

MECHANICAL ABBREVIATIONS

AC	AIR CONDITIONING UNIT	LD	LINEAR DIFFUSER
AD	ACCESS DOOR	LR	LINEAR RETURN
AFF	ABOVE FINISHED FLOOR	MBH	1000 BTU PER HOUR
AHU	AIR HANDLING UNIT	MD	MOTORIZED DAMPER
BDD	BACKDRAFT DAMPER	MECH	MECHANICAL
BOD	BOTTOM OF DUCT	MTD	MOUNTED
BOP	BOTTOM OF PIPE	(N)	NEW
BOS	BOTTOM OF STRUCTURE	NIC	NOT IN CONTRACT
CD	CEILING DIFFUSER	OC	ON CENTER
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER
CP	CONDENSATE PUMP	PD	PRESSURE DROP
CPD	CONDENSATE PUMP DRAIN	PSI	POUNDS PER SQUARE INCH
CU	CONDENSING UNIT	RA	RETURN AIR
D	DRAIN	RG	RETURN GRILLE
DB	DRY BULB	(R), (RL)	RELOCATED
DN	DOWN	SA	SUPPLY AIR
DX	DIRECT EXPANSION	SD	SMOKE DAMPER (BOX), SMOKE DETECTOR (CIRCLE)
EAT	ENTERING AIR TEMPERATURE	SP	STATIC PRESSURE
EF	EXHAUST FAN	SF, SQFT	SQUARE FEET
EG	EXHAUST GRILLE	SYS	SYSTEM
(ER)	EXISTING TO BE RELOCATED		THERMOSTAT (CIRCLE), TEMPERATURE SENSOR (BOX)
ESP	EXTERNAL STATIC PRESSURE		TRANSFER GRILLE
(E), (EX)	EXISTING	TG	TOP OF STEEL
FA	FREE AREA	TOS	TOP OF STEEL
FC	FLEXIBLE CONNECTION	TSP	TOTAL STATIC PRESSURE
FLR	FLOOR	Typ	TYPICAL
FPM	FEET PER MINUTE	VD	VOLUME DAMPER
FT	FOOT/FEET	WB	WET BULB
ID	INSIDE DIAMETER	WMS	WIRE MESH SCREEN
LAT	LEAVING AIR TEMPERATURE		

MECHANICAL SYMBOLS

	NEW DUCT. FIRST NUMBER IS PLAN VIEW DIMENSION. DIMENSIONS ARE CLEAR INSIDE.
	EXISTING DUCT. FIRST NUMBER IS PLAN VIEW DIMENSION. DIMENSIONS ARE CLEAR INSIDE.
	DUCT TRANSITION
	RECTANGULAR SHOE TAP FITTING TO RIGID BRANCH DUCT
	RECTANGULAR SHOE TAP FITTING TO FLEX DUCT
	FLEXIBLE DUCT CONNECTION
	VERTICAL SUPPLY AIR DUCT
	RADIUS ELBOW DUCT FITTING WITH RADIUS THROAT
	RECTANGULAR ELBOW DUCT FITTING WITH TURNING VANES
	CEILING SUPPLY AIR DIFFUSER, NEW AND EXISTING. TAG INDICATES DEVICE TYPE AND CFM VALUE
	SIDEWALL SUPPLY AIR GRILLE, NEW AND EXISTING. TAG INDICATES DEVICE TYPE AND CFM VALUE
	RETURN OR TRANSFER AIR GRILLE, NEW AND EXISTING.
	EXHAUST AIR GRILLE, NEW AND EXISTING.
