

**Chemung County-City of Elmira Purchasing Department**  
150 Lake Street  
P.O. Box 588  
Elmira, NY 14901  
PH: 607-737-3577 FX: 607-873-1352

**ADDENDUM # 3**

**RFB-322-R  
RE-BID ELEVATOR MODERNIZATION  
CENTERTOWN PARKING GARAGE**

**Bids Due** on June 23, 2026 at 1:45 PM (**unchanged**)

1. See attached document for clarifications to RFI's received and project drawings on pages 2-7

Please contact the Purchasing Office if you have questions.

Thank you

**By: Tricia Wise, Purchasing Director**

**Date Issued:** June 16, 2026

**END of ADDENDUM #3**

## SECTION 009113.3 – ADDENDA NO. 3

## 1.1 PROJECT INFORMATION

- A. Project Name: Elevator Modernization Centertown Parking Garage. Re-Bid.
- B. Owner: City of Elmira.
- C. Architect: Foor & Associates, Architects.
- D. Architect Project Number: 4062.
- E. Date of Addendum: June 16, 2026

## 1.2 NOTICE TO BIDDERS

- A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.
- C. The **date for receipt of bids is unchanged** by this Addendum, at same time and location.
  - 1. Bid Date: Tuesday, June 23, 2026, 1:45 PM.

## 1.3 RFI'S &amp; CLARIFICATIONS

- A. Attached are RFI's 2, 3, 4, & 5 with responses and Revised Drawing M1.0.

END OF DOCUMENT 009113.3

# Frey & Campbell, Inc.

87 Lake Street  
Hammondsport, NY 14840

(607) 569-2297

Fax (607) 569-3668

## REQUEST FOR INFORMATION

F&C RFI #: 2

ELEVATOR MODERNIZATION FOR CENTERTOWN  
PROJECT: PARKING GARAGE

PROJECT #: FA #4062

ATTN: Larry Foor

DRAWING #: M1.0

COMPANY: Foor & Associates

SPEC #: Notes

### QUESTION:

Per Duct Note 3 we are to provide coordination drawings - please confirm these are required for this project

Per Duct Note 9 - insulation is per Code - please provide specification for duct insulation

Per Pipe Note 1 - coordination drawings are to be provided - please confirm these are required for this project

Per Pipe Note 5 - insulation is per Code - please provide specification for insulation on refrigeration pipe

ATTACHMENTS: \_\_\_\_\_

SIGNED: Tina Learn

DATE: June 10, 2026

### RESPONSE:

**COORDINATION DRAWINGS ARE REQUIRED FOR THIS PROJECT. SEE ADDENDUM 1 FOR  
DUCT AND REFRIGERATION PIPING INSULATION SPEC.**

ATTACHMENTS: ADDENDUM 3 - M1.0

SIGNED: DYLAN WARD

DATE: 6/16/26

COMPANY: LABELLA

\_\_\_\_\_  
THE RESPONSE CONTAINS ALL NECESSARY INFORMATION

\_\_\_\_\_  
ADDITIONAL INFORMATION IS REQUESTED → SEE NEW RFI #: \_\_\_\_\_

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

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## REQUEST FOR INFORMATION

F&C RFI #: 3

ELEVATOR MODERNIZATION FOR CENTERTOWN  
PROJECT: PARKING GARAGE

PROJECT #: FA #4062

ATTN: Larry Foor

DRAWING #: P1.0

COMPANY: Foor & Associates

SPEC #: Notes

### QUESTION:

Per note 22 - a heat trace system is to be provided. Is this system to be controlled by a BMS system or independently

ATTACHMENTS: \_\_\_\_\_

SIGNED: Tina Learn

DATE: June 10, 2026

### RESPONSE:

THIS SYSTEM IS TO BE CONTROLLED INDEPENDENTLY AS THERE IS NO EXISTING BMS SYSTEM.

