement Refrigerant Compressors and Compressor Units; 2022.
- E. NEMA MG 1 - Motors and Generators; 2021.
- F. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems; 2024.
- G. NFPA 90B - Standard for the Installation of Warm Air Heating and Air-Conditioning Systems; 2024.
- H. UL 207 - Standard for Refrigerant-Containing Components and Accessories, Nonelectrical; Current Edition, Including All Revisions.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide rated capacities, weights, accessories, electrical nameplate data, and wiring diagrams.
- C. Shop Drawings: Indicate assembly, required clearances, and location and size of field connections.
- D. Design Data: Indicate refrigerant pipe sizing.
- E. Manufacturer's Instructions: Indicate rigging, assembly, and installation instructions.
- F. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listing.
- G. Warranty: Submit manufacturer's warranty and ensure forms have been filled out in Owner's name and registered with manufacturer.
- H. Project Record Documents: Record actual locations of components and connections.

1.04 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Carrier Corporation; _____: www.carrier.com/#sle.
- B. Rheem Manufacturing Company Inc; _____: www.rheem.com/#sle.
- C. Trane Technologies, PLC; _____: www.trane.com/#sle.
- D. York International Corporation / Johnson Controls; _____: www.york.com/#sle.
- E. Basis of Design: Rheem Manufacturing Company Inc: www.rheem.com/#sle.

2.02 SYSTEM DESIGN

- A. Split-System Heating and Cooling Units: Self-contained, packaged, matched factory-engineered and assembled, pre-wired indoor and outdoor units; UL listed.
 - 1. Heating: Natural gas fired.

2. Cooling: Outdoor electric condensing unit with evaporator coil in central ducted indoor unit.
 3. Provide refrigerant lines internal to units and between indoor and outdoor units, factory cleaned, dried, pressurized and sealed, with insulated suction line.
- B. Performance Requirements: See Drawings for additional requirements.
- C. Electrical Characteristics:
1. _____ kW.
 2. _____ volts, single phase, 60 Hz.
 3. _____ amperes maximum fuse size.
 4. Disconnect Switch: Factory mount disconnect switch on equipment under provisions of Section 26 05 83.

2.03 INDOOR AIR HANDLING UNITS FOR DUCTED SYSTEMS

- A. Indoor Units: Self-contained, packaged, factory assembled, pre-wired unit consisting of cabinet, supply fan, heating and cooling element(s), controls, and accessories; wired for single power connection with control transformer.
1. Air Flow Configuration: Upflow.
 2. Cabinet: Steel with baked enamel finish, easily removed and secured access doors with safety interlock switches, glass fiber insulation with reflective liner.
- B. Supply Fan: Centrifugal type rubber mounted with direct or belt drive with adjustable variable pitch motor pulley.
1. Motor: NEMA MG 1; 1750 rpm single speed, permanently lubricated, hinge mounted.
 2. Motor Electrical Characteristics:
- C. Air Filters: 1 inch (25 mm) thick urethane, washable type arranged for easy replacement.
- D. Evaporator Coils: Copper tube aluminum fin assembly, galvanized or polymer drain pan sloped in all directions to drain, drain connection, refrigerant piping connections, restricted distributor or thermostatic expansion valve.
1. Construction and Ratings: In accordance with AHRI 210/240 and UL 207.
 2. Manufacturers: System manufacturer.

2.04 OUTDOOR UNITS

- A. Outdoor Units: Self-contained, packaged, pre-wired unit consisting of cabinet, with compressor and condenser.
1. Refrigerant: R-410A.
 2. Construction and Ratings: In accordance with AHRI 210/240 with testing in accordance with ASHRAE Std 23 and UL 207.
- B. Compressor: Scroll, 3600 rpm, AHRI 520 resiliently mounted integral with condenser, with positive lubrication, high-pressure control, motor overload protection, service valves and drier. Provide time delay control to prevent short cycling.
- C. Air Cooled Condenser: Aluminum fin and copper tube coil, AHRI 520 with direct drive axial propeller fan resiliently mounted, galvanized fan guard.
- D. Accessories: Filter drier, high-pressure switch (manual reset), low pressure switch (automatic reset), service valves and gauge ports, thermometer well (in liquid line).
1. Provide thermostatic expansion valves.
 2. Rigid air conditioner condensing unit cage; Basis of Design
- E. Operating Controls:
1. Control by room thermostat to maintain room temperature setting.

