

MECHANICAL SYMBOLS

PIPING

	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RECIRC. PIPING
	SANITARY PIPING
	STORM DRAIN PIPING
	VENT PIPING
	COMPRESSED AIR PIPING
	NATURAL GAS PIPING
	WATER SERVICE PIPING
	DIRECTION OF FLOW IN PIPING
	CONTROL VALVE
	THREE WAY CONTROL VALVE
	GATE (SHUT OFF) VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	PIPE ANCHOR
	EXPANSION JOINT
	PRESSURE GAUGE
	UNION
	FLANGE CONNECTION
	FLOW SWITCH
	PIPING ELBOW UP
	PIPING ELBOW DOWN
	PIPING TEE UP
	PIPING TEE DOWN
	PIPING TEE
	90° ELBOW
	PIPING CAP

PIPING CONTINUED . . .

	MANUAL AIR VENT
	CLEANOUT
	PIPING REDUCER
	PIPING INCREASER
	LUBRICATED PLUG VALVE
	BALL VALVE
	PRESSURE REGULATING VALVE
	HOSE GATE VALVE
	GLOBE VALVE
	VACUUM BREAKER
	GAUGE COCK
	PRESSURE RELIEF VALVE
	VENT THRU ROOF

STANDARD MOUNTING HEIGHTS (UNLESS NOTED OTHERWISE)

MECHANICAL THERMOSTATS (USER ADJ.)	54"
CONTROLS (CENTERLINE)	54"

ABBREVIATIONS

A	AMPS, AIR (COMPRESSED)
A/C	AIR CONDITIONING
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFF	BELOW FINISHED FLOOR
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CO	CLEANOUT
CU	COPPER, CONDENSING UNIT
CW	COLD WATER
DN	DOWN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
FD	FIRE DAMPER, FLOOR DRAIN
FF	FINISHED FLOOR
IN. WC	INCHES OF WATER COLUMN
MBH	1000 BTU PER HOUR

ABBREVIATIONS CONTINUED...

MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MTD	MOUNTED
N/A	NOT APPLICABLE
NC	NOSE CRITERIA
OA	OUTSIDE AIR
OC	ON CENTER
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SS	STAINLESS STEEL, SANITARY SEWER
TSTAT	THERMOSTAT
UH	UNIT HEATER
VTR	VENT THROUGH ROOF
WC	WATER COLUMN