ATTACHMENTS: \_\_\_\_\_

SIGNED: DYLAN WARD

DATE: 6/16/2026

COMPANY: LABELLA

THE RESPONSE CONTAINS ALL NECESSARY INFORMATION

ADDITIONAL INFORMATION IS REQUESTED  SEE NEW RFI #: \_\_\_\_\_

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

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Fax (607) 569-3668

## REQUEST FOR INFORMATION

F&C RFI #: 4

ELEVATOR MODERNIZATION FOR CENTERTOWN  
PROJECT: PARKING GARAGE

PROJECT #: FA #4062

ATTN: Larry Foor

DRAWING #: \_\_\_\_\_

COMPANY: Foor & Associates

SPEC #: \_\_\_\_\_

### QUESTION:

Are there existing "controls" on this project? If so please advise what system is being used.

Is testing and Balancing of new work required? Please provide specifications if needed.

ATTACHMENTS: \_\_\_\_\_

SIGNED: Tina Learn

DATE: June 10, 2026

### RESPONSE:

THERE ARE NO EXISTING CONTROLS ON THIS PROJECT. TESTING AND BALANCING OF NEW WORK IS REQUIRED, SEE ADDENDUM 1 FOR SPECIFICATION.

ATTACHMENTS: ADDENDUM 3 - M1.0

SIGNED: DYLAN WARD

DATE: 6/16/26

COMPANY: LABELLA

THE RESPONSE CONTAINS ALL NECESSARY INFORMATION

ADDITIONAL INFORMATION IS REQUESTED → SEE NEW RFI #: \_\_\_\_\_

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

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Fax (607) 569-3668

## REQUEST FOR INFORMATION

F&C RFI #: 5

ELEVATOR MODERNIZATION FOR CENTERTOWN  
PROJECT: PARKING GARAGE

PROJECT #: FA #4062

ATTN: Larry Foor

DRAWING #: P1.0

COMPANY: Foor & Associates

SPEC #: \_\_\_\_\_

### QUESTION:

Drawing P1.0, General Note #16 states, all exposed sanitary pipe is to receive 1" thick foam glass with Pitt wrap

and .016 stainless steel jacket. This material is very expensive and labor intensive to install. Can 1" thick fiberglass

be used instead of foam glass because it's going to be jacketed anyway and can aluminum jacketing be used

instead of stainless steel?

ATTACHMENTS: \_\_\_\_\_

SIGNED: Tina Learn

DATE: June 16, 2026

### RESPONSE:

**SPECIFIED INSULATION IS AN EFFORT TO REDUCE VANDALISM DUE TO ACCESSIBILITY.**

**PLEASE PROVIDE INSULATION PACKAGE AS SPECIFIED.**

ATTACHMENTS: \_\_\_\_\_

SIGNED: DYLAN WARD

DATE: 6/16/26

COMPANY: LABELLA

THE RESPONSE CONTAINS ALL NECESSARY INFORMATION

ADDITIONAL INFORMATION IS REQUESTED → SEE NEW RFI #: \_\_\_\_\_

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

**SPECIFICATIONS:**

- I. DUCT INSULATION:**
- A. EXPOSED, ROUND AND FLAT-OVAL, SUPPLY-AIR DUCT INSULATION SHALL BE THE FOLLOWING:
- MINERAL-FIBER BOARD: 4 INCHES THICK AND 3-LB/CU. FT. NOMINAL DENSITY.
- B. EXPOSED, RECTANGULAR, SUPPLY-AIR DUCT INSULATION SHALL BE THE FOLLOWING:
- MINERAL-FIBER BOARD: 4 INCHES THICK AND 3-LB/CU. FT. NOMINAL DENSITY.
- C. EXPOSED, SUPPLY-AIR PLENUM INSULATION SHALL BE THE FOLLOWING:
- MINERAL-FIBER BOARD: 4 INCHES THICK AND 3-LB/CU. FT. NOMINAL DENSITY.
- D. EXPOSED, EXHAUST-AIR PLENUM INSULATION SHALL BE THE FOLLOWING:
- MINERAL-FIBER BOARD: 2 INCHES THICK AND 3-LB/CU. FT. NOMINAL DENSITY.
- II. CONDENSATE WATER PIPING SYSTEMS:**
- A. TUBE SIZE 3" AND SMALLER: COPPER TUBE - CONDENSATE PIPING.
- WALL THICKNESS: TYPE K.
  - FITTINGS: 1/2" TO 2" - VIEGA PROGRESS WITH EPDM SEALS. 2-1/2" AND LARGER - VIEGA PROGRESS XL WITH EPDM SEALS.
- B. INSTALL PIPE, TUBE AND FITTINGS IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES WHICH WILL ACHIEVE PERMANENTLY LEAKPROOF PIPING SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT PIPING FAILURE. INSTALL EACH RUN WITH MINIMUM JOINTS AND COUPLINGS, BUT WITH ADEQUATE AND ACCESSIBLE UNIONS FOR DISASSEMBLY AND MAINTENANCE/REPLACEMENT OF VALVES AND EQUIPMENT. REDUCE SIZES (WHERE INDICATED) BY USE OF REDUCING FITTINGS. ALIGN PIPING ACCURATELY AT CONNECTIONS, WITHIN 1/16" MISALIGNMENT TOLERANCE. COMPLY WITH ANSI B31 CODE FOR PRESSURE PIPING.