2.05 GAS FURNACE COMPONENTS

- A. Burner: Atmospheric type with adjustable combustion air supply,
1. Gas valve, two stage provides 100 percent safety gas shut-off; 24 volt combining pressure regulation, safety pilot, manual set (On-Off), pilot filtration, automatic electric valve.
 2. Combustion air damper with synchronous spring return damper motor.

3. Non-corrosive combustion air blower with permanently lubricated motor.
- B. Burner Safety Controls:
1. Thermocouple Sensor: Prevents opening of gas valve until pilot flame is proven and stops gas flow on ignition failure.
 2. Flame Rollout Switch: Installed on burner box and prevents operation.
 3. Vent Safety Shutoff Sensor: Temperature sensor installed on draft hood and prevents operation, manual reset.
 4. Limit Control: Fixed stop at maximum permissible setting, de-energizes burner on excessive bonnet temperature, automatic resets.
- C. Operating Controls:
1. Cycle burner by room thermostat to maintain room temperature setting.
 2. Supply fan energized from bonnet temperature independent of burner controls, with adjustable timed off delay and fixed timed on delay, with manual switch for continuous fan operation.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrates are ready for installation of units and openings are as indicated on shop drawings.
- B. Verify that proper power supply is available and in correct location.
- C. Verify that proper fuel supply is available for connection.

3.02 INSTALLATION

- A. Install in accordance with NFPA 90A and NFPA 90B.
- B. Install refrigeration systems in accordance with ASHRAE Std 15.