	MANUAL VOLUME DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	THERMOSTAT
	EQUIPMENT SWITCH
	AIRFLOW DIRECTION ARROW
	SMOKE DETECTOR
	NEW EQUIPMENT TAG INDICATING EQUIPMENT TYPE AND NUMBER DESIGNATION
	EXISTING EQUIPMENT TAG INDICATING EQUIPMENT TYPE AND NUMBER DESIGNATION
	ACCESS DOOR/PANEL
	KEYED PLAN NOTE
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	REFRIGERANT OR CONDENSATE DRAIN PIPING
	PIPING ELBOW DOWN
	PIPING TEE, TOP CONNECTION

MECHANICAL NOTES AND SPECIFICATIONS

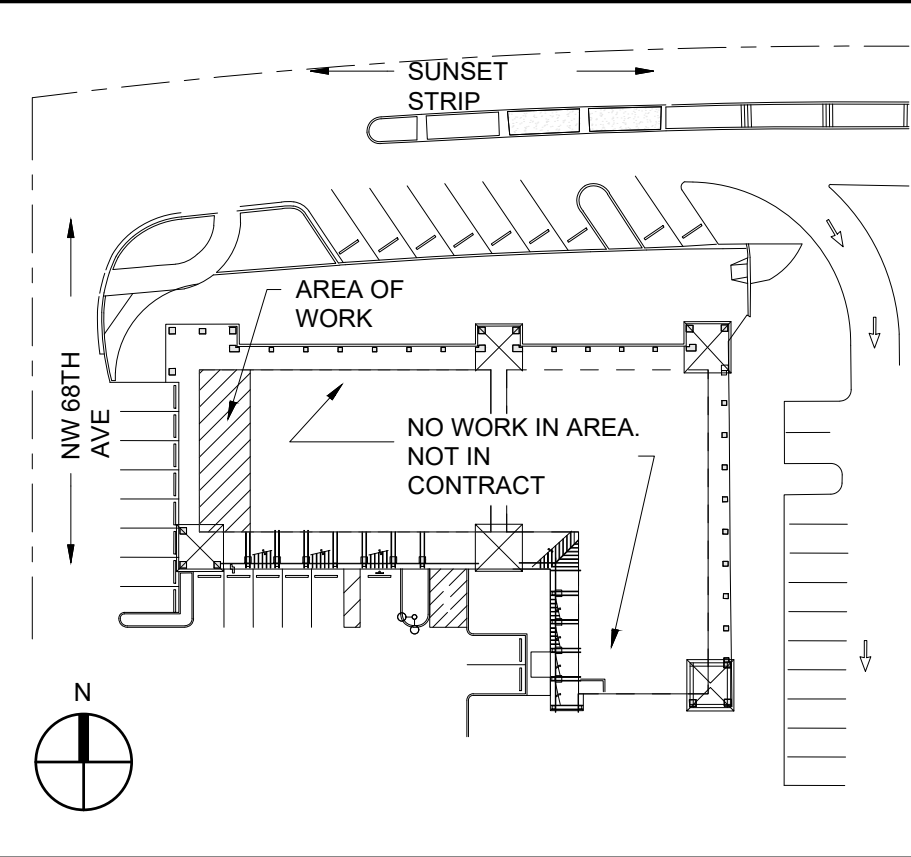
1. MECHANICAL SCOPE OF WORK: PROVIDE NEW AIR CONDITIONING, VENTILATION, AND DUCTWORK DISTRIBUTION TO SERVE RENOVATION FOR NEW RETAIL SHOP.	13. SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUCT IS ONLY TO ESTABLISH TYPE, QUALITY, AND PERFORMANCE REQUIRED. THESE QUALIFICATIONS ARE IN ADDITION TO THE REQUIREMENTS SHOWN ON THE PLANS.	AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.