- III. FIELD QUALITY CONTROL:**
- 1.1 FIELD QUALITY CONTROL.
- CONDENSATE DRAIN PIPING SYSTEMS:**
- A. CONDENSATE AND DRAIN: TUBE SIZE 2-1/2" AND SMALLER: COPPER TUBE PIPING.
- WALL THICKNESS: TYPE K.
  - FITTINGS: 1/2" TO 2" - VIEGA PROGRESS WITH EPDM SEALS. 2-1/2" AND LARGER - VIEGA PROGRESS XL WITH EPDM SEALS.
- C. INSTALL PIPE, TUBE AND FITTINGS IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES WHICH WILL ACHIEVE PERMANENTLY LEAKPROOF PIPING SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT PIPING FAILURE. INSTALL EACH RUN WITH MINIMUM JOINTS AND COUPLINGS, BUT MAINTENANCE/REPLACEMENT OF VALVES AND EQUIPMENT. REDUCE SIZES (WHERE INDICATED) BY USE OF REDUCING FITTINGS. ALIGN PIPING ACCURATELY AT CONNECTIONS, WITHIN 1/16" MISALIGNMENT TOLERANCE. COMPLY WITH ANSI B31 CODE FOR PRESSURE PIPING.

- IV. SUPPORTS, ANCHORS AND SEALS:**
- A. HORIZONTAL PIPING HANGERS AND SUPPORTS.
- ADJUSTABLE STEEL CLEVISSES.
    - MATERIAL: CARBON STEEL.
    - FINISH: PLASTIC COATING.
  - ADJUSTMENT: HANGER TO BE ADJUSTABLE FOR VERTICAL HEIGHT OF WITHOUT REMOVING THE PIPE.
2. PIPE SADDLE SUPPORT WITH BASE STAND.
- MATERIAL: CARBON STEEL.
  - FINISH: ELECTROPLATED WITH PLASTIC COATING.
- C. ADJUSTMENT: HANGER TO BE ADJUSTABLE FOR VERTICAL HEIGHT OF WITHOUT REMOVING THE PIPE.
- B. VERTICAL PIPING CLAMPS:**
- TWO BOLT RISER CLAMP.
    - MATERIAL: CARBON STEEL.
    - FINISH: BLACK.
- C. HANGER ROD AND SPACING
- GENERAL: EXCEPT AS OTHERWISE INDICATED, PROVIDE HANGER-ROD ATTACHMENTS COMPLYING WITH THE FOLLOWING SCHEDULE.

ROD SIZE AND SPACING SCHEDULE			
PIPE SIZE	MAXIMUM SPACING		ROD SIZE
	STEEL	COPPER	
1-1/4" TO 1-1/2"	10 FT	6 FT	3/8"
2"	12 FT	10 FT	3/8"
2-1/2" TO 3"	12 FT	10 FT	1/2"