END OF SECTION

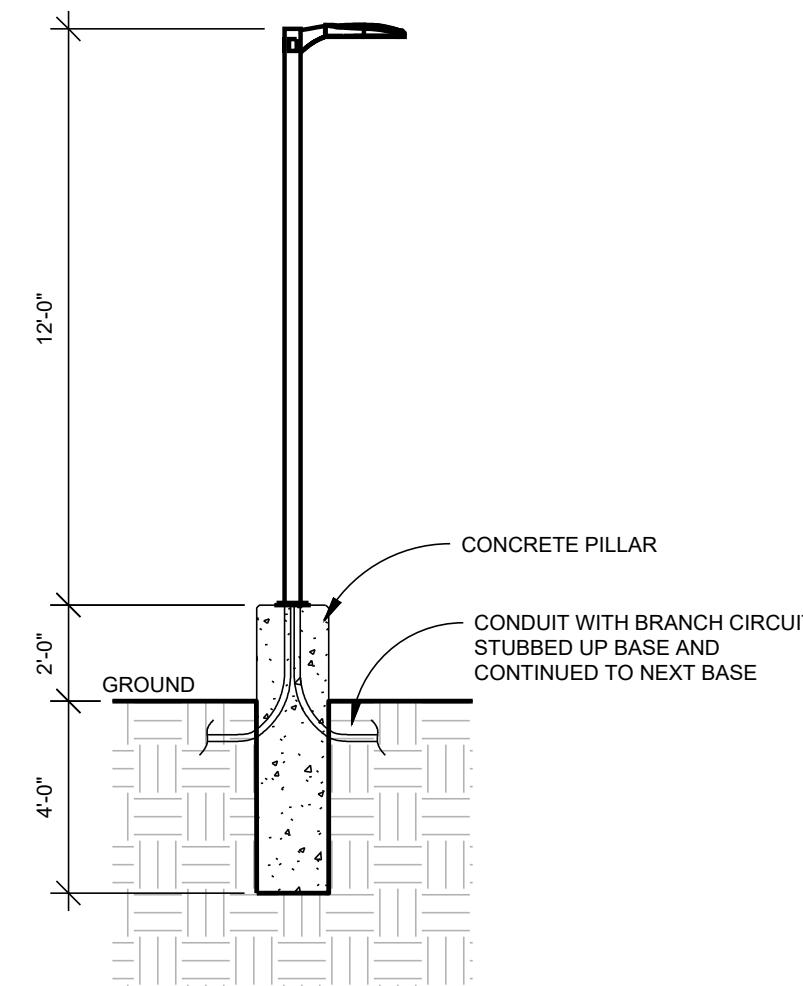
MECHANICAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE, AND LOCAL CODES AT THE TIME OF BIDDING, INCLUDING BUT NOT LIMITED TO THOSE NOTED ON THE COVER SHEET.
- DRAWINGS ARE DIAGRAMMATIC. FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE LOCATIONS WITH OTHER TRADES. PROVIDE NECESSARY MODIFICATIONS AND TRANSITIONS TO MEET FIELD CONDITIONS AND AVOID CONFLICT WITH OTHER TRADES. IF RESOLUTION CANNOT BE REACHED WITHOUT COMPROMISING THE DESIGN, THESE CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR RESOLUTION. IN CONFLICT AREAS, COMPLETE ONLY WORK NOT AFFECTED BY THE CONFLICT PRIOR TO RESOLUTION.
- THE FLOOR PLANS DO NOT SHOW ALL TRANSITIONS, FITTINGS, APPURTENANCES, ACCESS PANELS, ELEVATION CHANGES, AND VARIOUS OTHER ITEMS CALLED FOR BY DETAILS, SPECIFICATIONS, AND MANUFACTURER REQUIREMENTS. REFER TO THESE DOCUMENTS AND, WHERE REQUIRED, THESE ITEMS SHALL BE PROVIDED WITHOUT ADDITIONAL COST FOR A COMPLETE AND OPERATING SYSTEM.
- INSTALL ALL EQUIPMENT, DEVICES, AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- ALL PIPING, VENTING ETC. SHALL BE IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PRINTED RECOMMENDATIONS/INSTRUCTIONS. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICT BETWEEN CODE REQUIREMENTS AND MANUFACTURER'S REQUIREMENT.
- SUBSTITUTIONS FOR BRAND OR MODEL OF DEVICES ARE NOT PERMITTED IN THE BASE BID UNLESS OTHERWISE STATED OR APPROVED IN WRITING BY THE ARCHITECT/ENGINEER. SUBSTITUTIONS MAY BE SUBMITTED WITH WRITTEN EXPLANATION AS VOLUNTARY ALTERNATES. SEE SPECIFICATIONS.
- COORDINATE WITH ELECTRICAL CONTRACTOR AND ENSURE ANY AND ALL ELECTRICAL REQUIREMENTS FOR MECHANICAL SYSTEMS ARE INCLUDED IN THE PROJECT SCOPE.
- THERMOSTATS LOCATED IN COMMONLY AVAILABLE SPACES, SUCH AS LOUNGES OR CORRIDORS, SHALL INCLUDE LOCKABLE THERMOSTAT COVERS TO PREVENT TAMPERING.
- HANGER SYSTEMS FOR DUCTWORK, PIPING, AND EQUIPMENT SHALL BE SECURED TO BUILDING STRUCTURAL SYSTEM. MOTORIZED EQUIPMENT SUPPORTED SHALL INCLUDE VIBRATION ISOLATION MOUNTS.
- DUCT CONNECTIONS TO BE SEALED WITH MASTIC AND TAPE WHICH CONFORM WITH UL181A OR UL181B. PROVIDE VAPOR BARRIER WRAP OVER INSULATION WRAP FOR ALL CONCEALED DUCTS.
- FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED OR DEMISING WALLS. WHERE PENETRATION IS EXPOSED, PROVIDE ESCUTCHEONS OR SIMILAR TO CONCEAL ALL FIRE STOPPING.
- REPLACE ALL LINESETS AND WEATHER SHIELDING. NEW LINESETS MAYBE RUN EXPOSED IN FURNACE CLOSETS/ROOMS AND ADJACENT STORAGE CLOSETS/ROOMS.

ELECTRICAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE, AND LOCAL CODES AT THE TIME OF BIDDING, INCLUDING BUT NOT LIMITED TO THOSE NOTED ON THE COVER SHEET.
- DRAWINGS ARE DIAGRAMMATIC. FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE LOCATIONS WITH OTHER TRADES.
- SUBSTITUTIONS FOR BRAND OR MODEL OF DEVICES ARE NOT PERMITTED IN THE BASE BID UNLESS OTHERWISE STATED OR APPROVED IN WRITING BY THE ARCHITECT/ENGINEER. SUBSTITUTIONS MAY BE SUBMITTED WITH WRITTEN EXPLANATION AS VOLUNTARY ALTERNATES. SEE SPECIFICATIONS.
- THE FLOOR PLANS DO NOT SHOW ALL SPLICES, JUNCTION BOXES, ACCESS PANELS, ELEVATION CHANGES, AND VARIOUS OTHER ITEMS CALLED FOR BY DETAILS, SPECIFICATIONS, AND MANUFACTURER REQUIREMENTS. REFER TO THESE DOCUMENTS AND, WHERE REQUIRED, THESE ITEMS SHALL BE PROVIDED WITHOUT ADDITIONAL COST FOR A COMPLETE AND OPERATING SYSTEM.
- INSTALL ALL EQUIPMENT, DEVICES, AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- ALL INTERIOR WIRING TO BE INSULATED THIN OR EQUIVALENT. EXTERIOR WIRING, ALL WIRING IN WET LOCATIONS, TO BE THWN OR EQUIVALENT.
- CONDUIT SERVING UP TO 3 CURRENT CARRYING CONDUCTORS OF SIZE 10AWG OR SMALLER PERMITTED TO BE MC CABLE.
- CONDUIT RUN WITHIN FIRE RATED WALLS TO BE EMT. ALL OTHER CONDUIT TO BE EITHER PVC OR EMT, UNLESS OTHERWISE NOTED.
- ALL DEVICES AND COVER BLANKS SHALL BE LIGHT ALMOND COLOR UNLESS OTHERWISE NOTED, OR OTHERWISE DIRECTED BY ARCHITECT.
- WHERE OCCUPANCY SENSORS ARE CALLED OUT, INTEGRATE OCCUPANCY SENSOR INTO LIGHT SWITCHING.
- WIRE EXIT AND EGRESS LIGHTS TO THE NEAREST CONTINUOUSLY ENERGIZED LIGHTING CIRCUIT.
- PROVIDE OCCUPANCY SENSORS IN ALL SPACES AND WIRE ALL LIGHTS NOT NOTED AS NIGHT LIGHTS OR EMERGENCY LIGHTS TO BE CONTROLLED.
- CONTRACTOR TO COORDINATE WITH OWNER AND ELECTRIC COMPANY FOR NEW METER UTILITIES. PROVIDE METER BASE AND NEMA 3R FUSED DISCONNECT.
- CONTRACTOR IS RESPONSIBLE FOR TOUCHING UP PAINT ON EXISTING WALL AND CEILING SURFACES WHERE SURFACE MOUNTED LIGHT FIXTURE, CONTROL, ETC. ARE REPLACED AND ARE SMALLER IN SIZE THAN THE EXISTING AS WELL AS ANYWHERE PAINT IS DISTURBED AS PART OF INSTALLATION. PAINT TYPE AND COLOR SHALL MATCH THE ADJACENT SURFACE COLOR.