HVAC EQUIPMENT AND DUCTWORK

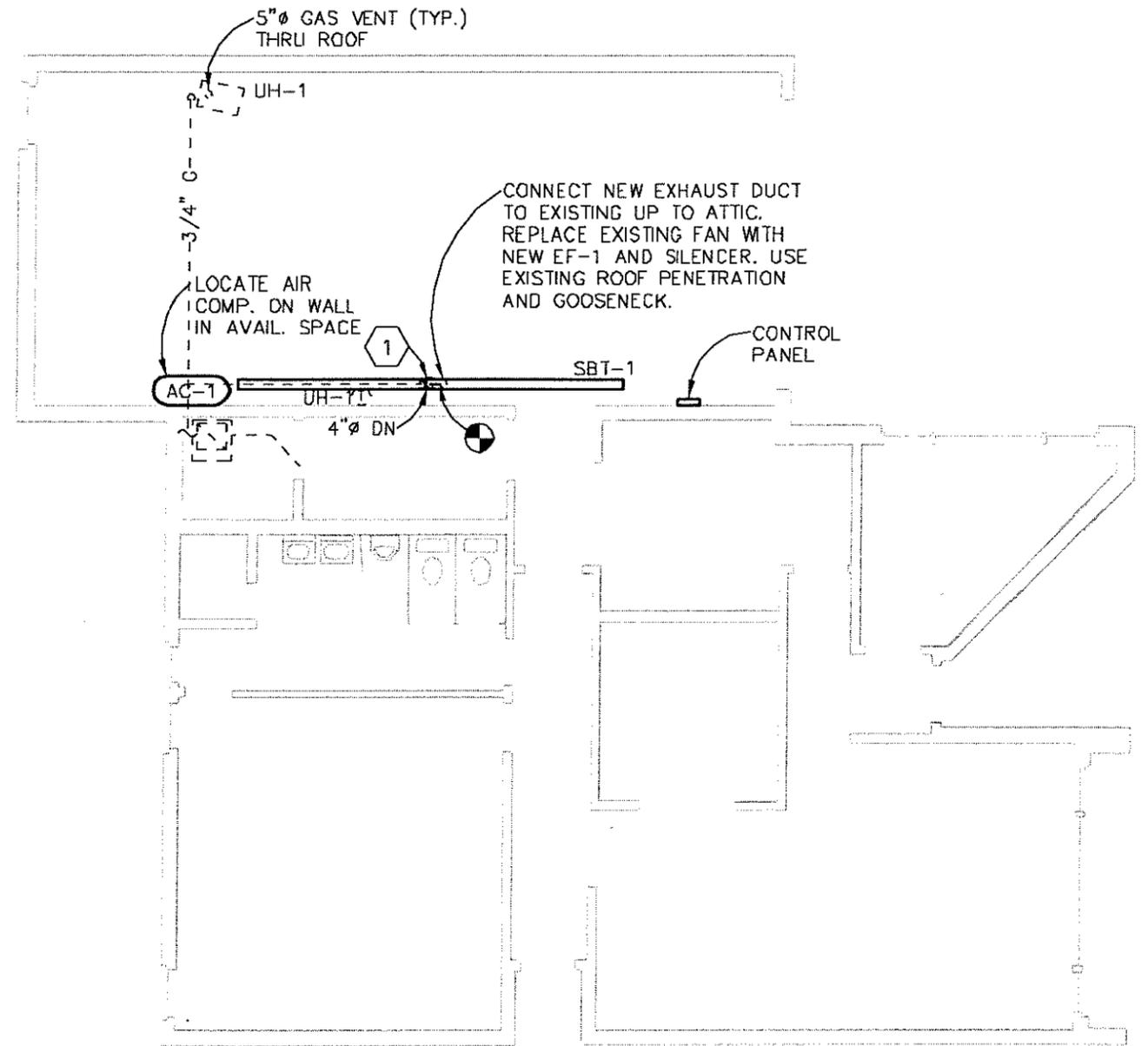
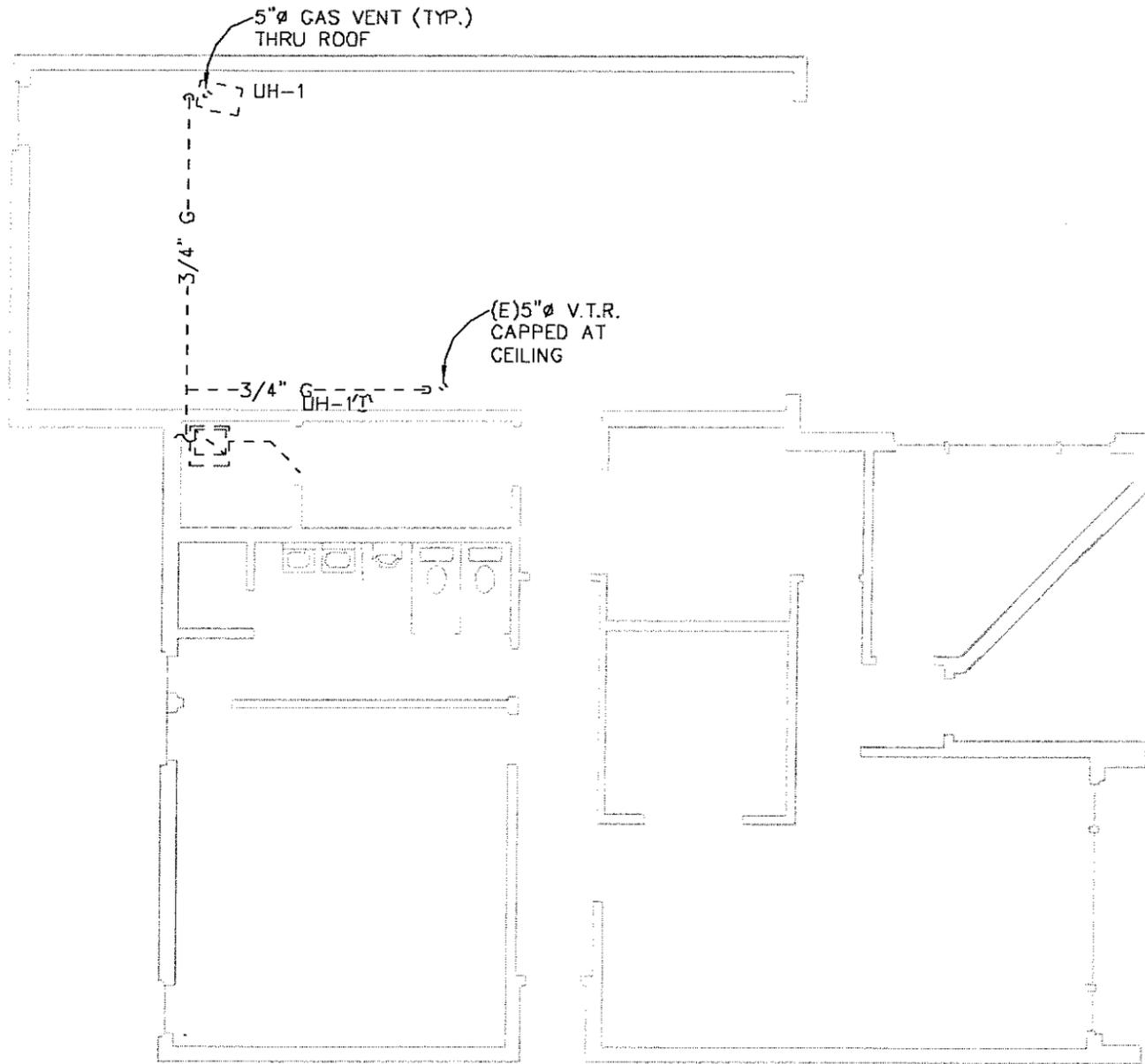
NOTE: ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS.

	RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP
	RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN
	EQUIPMENT WITH FLEXIBLE DUCT CONNECTION
	MANUAL VOLUME CONTROL DAMPER
	BRANCH DUCT WITH MANUAL VOLUME CONTROL DAMPER
	SQUARE TO ROUND TRANSITION
	THERMOSTAT
	TEMPERATURE SENSOR
	MOTORIZED DAMPER DESIGNATION
	ROUND/OVAL DUCT RISER
	RECTANGULAR DUCT (1ST FIG. SIDE SHOWN)
	ROUND DUCT (1ST FIG. = DIAMETER)
	FLAT OVAL DUCT (1ST FIG. SIDE SHOWN)
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT
	TRANSITION IN DUCT SIZE
	DUCT PRESSURE CLASSIFICATION (FIRST NUMBER INDICATES UPSTREAM PRESSURE, SECOND NUMBER INDICATES DOWNSTREAM PRESSURE) (INCHES W.G. STATIC PRESSURE)

MECHANICAL GENERAL NOTES

1. THE DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL OBTAIN EXACT LOCATION, MEASUREMENTS, LEVELS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT THE WORK TO THE ACTUAL CONDITIONS AT THE BUILDING. ALL LAYOUTS TO BE APPROVED BY ARCHITECT/OWNER/ENGINEER PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMITTING A BID TO EXAMINE THE CONDITIONS AT THE SITE AND INFORM HIMSELF OF ALL DETAILS.
3. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL ENGINEERING REQUIREMENTS, FEDERAL, STATE AND LOCAL CODES, THE OWNER'S DESIGN CRITERIA, UTILITY COMPANY REQUIREMENTS, APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE AND SAFETY AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.
4. MANUFACTURERS' NAMES ON WHICH THIS SPECIFICATION IS BASED INDICATE THE MINIMUM QUALITY OF PRODUCT REQUIRED BY ENGINEER. SUBSTITUTIONS MAY BE MADE TO THOSE SPECIFIED IF DEEMED EQUIVALENT BY THE ENGINEER. CHANGES IN THE DESIGN REQUIRED BY EQUIVALENT MANUFACTURERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. SUBMIT 3 COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT SUPPLIED FOR APPROVAL BY ARCHITECT/ENGINEER/OWNER.
6. AS-BUILT DRAWINGS - PREPARE AND SUBMIT TO THE OWNER "AS-BUILT" DRAWINGS INDICATING THE EXACT LOCATION OF ALL EQUIPMENT INCLUDING THE EQUIPMENT'S "AS INSTALLED" SIZE(S). MANUFACTURER, MODEL NUMBERS, AND PERFORMANCE RATINGS.
7. SUPPORTS - EQUIPMENT, PIPING, DUCTWORK OR ANY OTHER ACCESSORY SHALL NOT BE SUPPORTED FROM OTHER PIPING, DUCTWORK, METAL ROOF DECK, LATERAL BRACING BRIDGING, OR CONDUIT. ITEMS SHALL ONLY BE SUPPORTED FROM BUILDING STRUCTURE.
8. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL MECHANICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.
9. ALL DUCTWORK, PIPING, AND TEMPERATURE CONTROL CONDUIT TO VIBRATING EQUIPMENT SHALL HAVE FLEXIBLE CONNECTORS.
10. CONTRACTOR IS RESPONSIBLE FOR PROPER SUPPORT OF ALL EQUIPMENT, DUCTWORK, ETC. COORDINATE EXACT LOCATION OF ALL DUCTWORK, AIR TERMINAL UNITS, PIPING, ETC., WITH STRUCTURAL, ARCHITECTURAL, ELECTRICAL, AND OTHER MECHANICAL SYSTEMS.
11. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PRESSURE AND/OR TEMPERATURE TAPS IN PIPING AS REQUIRED FOR PROPER BALANCING OF ALL SYSTEMS.
12. EXISTING GARAGE DOOR SENSORS SHALL REMAIN FOR ALL TRUCKS AND FACILITIES.
13. TAILPIPE MODIFICATIONS AS NECESSARY FOR ALL VEHICLES SHALL BE INCLUDED AS A SEPARATE ITEM IN THE BID PRICING.