- V. TESTING:**
- TEST, ADJUST AND BALANCE HVAC AIR SYSTEMS AND COMPONENTS, TO AIR VOLUMES AND/OR PRESSURES INDICATED.
  - PREPARE REPORT OF TEST RESULTS, INCLUDING INSTRUMENTATION CALIBRATION REPORTS, IN FORMAT RECOMMENDED BY APPLICABLE STANDARDS.
  - PATCH HOLES IN INCULCATION, DUCTWORK AND HOUSINGS, WHICH HAVE BEEN CUT OR DRILLED FOR TEST PURPOSES, IN MANNER RECOMMENDED BY ORIGINAL INSTALLER.
  - MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS, VALVE INDICATORS, FAN SPEED CONTROL LEVES, AND SIMILAR CONTROLS DEVICES, TO SHOW FINAL SETTINGS AT COMPLETION OF TAB WORK. PROVIDE MARKINGS WITH PAINT OR OTHER SUITABLE PERMANENT IDENTIFICATION MATERIALS.

- VI. STARTUP AND COMMISSIONING OF AIR SYSTEMS**
- A. ALL HEATING VENTILATION AND AIR CONDITIONING SYSTEMS SHALL BE TESTED TO DEMONSTRATE THAT SPECIFIED CAPACITIES OF VARIOUS PARTS OF SYSTEM AS SHOWN ON DRAWINGS CAN BE MET. SYSTEM ADJUSTING AND TESTING SHALL NOT BEGIN UNTIL HEATING CONTRACTOR HAS SYSTEM COMPLETED, IN FULL WORKING ORDER.
- B. BALANCE EQUIPMENT AND SYSTEMS LISTED BELOW AND PROVIDE ELECTRONIC PDF FORMAT BALANCE REPORT.
- INDOOR DUCTED AC UNITS.
- C. BALANCE ALL GRILLES DIFFUSERS, DIFFERENTIAL PRESSURE, ETC. TO WITHIN 10% OF VALUES INDICATED.

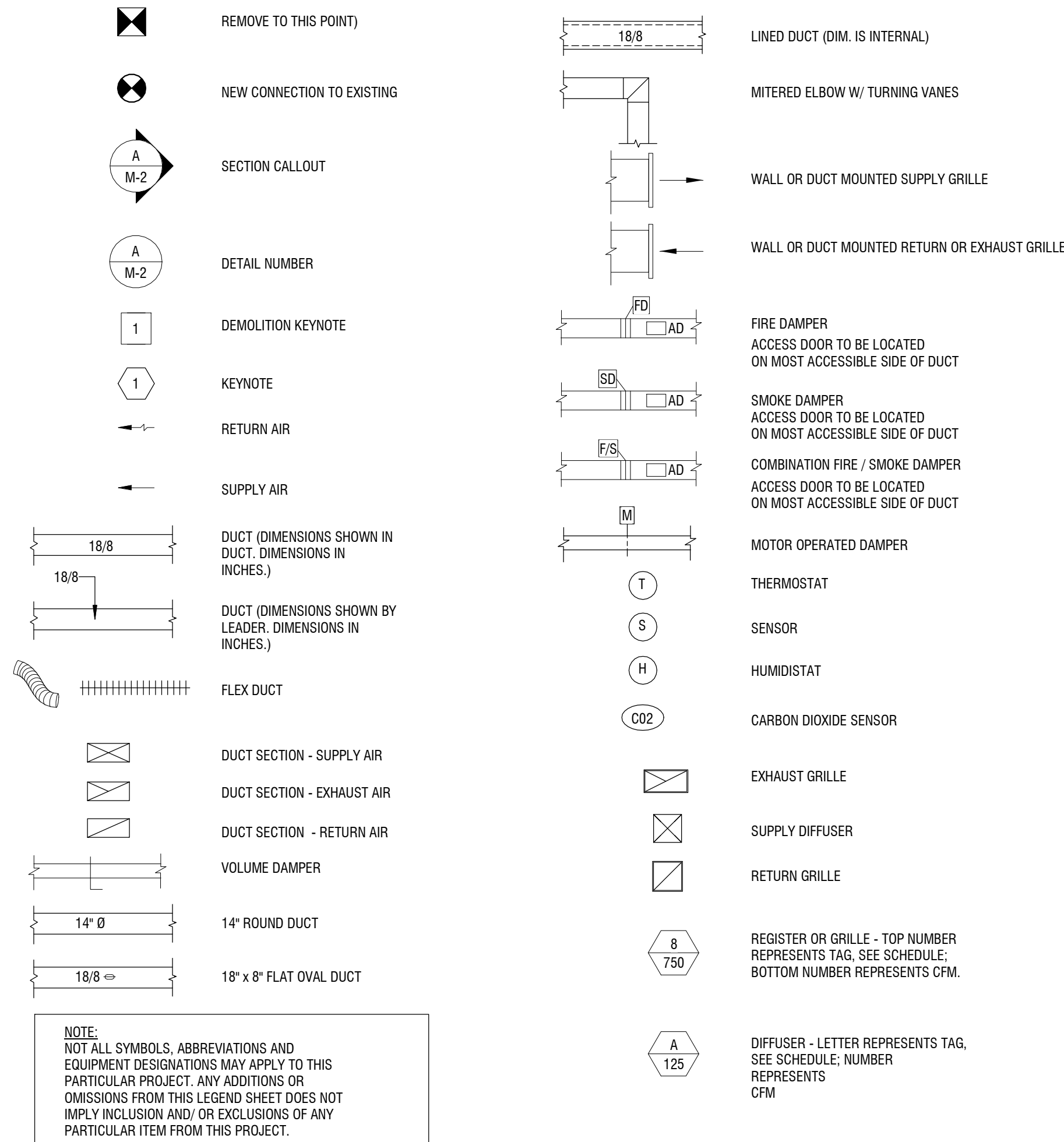
- VII. REFRIGERANT PIPING SYSTEMS.**
- A. LINESETS: DIAMOND BACK LINE SETS, COPPER TUBES, ANNEALED, REFRIGERANT GRADE, ACR TUBES.
- INDIVIDUALLY INSULATED WITH MITSUBISHI ELECTRIC'S "TWIN TUBE"- SINGLE PIECE MOLDED-CLOSED CELL FOAM INSULATION.
    - FLAME SPREAD INDEX < 25.
    - SMOKE DEVELOPMENT INDEX < 50.
  - FLARED CONNECTIONS.
  - SUPPLIED WITH MINI-SPLIT SYSTEM, FIELD INSTALLED.