LIGHT FIXTURE SCHEDULE						
MARK	MAKE	MODEL	DESCRIPTION	VOLTAGE	SOURCE	NOTES
A / A1 / K1	COLUMBIA LIGHTING	LCAT24-LSCS	2'X4' RECESSED	120V 1φ	LED	
B / B1 / K	COLUMBIA LIGHTING	LCAT22-LSCS	2'X2' RECESSED	120V 1φ	LED	
A2 / I	COLUMBIA LIGHTING	CBT24-A-LSCS-EDD	2'X4' RECESSED	120V 1φ	LED	
B2 / C	COLUMBIA LIGHTING	CBT22-A-LSCS-EDD	2'X2' RECESSED	120V 1φ	LED	
C1 / O	LITECONTROL	30-CC-AI-XX-XX-WHS-35K9-1030-D01-UNV	LED CONCEALED COVE	120V 1φ	LED	
D / M	PRESCOLITE	LBRP-M-LSSLCS9 WITH LBRP-6RD-T-D	8" CAN DOWNLIGHT	120V 1φ	LED	
D1 / P	PRESCOLITE	LBRP-M-LSSLCS9 WITH LBRP-6RD-T-D	6" CAN DOWNLIGHT	120V 1φ	LED	
E	COLUMBIA LIGHTING	CRW4-LSCS	4' SURF MOUNTED	120V 1φ	LED	
E1 / J1-1	COLUMBIA LIGHTING	CRW4-LSCS	4' SURFACE MOUNTED	120V 1φ	LED	
E2 / T	COLUMBIA LIGHTING	CSL4-A-LSCS	4' WALL MOUNTED	120V 1φ	LED	
F	LEOTECK	PTC-S-F-N	POLE LIGHT	120V 1φ	LED	
G / G1 / J / J1 / L	COLUMBIA LIGHTING	CSL4-A-LSCS	4' SURFACE MOUNTED	120V 1φ	LED	
H	COLUMBIA LIGHTING	CSL8-A-LSCS	8' SURFACE MOUNTED	120V 1φ	LED	
J2	COLUMBIA LIGHTING	RLW2-35MW-FAW-EU	2' SURFACE MOUNTED	120V 1φ	LED	
K2 / N	BEACON	LSQ1-25-457-UNV-BLT	13.5" CEILING RECESSED	120V 1φ	LED	
R1	DLC	WLD64LED	WALL PACK LIGHT	120V 1φ	LED	
U / U1	COLUMBIA LIGHTING	CWM2-35MWSM-SBFA-EU	WALL SCNCE	120V 1φ	LED	
Q / R / S	PRESCOLITE	LBSD-6RD-CS9-WH	SINGLE LIGHT SURFACE MOUNTED	120V 1φ	LED	
V3 / Y	COMPASS	CCRG	EXIT AND EMERGENCY LIGHT	120V 1φ	LED	
V / V2	COMPASS	CERG	EXIT SIGN CEILING MOUNTED	120V 1φ	LED	
V1	COMPASS	CERG	EXIT SIGN WALL MOUNTED	120V 1φ	LED	
W	COLUMBIA LIGHTING	CBT24-A-LSCS-EDD WITH PSMK24	2'X4' SURFACE MOUNTED			
W1	COLUMBIA LIGHTING	CBT22-A-LSCS-EDD WITH PSMK22	2'X2' SURFACE MOUNTED	120V 1φ	LED	
X	COMPASS	CORS	SINGLE LED REMOTE	120V 1φ	LED	
Z	DLC	WLD64LED	WALL PACK LIGHT	120V 1φ	LED	

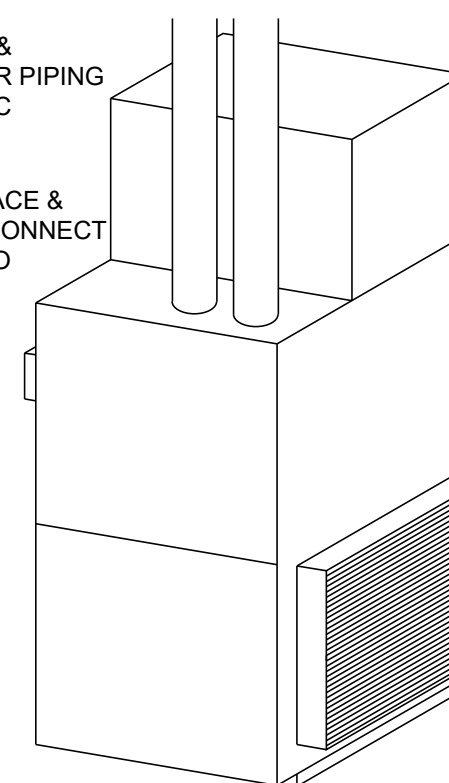


LIGHT POLE DETAIL

SCALE: N.T.S.

CONNECT FLUE & COMBUSTION AIR PIPING TO EXISTING PVC

REPLACE FURNACE & EVAPORATOR. CONNECT CONDENSATE TO EXISTING



2 BEDROOM UNIT:
FURNACE SET NEXT TO WALL FOR FILTER GRILLE STYLE RETURN

3 & 4 BEDROOM UNIT:
FURNACE OPEN TO STORAGE/MECHANICAL ROOM WITH LOUVERED DOOR.