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EXHAUST FAN SCHEDULE

MARK	STATION #	MANUFACTURER & MODEL OR EQUAL	SERVES	FAN INFORMATION			MOTOR				NOTES
				CFM	E.S.P. (IN. W.C.)	RPM	HP	VOLTS / PH	MOC	DRIVE	
EF-3	1 (NORTH)	PLYMOVENT TEV-A-559-60	VEHICLE EXHAUST	3000	6	3500	7.5	208 / 3	20	DIRECT	1,2,3,4
EF-2	1 (SOUTH)	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	2500	5	3500	5	208 / 3	20	DIRECT	1,2,3,4
EF-2	2	PLYMOVENT TEV-A-559-60	VEHICLE EXHAUST	2000	5	3500	5	240 / 1	40	DIRECT	1,2,3,4
EF-1	3	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	1000	5	3500	3	208 / 1	20	DIRECT	1,2,3,4
EF-1	4	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	1500	5	3500	3	240 / 1	40	DIRECT	1,2,3,4
EF-1	5	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	1500	5	3500	3	208 / 1	20	DIRECT	1,2,3,4
EF-1	6	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	1000	5	3500	3	208 / 1	20	DIRECT	1,2,3,4
EF-1	7	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	1000	5	3500	3	240 / 1	40	DIRECT	1,2,3,4
EF-1	8	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	1000	5	3500	3	240 / 1	40	DIRECT	1,2,3,4
EF-1	9	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	1000	5	3500	3	208 / 1	20	DIRECT	1,2,3,4
EF-1	10	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	1000	5	3500	3	208 / 1	20	DIRECT	1,2,3,4
EF-1	12	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	500	5	3500	3	240 / 1	40	DIRECT	1,2,3,4
EF-1	13	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	500	5	3500	3	240 / 1	40	DIRECT	1,2,3,4
EF-1	14	PLYMOVENT TEV-A-3110-60	VEHICLE EXHAUST	1500	5	3500	3	208 / 1	20	DIRECT	1,2,3,4

NOTES:

1. PROVIDE WITH OS3 CONTROLLER, MOUNTING KIT, SILENCER, AND VIBRATION ISOLATORS.
2. WALL, CEILING, OR ROOF MOUNT FAN AND EXHAUST FLUE HIGH AND CLEAR OF INTAKE HOODS AND OTHER OBSTRUCTIONS.
3. PROVIDE RAIN CAP ON EXTERIOR EXHAUST FLUE UNLESS NOTED OTHERWISE.
4. MAGNAGRIP BY NEDERMAN AND OTHER APPROVED EQUALS ARE ACCEPTABLE FOR BID, BUT THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED CHANGES IN DESIGN.

EXHAUST TRACK SCHEDULE

MARK	MANUFACTURER & MODEL OR EQUAL	SERVES	HOSE INFORMATION			NOTES
			CFM	E.S.P. (IN. W.C.)	DIA.	
SBT-1	PLYMOVENT SBTA-21	VEHICLE EXHAUST	500	5	4"	1,2,3,4
STR-1	PLYMOVENT SRT	VEHICLE EXHAUST	500	5	4"	1,2,3,4
FEB-1	PLYMOVENT FEB-3-150	VEHICLE EXHAUST	500	5	4"	4

NOTES:

1. PROVIDE A COMPLETE OPERATIONAL SYSTEM WITH GRABBER NOZZLE, EXHAUST MODIFICATION KIT, BALANCER, TRACK AND SUPPORTS.
2. PROVIDE WITH HIGH TEMP. RESISTANT HOSE, MANUAL FILL VALVE, AND SAFETY DISCONNECT.
3. PROVIDE AND INSTALL STAINLESS STEEL PROTECTIVE SHIELDING AS REQUIRED TO PROTECT INSTALLATION FROM OVERHEATING BY EXISTING RADIANT HEAT EQUIP.
4. MAGNAGRIP BY NEDERMAN AND OTHER APPROVED EQUALS ARE ACCEPTABLE FOR BID, BUT THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED CHANGES IN DESIGN.

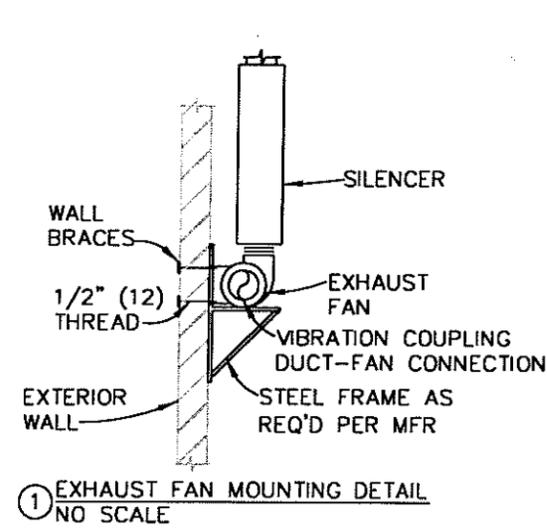
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AIR COMPRESSOR SCHEDULE