- 1. CONDENSATE DRAIN PIPING.**
- TUBE SIZE 2-1/2" AND SMALLER: COPPER TUBE.
    - WALL THICKNESS, TYPE K.
    - FITTINGS, WROUGHT COPPER SOLDER JOINTS (MUELLER FITTINGS).
- 2. REFRIGERANT PIPING.**
- A. INSTALL PIPE, TUBE AND FITTINGS IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES WHICH WILL ACHIEVE PERMANENTLY LEAKPROOF PIPING SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT PIPING FAILURE. INSTALL EACH RUN WITH MINIMUM JOINTS AND COUPLINGS, BUT WITH ADEQUATE AND ACCESSIBLE UNIONS FOR DISASSEMBLY AND MAINTENANCE/REPLACEMENT OF VALVES AND EQUIPMENT. REDUCE SIZES (WHERE INDICATED) BY USE OF REDUCING FITTINGS. ALIGN PIPING ACCURATELY AT CONNECTIONS, WITHIN 1/16" MISALIGNMENT TOLERANCE. COMPLY WITH ANSI B31 CODE FOR PRESSURE PIPING.

- VIII. REFRIGERANTS:**
- A. R-545B.
- B. REFRIGERANT PIPING INSTALLATION**
- DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS; INDICATED LOCATIONS AND ARRANGEMENTS WERE USED TO SIZE PIPE AND CALCULATE FRICTION LOSS. EXPANSION, PUMP SIZING AND OTHER DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON SHOP DRAWINGS.
  - INSTALL REFRIGERANT PIPING ACCORDING TO ASHRAE 15.
  - INSTALL PIPING IN CONCEALED LOCATIONS UNLESS OTHERWISE INDICATED AND EXCEPT IN EQUIPMENT ROOMS AND SERVICE AREAS.
  - INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE.
  - INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL.
  - INSTALL PIPING ADJACENT TO MACHINES TO ALLOW SERVICE AND MAINTENANCE.
  - INSTALL PIPING FREE OF SAGS AND BENDS.
  - INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.
  - SELECT SYSTEM COMPONENTS WITH PRESSURE RATING EQUAL TO OR GREATER THAN SYSTEM OPERATING PRESSURE.
  - INSTALL PIPING AS SHORT AND DIRECT AS POSSIBLE, WITH A MINIMUM NUMBER OF JOINTS, ELBOWS AND FITTINGS.
  - SLOPE REFRIGERANT PIPING AS FOLLOWS:
    - INSTALL HORIZONTAL HOT-GAS DISCHARGE PIPING WITH UNIFORM SLOPE DOWNWARD AWAY FROM THE COMPRESSOR.
    - INSTALL HORIZONTAL SUCTION LINES WITH A UNIFORM SLOPE DOWNWARD TO COMPRESSOR.
    - INSTALL TRAPS AND DOUBLE RISERS TO ENTRAIN OIL IN VERTICAL RUNS.
    - LIQUID LINES MAY BE INSTALLED LEVEL.
  - WHEN BRAZING OR SOLDERING, REMOVE SOLENOID-VALVE COILS AND SIGHT GLASSES; ALSO REMOVE VALVE STEMS, SEATS, AND PACKING, AND ACCESSIBLE INTERNAL PARTS OF REFRIGERANT SPECIALTIES. DO NOT APPLY HEAT NEAR EXPANSION-VALVE BULB.
  - INSTALL PIPING WITH ADEQUATE CLEARANCE BETWEEN PIPE AND ADJACENT WALLS AND HANGERS OR BETWEEN PIPES FOR INSULATION INSTALLATION.
  - INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS AND FLOORS.
  - INSTALL INSULATION FOR PIPING, INCLUDING EXTERIOR JACKETING SYSTEM, SEAL PENETRATIONS OF CURBS WATER TIGHT WITH SEALANT, FLASHING AND COUNTER FLASHING.

- C. FLEXIBLE ELASTOMERIC, PREFORMED PIPE INSULATION:**
- 1 INCH THICK ON REFRIGERANT SUCTION, 1/2" ON REFRIGERANT LIQUID PIPING.
  - EXTERIOR PIPING INSULATION SHALL BE UV RATED, UV RESISTANCE, ASTM G-7: MINIMAL CRACKING AND DEGRADATION.