COMMUNITY BUILDINGS AND COCC: RETURN AIR IS DUCTED TO UNIT

FURNACE DETAIL

SCALE: N.T.S.

CONDENSING UNIT SCHEDULE						
MARK	MAKE	MODEL	COOLING CAPACITY	VOLTAGE / POWER	MCA / MOCP	NOTES
CU-1	RHEEM	RA1418AJ1NB	1.5 TON	208V/2.14 KW	13/20	EVAP: RCF2417STAMUA
CU-2	RHEEM	RA1424BJ1NB	2 TON	208V/2.43 KW	15/25	EVAP: RCF2417STAMUA
CU-3	RHEEM	RA1430AJ1NB	2.5 TON	208V/2.83 KW	17/25	EVAP: RCF3617STAMUA
CU-4	RHEEM	RA1430AJ1NB	2.5 TON	208V/2.83 KW	17/25	EVAP: RCF3621STAMUA
CU-5	RHEEM	RA1460AJ1NB	5 TON	208V/5.66 KW	24/35	EVAP: RCF6024STAMUA

NOTE: PROVIDE AIR CONDITIONER CONDENSING UNIT CAGE AT ALL CONDENSING UNITS. SEE SPECIFICATIONS. ANCHOR CAGES TO CONCRETE PADS USING STUD WITH LOCK PASS THROUGH SUCH THAT CAGES CAN BE LIFTED BY UNLOCKING OWNER PROVIDED LOCKS. ALSO PROVIDE WEATHER SHIELDING ON LINESETS. SEE NOTE 12.

FURNACE SCHEDULE												
MARK	MAKE	MODEL	AIRFLOW	HEATING			COOLING			VOLTAGE / POWER	NOTES	
				SOURCE	CAPACITY	EFFICIENCY	SOURCE	CAPACITY	SEER			
F-1	RHEEM	R951T0403A17	800 CFM	NAT. GAS	40,000 BTU	95%	SPLIT DX	1.5 TON	14	CU-1	208V/732 KW	2 BEDROOM UNIT
F-2	RHEEM	R951T0603A17	800 CFM	NAT. GAS	60,000 BTU	95%	SPLIT DX	2 TON	14	CU-2	208V/732 KW	3 BEDROOM UNIT
F-3	RHEEM	R951T0703A17	1000 CFM	NAT. GAS	70,000 BTU	95%	SPLIT DX	2.5 TON	14	CU-3	208V/732 KW	4 BEDROOM UNIT
F-4	RHEEM	R951T085A21	1000 CFM	NAT. GAS	85,000 BTU	95%	SPLIT DX	2.5 TON	14	CU-4	208V/1.488KW	5 BEDROOM UNIT
F-5	RHEEM	R951T1155A24	1800 CFM	NAT. GAS	112,000 BTU	95%	SPLIT DX	5 TON	14	CU-5	208V/1.488KW	MAINTENANCE & COMMUNITY BUILDINGS

MINI-SPLIT SCHEDULE											
MARK	MAKE	MODEL	TYPE	AIRFLOW (CFM)	CAPACITY		SEER2/EER2/HSPF2	VOLTAGE	POWER	MCA / MOCP	NOTES
					COOLING	HEATING					
MSO-1	SAMSUNG	AR09CSDABWKCVCY	OUTDOOR UNIT	--	--	--	24.5/15.5/10.5	208V 1φ	40 W	12A/20A	
MSI-1	SAMSUNG	AR09CSDACWKCVCY	INDOOR UNIT	286/339/392/427	34 TON	11,000 BTU	--	208V 1φ	27 W	--	



KEY NOTES

- 1 PROVIDE NEW LIGHT FIXTURE AT NEW LOCATION.
- 2 REPLACE FURNACE AND A/C. INSTALL NEW CONDENSING UNIT CAGE.
- 3 INSTALL CONDENSING UNIT CAGE ON EXISTING UNIT.
- IG NEW IN GRADE WEATHER PROOF JUNCTION BOX.
- M ELECTRIC METER (SEE NOTES FOR NEW VS EXISTING)

WOODLAND BEND SITE PLAN
 SCALE: 1" = 40'-0" 480 IOWA AVENUE