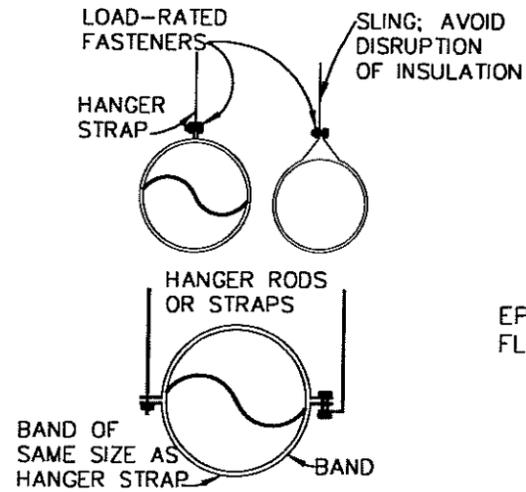
MARK	MANUFACTURER & MODEL OR EQUAL	SERVES	TANK INFORMATION			COMPRESSOR INFO		MOTOR			NOTES
			VOL (GAL)	L X W X H (IN)	MAX PSI	CFM	RPM	HP	V/PH/HZ	DRIVE	
AC-1	INGERSOLL RAND SS3F2-GM	GRABBER	30	46 X 25 X 35	135	5.7 @ 90 PSI	3500	2	120/1/60	DIRECT	1,2,3,4

NOTES:

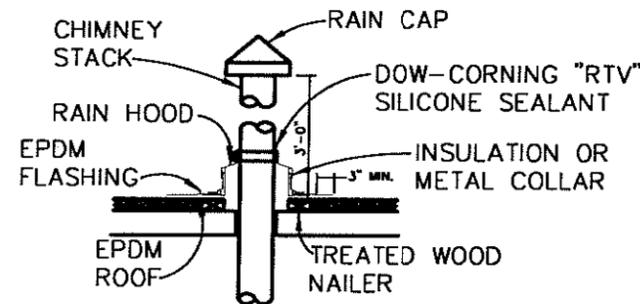
1. PROVIDE WITH ADJUSTABLE PRESSURE REGULATOR CAPABLE OF HANDLING 200 PSI AIR AND REDUCING IT TO 0-25 PSI.
2. INSTALL WITH AIR DRIER SYSTEM EQUIPED WITH AUTO DUMP.
3. PROVIDE WALL MOUNTING STRUCTURE WHERE NECESSARY ON PLANS PER MANUFACTURER'S REQUIREMENTS.
4. MAGNAGRIP BY NEDERMAN AND OTHER APPROVED EQUALS ARE ACCEPTABLE FOR BID, BUT THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED CHANGES IN DESIGN.