**DRAWING SYMBOLS**



**NOTE:**  
NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

**ABBREVIATIONS**

% PERCENT	FA FREE AREA	NIC NOT IN CONTRACT
AC ALTERNATING CURRENT	FIN FINISHED	NO NORMALLY OPEN
ADJ ADJACENT	FL FLOOR	NPT NATIONAL PIPE TREAD
AFF ABOVE FINISHED FLOOR	FLA FULL LOAD AMPS	NRS NON-RISING STEM
AFS ABOVE FINISHED GRADE	FPM FEET PER MINUTE	NTS NOT TO SCALE
ALT ALTERNATE	FPS FEET PER SECOND	OC ON CENTER
AMB AMBIENT	FT FOOT OR FEET	OD DIAMETER, OUTSIDE
AMP AMPERE (AMP AMPS)	FUT FUTURE	OS&Y OUTSIDE SCREW AND YOKE
ANS AMERICAN NATIONAL STANDARD INSTITUTE	GA GAGE OR GAUGE	PC PLUMBING CONTRACTOR
APPROX APPROXIMATE (LY)	GAL GALLONS	PL&B PLUMBING
AVG AVERAGE	GC GENERAL CONTRACTOR	PH PHASE (ELECTRICAL)
BFP BACKFLOW PREVENTER	GPM GALLONS PER MINUTE	PRESS PRESSURE
BHP BRAKE HORSEPOWER	GPD GALLONS PER DAY	PSF POUNDS PER SQUARE FOOT
BLDG BUILDING	GPH GALLONS PER HOUR	PSI POUNDS PER SQUARE INCH
BO BOTTOM OF	HD HEAD	PSIG POUNDS PER SQUARE INCH
BSMT BASEMENT	HG MERCURY	PRV PRESSURE REDUCING VALVE
BTU BRITISH THERMAL UNIT	HORIZ HORIZONTAL	RCVR RECEIVER
BV BALANCING VALVE	HP HORSEPOWER	RECIRC RECIRCULATE
CAP CAPACITY	HPC HIGH PRESSURE CONDENSATE	RHW HOT WATER RE-CIRCULATION
COL CAST IRON PIPE	HPS HIGH PRESSURE STEAM	RO ROUGH OPENING
CLR CEILING	HR HOUR	RPDA REDUCED-PRESSURE DETECTOR ASSY.
CLR CLEAR	HVAC HEATING, VENTILATING, AND AIR CONDITIONING	RPM REVOLUTIONS PER MINUTE
CO CLEANOUT OR CARBON MONOXIDE	HZ FREQUENCY	RPZ REDUCED-PRESSURE ZONE
COLM COLUMM	ID INCH	SCH STEAM CAPTURE HOOD
CONN CONNECTION	IN INCH	SPEC SPECIFICATION
CONC CONCRETE	INSUL INSULATION	SPLY SUPPLY
CONT CONTINUOUS	INT INTERIOR	SQ SQUARE
CU FT CUBIC FEET	IPS IRON PIPE SIZE	SQ FT SQUARE FOOT (FEET)
CV VALVE FLOW COEFFICIENT	INV INVERT	SO IN SQUARE INCH (INCHES)
DCDA DOUBLE CHECK DETECTOR ASSEMBLY	KW KILOWATT	STD STANDARD
DCV DETECTOR CHECK VALVE	KWH KILOWATT HOUR	SUCT SUCTION
DCW DOMESTIC COLD WATER	LBS POUNDS	TSTAT THERMOSTAT
DEMO DEMOLISH OR DEMOLITION	LF LINEAR FEET	TBD TO BE DETERMINED
DHW DOMESTIC HOT WATER	LG LENGTH	TC TEMPERATURE CONTROL CONTRACTOR
DIA DIAMETER	LOC LOCATION	TD TEMPERATURE DIFFERENCE
DIP DUCTILE IRON PIPE	LPC LOW PRESSURE CONDENSATE	TEMP TEMPERATURE
DWH DOMESTIC WATER HEATER	LPS LOW PRESSURE STEAM	TMV THERMOSTATIC MIXING VALVE
DWG DRAIN, WASTE, & VENT	LRA LOCKED ROTOR AMPS	TO TOP OF
DWT LEAVING WATER TEMPERATURE	LWT LEAVING WATER TEMPERATURE	TYP TYPICAL
(E) EXISTING	MATL MATERIAL	V VOLT
ENGR ENGINEER	MAX MAXIMUM	VAC VACUUM
EQ EQUAL	MBH BTU PER HOUR (THOUSAND)	VAR VARIABLE
EST ESTIMATED	MECH MECHANICAL	VEL VELOCITY
ETR EXISTING TO REMAIN	MFG MANUFACTURER	VF VERT IN FIELD
EWL ELECTRIC WATER HEATER	MIN MINIMUM	VOL VOLUME
EWT ENTERING WATER TEMPERATURE	MISC MISCELLANEOUS	W WATT
EX EXISTING	MOPP MAXIMUM OVERCURRENT PROTECTION	W/ WITH
EXIST EXISTING	MPC MEDIUM PRESSURE CONDENSATE	WO WITH OUT
EXP EXPANSION	MPS MEDIUM PRESSURE STEAM	WCO WALL CLEANOUT
EXT EXTERIOR	MTG MOUNTING	WHA WATER HAMMER ARRESTER
F DEGREES FAHRENHEIT	NA NOT APPLICABLE	WM WATER METER
	NC NORMALLY CLOSED	WPD WATER PRESSURE DROP
		WT WORKING WATER PRESSURE
		WVP