① EXHAUST FAN MOUNTING DETAIL
NO SCALE



② DUCT HANGER DETAIL
NO SCALE



③ TYPICAL VENT THRU ROOF DETAIL
NO SCALE

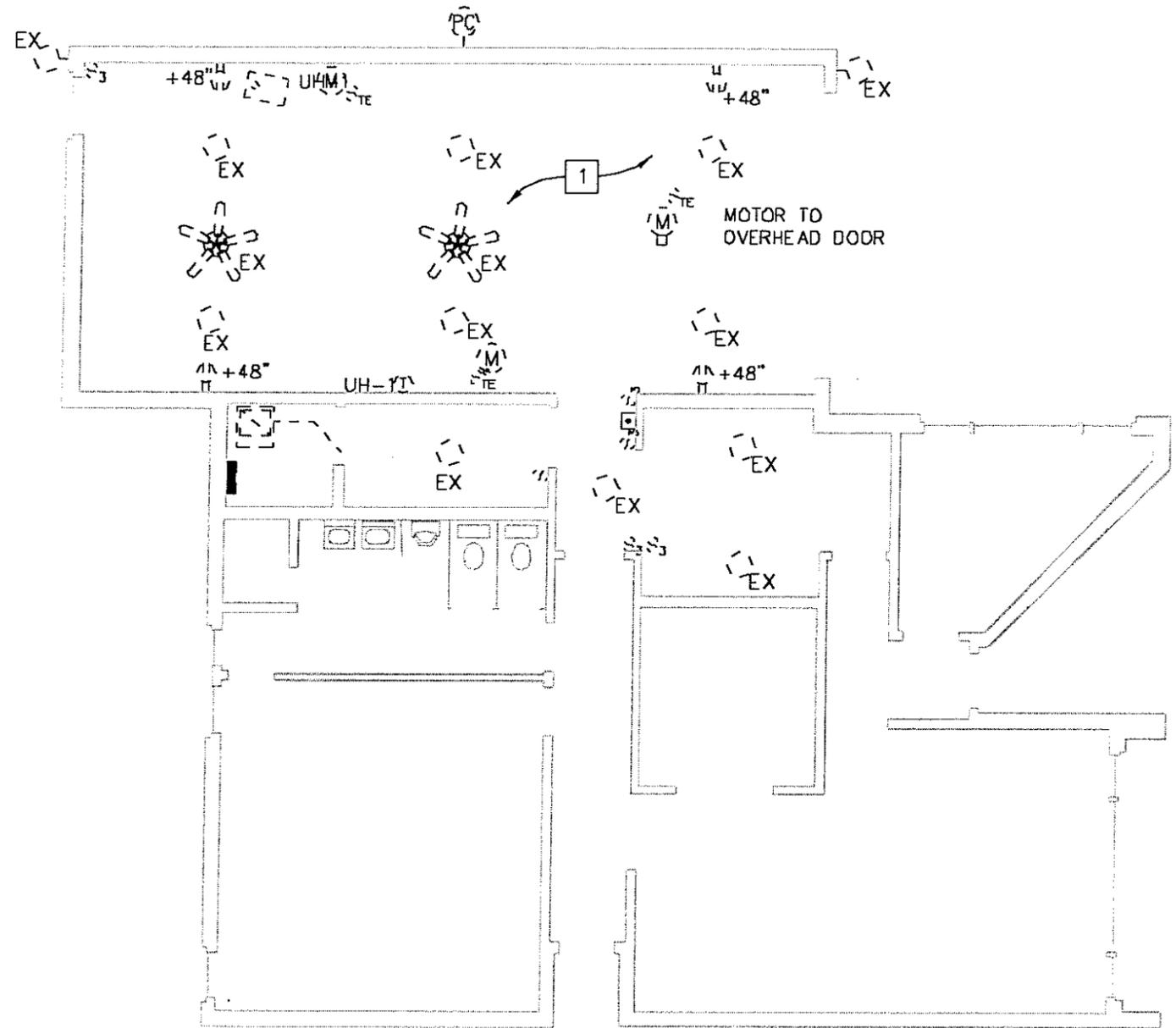
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ELECTRICAL SYMBOLS	MISCELLANEOUS ABBREVIATIONS	ELECTRICAL GENERAL NOTES:												
<p>POWER</p>  UTILITY METER (AS REQUIRED BY UTILITY)  GROUND CONNECTION  PANELBOARD, ELECTRICAL DISTRIBUTION PANEL, SURFACE MOUNTED  SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD  MOTOR: HORSEPOWER AS INDICATED ON PLANS OR DIAGRAMS  30A/3P SAFETY SWITCH, NON-FUSED, 240V, U.N.O.  COMBINATION STARTER (SIZE AS INDICATED)  FUSED DISCONNECT, RATING/POLES/FUSE/NEMA  SWITCH AND FUSE, BUSSMAN #SSY OR #SSN FOR WEATHER PROOF  20 AMP, 125V, 2P, 3W, DUPLEX RECEPTACLE, 18" AFF, UNLESS OTHERWISE NOTED  GFI 20 AMP, 125V, 2P, 3W, DUPLEX RECEPTACLE, GFI IF NOTED, MOUNTED 6" ABOVE COUNTER AND/OR ABOVE BACKSPASH, UNLESS OTHERWISE NOTED.  20 AMP, 125V, 2P, 3W, DOUBLE DUPLEX RECEPTACLE, COVER PLATE, 18" AFF, UNLESS OTHERWISE NOTED.	<p>AFF ABOVE FINISHED FLOOR C CONDUIT FVNR FULL VOLTAGE, NON REVERSING GFI GROUND FAULT CIRCUIT INTERRUPTER GFR GROUND FAULT RELAY GND GROUND KCM 1000 CIRCULAR MILS KV KILOVOLT KVA KILOVOLT AMPS KVAR KILOVOLT AMPS REACTIVE KW KILOWATT KWH KILOWATT HOUR M.C. MECHANICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPACITY MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MD MOTORIZED DAMPER MDP MAIN DISTRIBUTION PANEL MR PER MANUFACTURER'S RECOMMENDATION MSB MAIN SWITCHBOARD MTD MOUNTED N/A NOT APPLICABLE NIC NOT IN CONTRACT N/O,N/C NORMALLY OPEN, NORMALLY CLOSED SHLD SHIELDED SWBD SWITCHBOARD UL UNDERWRITERS LABORATORIES, INC. UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY W/ WITH W/O WITHOUT WP WEATHERPROOF WT WATERTIGHT, WEIGHT XFMR TRANSFORMER</p>	<ol style="list-style-type: none"> EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY, AND NOT LATER THAN SEVEN DAYS PRIOR TO THE DATE OF RECEIPT OF BIDS, SHALL MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITY, INCONSISTENCY, OR ERROR THEREIN WHICH HE MAY DISCOVER. THE ENGINEER WILL ISSUE ANY INTERPRETATION OR CORRECTION AS AN ADDENDUM. ONLY A WRITTEN INTERPRETATION OR CORRECTION BY ADDENDUM SHALL BE BINDING. NO BIDDER SHALL RELY UPON INTERPRETATIONS OR CORRECTIONS GIVEN BY ANY OTHER METHOD. IF DISCREPANCIES, AMBIGUITY, INCONSISTENCY, OR ERROR ARE NOT COVERED BY ADDENDUM OR WRITTEN DIRECTIVE, CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR, MATERIALS AND METHODS OF CONSTRUCTION RESULTING IN HIGHER COST. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE ON BEHALF OF THE CONTRACTOR DUE TO HIS FAILURE TO MAKE THE WRITTEN REQUESTS AS DESCRIBED ABOVE. THE PERSON SUBMITTING THE REQUEST WILL BE RESPONSIBLE FOR ITS PROMPT DELIVERY. FAILURE TO SO REQUEST CLARIFICATION OF ANY INADEQUACY, OMISSION, OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED AS IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE WORKING DRAWINGS AND SPECIFICATIONS. VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS BID COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75°C REVIEW MECHANICAL DRAWINGS PRIOR TO BID. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE CITY PROJECT MANAGER AND ENGINEER. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES. PROVIDE PERMITS AND INSPECTIONS REQUIRED. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER. WIRE SHALL BE COPPER THHN, 90°C RATED FOR GENERAL USE, BUT AMPACITY SHALL BE CALCULATED BASED ON 60°C. PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME, BOUND IN THREE-RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS, CONDUIT, AND CONDUIT FITTINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION, OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS. SYSTEMS SHALL BE INSTALLED AS A COMPLETE AND OPERABLE SYSTEM, READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE. BOXES FOR RECEPTACLES SHALL BE MINIMUM 4" SQUARE. SEE DIVISION 15 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO, AND CONNECT EQUIPMENT AS REQUIRED. CONDUITS PENETRATING THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT. FLASHING MATERIAL SHALL BE COMPATIBLE WITH EXISTING ROOF MEMBRANE. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL TIGHT FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS, OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT. ALL WIRING SHALL BE INSTALLED IN CONTINUOUS RACEWAY. ALL CONDUITS IN EXISTING STUD WALLS, OR IN AREAS WITH SUSPENDED CEILINGS SHALL BE INSTALLED CONCEALED. WIRING FOR DEVICES ON EXISTING MASONRY WALLS OR EXPOSED CEILINGS WHERE RACEWAY CANNOT BE CONCEALED SHALL BE SURFACE MOUNTED CONDUIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, CEILINGS, OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF ELECTRICAL WORK. THIS CONTRACTOR SHOULD BECOME FAMILIAR WITH THE MECHANICAL DRAWINGS AND SPECIFICATIONS SINCE THE WORK IS ENTIRELY PROVIDING CONNECTIONS TO A MECHANICAL SYSTEM. NO EXTRA COMPENSATION WILL BE MADE FOR FAILING TO COORDINATE WITH MECHANICAL CONTRACTOR. 												
<p>CONDUIT & HASH DESIGNATIONS</p>  BRANCH CIRCUITS HOMERUN; NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. NUMBER OF CIRCUITS, USE NUMBER 12 AWC WIRE, UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL CONTAIN A GROUND AND NEUTRAL CONDUCTOR, UNLESS NOTED OTHERWISE.  CONDUIT AND WIRE EMBEDDED IN CONCRETE OR BELOW GRADE  CONDUIT AND WIRE CONCEALED, 1/2" UNLESS OTHERWISE NOTED.  CONDUIT TURNING DOWN  CONDUIT TURNING UP  NEW CONSTRUCTION  EXISTING CONSTRUCTION  DEMOLITION WORK, ALL CROSS HATCHED EQUIPMENT SHALL BE REMOVED	<p>STANDARD MOUNTING HEIGHTS U.N.O.</p> <table border="0"> <tr><td>RECEPTACLES (CENTERLINE)</td><td>18"</td></tr> <tr><td>RECEPTACLES IN EQUIP. RMS.</td><td>48"</td></tr> <tr><td>RECEPTACLES, OUTDOOR (CENTERLINE)</td><td>24"</td></tr> <tr><td>SAFETY SWITCHES</td><td>48"</td></tr> <tr><td>STARTERS</td><td>48"</td></tr> <tr><td>PANELS (TOP)</td><td>72"</td></tr> </table> <p>MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL TAKES PRECEDENCE OVER STANDARD MOUNTING HEIGHT. VERIFY ALL MOUNTING HEIGHTS PRIOR TO ROUGH-IN WITH ARCHITECTURAL DRAWINGS.</p>	RECEPTACLES (CENTERLINE)	18"	RECEPTACLES IN EQUIP. RMS.	48"	RECEPTACLES, OUTDOOR (CENTERLINE)	24"	SAFETY SWITCHES	48"	STARTERS	48"	PANELS (TOP)	72"	
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<p>MISCELLANEOUS</p>  NOTE REFERENCE SYMBOL														

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DEMOLITION NOTES:

1 NO DEMOLITION WORK REQUIRED.

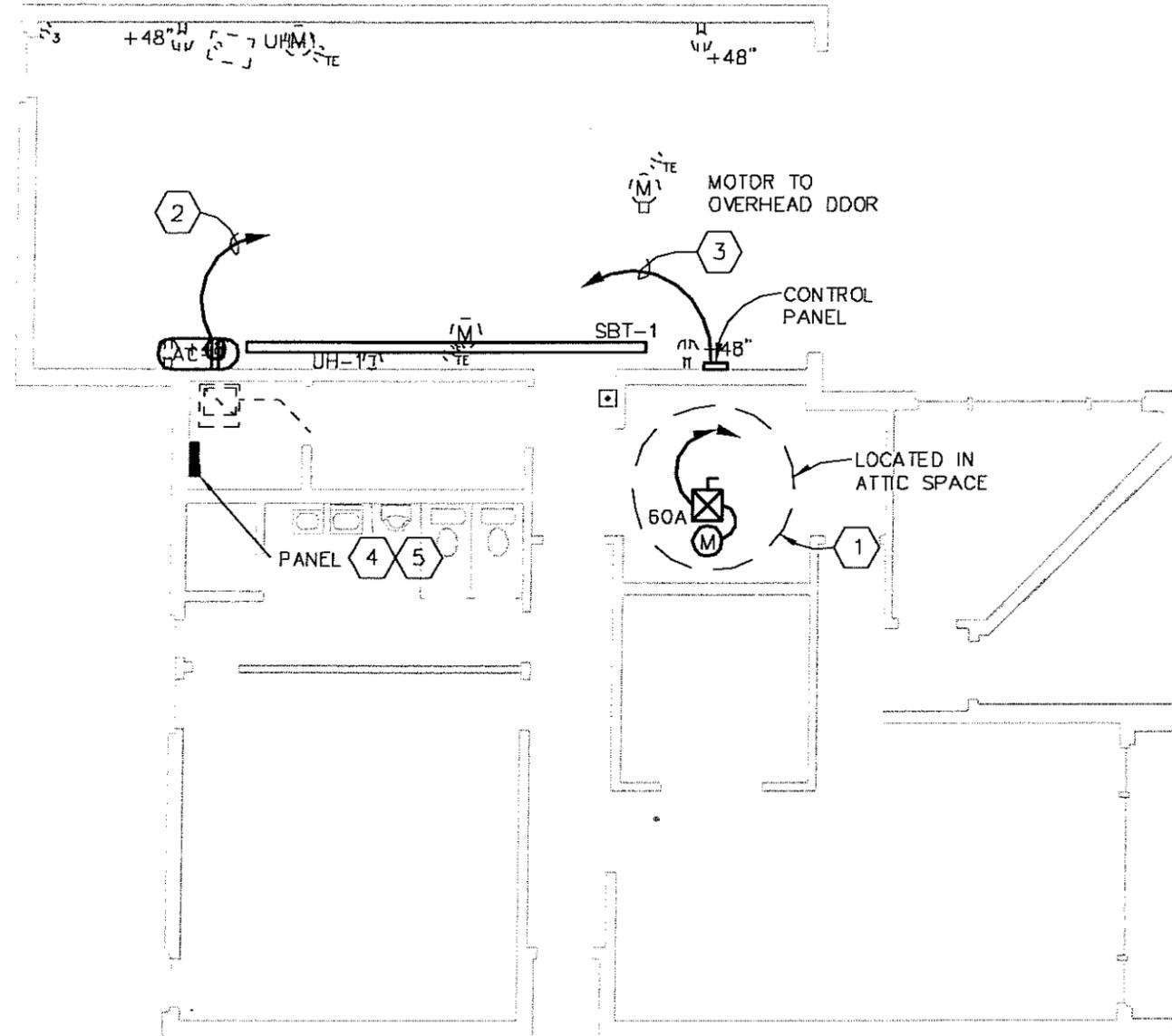


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ELECTRICAL KEYED NOTES:

- ① ROUTE 2#12 & 1#12GRND IN 3/4" C FOR NEW APPARATUS BAY EXHAUST FAN EF-1 WHICH IS LOCATED IN SECOND FLOOR ATTIC TO NEW 20AMP, 2-POLE BREAKER IN EXISTING 200A PANEL LOCATED IN EXISTING MECHANICAL/ELECTRICAL ROOM, MATCH EXISTING AIC RATING. MOUNT MOTOR STARTER ON WALL NEAR EXHAUST FAN.
- ② ROUTE 2#12 & 1#12GRND IN 3/4" C TO NEW 20AMP, 1-POLE BREAKER IN EXISTING 200A PANEL LOCATED IN MECHANICAL/ELECTRICAL ROOM FOR NEW WALL MOUNTED RECEPTACLE SERVING NEW 2 HP AIR COMPRESSOR, COORDINATE MOUNTING HEIGHT OF RECEPTACLE WITH MECHANICAL AND EXISTING CONDITIONS.
- ③ ROUTE 2#12 & 1#12GRND IN 3/4" C TO NEW 20AMP, 1-POLE BREAKER IN EXISTING PANEL FOR NEW EXHAUST SYSTEM CONTROL PANEL. CONTROL WIRING BY MECHANICAL CONTRACTOR.
- ④ EXISTING 200AMP, 120/240V, 1Ø PANEL.
- ⑤ ELECTRICAL CONTRACTOR TO METER EXISTING PANEL FOR EXISTING LOAD TO VERIFY CAPACITY FOR ADDED LOAD.



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