**NOTE:**  
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

**DUCTWORK GENERAL NOTES**

- HVAC CONTRACTOR TO PROVIDE CRANE AND NECESSARY EQUIPMENT TO HOIST ROOF MOUNTED HVAC EQUIPMENT FROM SITE TO FINAL ROOF LOCATION. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN INTERIM FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.
- PROVIDE 45 DEGREE SHOE-TAP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS (TOP, SIDE AND BOTTOM) FOR SUPPLY, RETURN AND EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE. VOLUME DAMPERS SHALL BE OMITTED FROM VAV INLET BRANCH DUCTWORK.
- COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.
- INSULATE OR LINE DUCTWORK AS SPECIFIED IN THE MECHANICAL INSULATION AND METAL DUCTS SPECIFICATIONS OR NOTED ON DRAWINGS. NOTE THAT DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE NET CLEAR DIMENSIONS.
- ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES. TURNING VANES SHALL BE OMITTED FROM AIR TRANSFER DUCT ELBOWS.
- ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.
- HVAC CONTRACTOR TO PROVIDE ALL WALL & ROOF PENETRATIONS 8"x8" OR SMALLER. ALL PENETRATIONS LARGER THAN 8"x8" IS THE RESPONSIBILITY OF THE G.C. COORDINATE ALL 8"x8" OR LARGER PENETRATION LOCATIONS WITH G.C. LINTELS (BY G.C.) REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. PENETRATIONS AND LINTEL LOCATIONS TO BE COORDINATED WITH G.C. AND DOCUMENTED ON COORDINATION DRAWINGS.
- ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE STRUCTURAL STEEL WHERE REQUIRED IN ORDER TO SUPPORT EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES WHERE THE BUILDING STRUCTURE SPACING IS TOO GREAT TO ALLOW DIRECT SUPPORT. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF ALL SUPPORTS AND SHALL OBTAIN THE PROFESSIONAL SERVICE OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND FURNISH SEALED DRAWINGS AND DETAILS ILLUSTRATING SUCH SUPPORTS AND COMPLIANCE METHODS.
- INSULATE ALL DUCTWORK PER NYS ENERGY CODE.
- THE ABOVE GENERAL NOTES APPLY TO ALL HVAC CONSTRUCTION DOCUMENT DRAWINGS.

**REQUIRED SHOP DRAWING SUBMITTALS**

- MINI SPLIT SYSTEM
- REFRIGERANT PIPING
- DUCTWORK SHOP DRAWING
- CONDENSATE PIPING
- CONDENSATE PUMPS
- INSULATION
- CONDENSING UNIT STAND
- PIPING PENETRATION GRADUATED BOOT SYSTEM
- REGISTERS, GRILLES, AND DIFFUSERS

**TABLE 1\***

OUTSIDE DIAMETER OF PIPE/DUCT/COVERING	LENGTH OF COLOR FIELD	SIZE OF LETTERS
1/4" TO 1/2"	6"	1/4"
3/4" TO 1-1/4"	8"	1/2"
1-1/2" TO 2"	8"	3/4"
2-1/2" TO 6"	12"	1-1/4"
8" TO 10"	24"	2-1/2"
OVER 10"	32"	3-1/2"

**MECHANICAL SHEET INDEX:**

M1.0	MECHANICAL SPECIFICATIONS, SYMBOLS, AND ABBREVIATIONS
M3.0	ELEVATOR A PLANS
M3.1	ELEVATOR C PLANS
M5.0	MECHANICAL DETAILS & SCHEDULES

**Foor & Associates Architects**

111 North Main Street  
Elmira, New York 14901  
Phone: 607.733.4613  
Fax: 607.734.0120

5 East Wellsboro Street  
Mansfield, Pennsylvania 16933  
Phone: 570.662.3667  
Fax: 570.662.3671

**LaBella**  
Powered by partnership.

100 West Water Street, Suite 101  
Elmira, NY 14901  
607-734-8492  
labellapcc.com

Project Number: 2244352

**PROJECT & CLIENT**

**ELEVATOR MODERNIZATION FOR**

**CENTERTOWN PARKING GARAGE**

101 WEST GRAY STREET  
ELMIRA NY

**REVISIONS**

1	REBID	MAY, 2026
2	ADDENDUM 3	JUNE, 2026

**DRAWING TITLE**

**MECHANICAL SPECIFICATIONS, SYMBOLS, AND ABBREVIATIONS**

DATE: NOVEMBER, 2024  
DRAWN BY: JWT

JOB NO. 4062  
DWG. NO. M1.0

6/16/2026 12:57:17 PM