2. ALL WORK SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF FOLLOWING CODES AND STANDARDS: 2023 FLORIDA BUILDING CODE - BUILDING 2023 FLORIDA BUILDING CODE - MECHANICAL 2023 FLORIDA BUILDING CODE - ENERGY CONSERVATION - NFPA 70 - 2020	14. ALL MATERIALS OF INSULATION SHALL BE OF THE TYPE AND QUALITY AS MANUFACTURED BY OWENS CORNING OR JOHNS MANVILLE. ALL MATERIAL AND EQUIPMENT SPECIFIED TO BE INSULATED SHALL BE THOROUGHLY TESTED AND APPROVED PRIOR TO APPLYING THE INSULATION. THE INSTALLATION OF ALL INSULATION SHALL BE PERFORMED BY AN EXPERIENCED CRAFTSMAN IN A NEAT WORKMANSHIP-LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR SERVICE INTENDED.	34. PROVIDE AND INSTALL SMOKE DAMPERS IN DUCTS PASSING THROUGH SMOKE RATED ASSEMBLIES.
3. ALL HVAC MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE AND LOCAL ORDINANCES WHICH MAY BE IN EFFECT. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THESE RULES, REGULATIONS, AND ORDINANCES AT NO ADDITIONAL COST. THESE CODES REPRESENT THE MINIMUM ACCEPTABLE REQUIREMENTS, THEREFORE, WHERE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF THESE CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN.	15. UNLESS OTHERWISE NOTED, INSTALL DUCTWORK AND PIPING OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH ADEQUATE SPACE FOR INSULATION.	35. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING, ADJUSTING, AND BALANCING. BALANCING SCOPE SHALL INCLUDE THE ENTIRE AIR-SIDE SYSTEM AND BE PERFORMED IN ACCORDANCE WITH NEBB OR AABC REQUIREMENTS. TOLERANCES FOR AIR INLETS AND OUTLETS SHALL BE +/- 10% UNLESS NOTED OTHERWISE.
4. THESE DRAWINGS ARE DIAGRAMMATIC AND INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED. ACCESSORIES REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, EVEN THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTALLED. SUCH ACCESSORIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVICE VALVES, THERMOSTATS, RELAYS, VIBRATION ISOLATORS, MOTOR STARTERS, ETC.	16. COORDINATE LOCATION OF NEW DUCTWORK, AIR DEVICES, AND EQUIPMENT WITH LIGHT FIXTURES, SPRINKLER PIPING, HYDRONIC PIPING, CONDUIT, FIRE ALARM DEVICES, AND OTHER UTILITIES.	36. CONTRACTOR SHALL PROVIDE ALL AIR TEMPERATURE CONTROLS INCLUDING 120V POWER WIRING, LOW VOLTAGE WIRING, TRANSFORMERS, RELAYS, TUBING, THERMOSTATS, AND ALL MISCELLANEOUS APURTENANCES TO MEET THE INTENT OF THESE DOCUMENTS. ALL NEW CONTROLS SHALL BE COMPATIBLE WITH THE EXISTING BASE BUILDING MANAGEMENT SYSTEM.
5. ALL REQUIRED OFFSETS, RISES, AND DROPS DUE TO POSSIBLE OBSTRUCTIONS OF DUCT AND PIPE RUNS ARE NOT NECESSARILY SHOWN. CONTRACTOR SHALL INCLUDE A CONTINGENCY IN HIS BID TO OFFSET ANY COST REQUIRED FOR ADDITIONAL FITTINGS AND LABOR THAT MAY BE REQUIRED. MINOR DEVIATIONS FROM THE DESIGN LAYOUT IN ROUTING OF DUCT AND/OR PIPING ARE ANTICIPATED AND SHALL BE CONSIDERED A PART OF THE WORK INCLUDED. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.	17. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.	37. ALL WALL-MOUNTED CONTROL DEVICES SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY. ALL DEVICES INDICATED TO BE INSTALLED IN THE SAME LOCATIONS WITH DIFFERENT ELEVATIONS SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF SWITCHES, OUTLETS, FIRE ALARM STROBES, AUDIBLE AND VISUAL DEVICES, FIRE ALARM PULL STATION, CLOCKS, SECURITY DEVICES, CARD READERS, THERMOSTATS, SENSORS, ETC. COORDINATE FINAL LOCATIONS WITH EQUIPMENT, FURNITURE, TENANT AND ARCHITECT PRIOR TO INSTALLATION.
6. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS ANY RELATED PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR, AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IT IS CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE LATEST VERSION OF THESE DRAWINGS FROM THE GENERAL CONTRACTOR, CONSTRUCTION MANAGER, AND/OR OWNER. IN ADDITION, THE MECHANICAL CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION. SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.	18. COORDINATE LOCATION OF ALL WALL, FLOOR, AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.	38. INSTALL NON-ADJUSTABLE TEMPERATURE SENSORS 5'-5" ABOVE FINISHED FLOOR. INSTALL ALL ADJUSTABLE DEVICES SUCH AS OVERRIDE BUTTONS, SWITCHES AND THERMOSTATS 4'-0" ABOVE FINISHED FLOOR PER ADA REQUIREMENTS.
7. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE DOCUMENTS OR BETWEEN THESE DOCUMENTS AND PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, ARCHITECTURAL, INTERIOR DECOR, AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT, AND ENGINEER PRIOR TO BID SUBMISSION.	19. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION.	39. CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC AND ELECTRICAL SPECIFICATIONS.
8. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS. NO EQUIPMENT SUBSTITUTIONS SHALL BE MADE THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICE SPACE. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER. MATERIALS AND EQUIPMENT SHALL BE INSTALLED SQUARELY WITH THE BUILDING LINES.	20. FABRICATE, SUPPORT, TEST, AND INSTALL ALL DUCTWORK IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE AND ALL APPLICABLE BUILDING CODES.	40. PROVIDE VIBRATION ISOLATION FOR ROTATING, REVOLVING OR RECIPROCATING EQUIPMENT, INCLUDING PIPING AND DUCTWORK CONNECTIONS TO THIS EQUIPMENT TO PREVENT TRANSMISSION OF NOISE AND VIBRATION TO BUILDING STRUCTURE AND OCCUPIED SPACES. VIBRATION ISOLATION DEVICES SHALL INCLUDE SPRING VIBRATION ISOLATORS, NEOPRENE PADDING, AND DUCT/PIPE FLEXIBLE CONNECTIONS.
9. ALL EXISTING BUILDING COMPONENTS, EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL, AND APPURTENANCES IN THE AREA OF WORK SHALL BE PROTECTED FROM DAMAGE DURING ALL CONSTRUCTION ACTIVITIES.	21. CONTRACTOR SHALL INSPECT ANY EXISTING DUCTWORK FOR DEFECTS AND REPORT TO THE ARCHITECT/ENGINEER AND THE OWNER ANY DEFICIENCIES PRIOR TO PERFORMING ANY WORK. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK, GRILLES, REGISTERS, AND DIFFUSERS PRIOR TO INSTALLING THE NEW WORK.	41. WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, PROVIDE FIRE-RATED SLEEVES. THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOW DOWSIL 3-6548 SILICONE RTV FOAM, OR APPROVED EQUAL. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR.
10. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL LOCATIONS AND DIMENSIONS OF ALL EQUIPMENT, CASEWORK, DEVICES, FIXTURES, SWITCHES, SENSORS, ETC. IN THE FIELD AND PRIOR TO PERFORMING ANY ROUGH-IN WORK FOR THE UTILITIES, DUCTWORK, OR PIPING. CONTRACTOR SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.	22. EXPOSED DUCTWORK SHALL BE CONSTRUCTED OF DOUBLE-WALL SPIRAL ROUND DUCTWORK CONSTRUCTED OF SHEETMETAL (MINIMUM 26 GAUGE) WITH INTERNAL 1" THICK 2.0 PCF DENSITY BATT INSULATION EQUIVALENT TO R-4.2.	42. CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION WITH THE OWNER AND PROPERTY MANAGER.
11. CONSTRUCT AND SUPPORT ALL EQUIPMENT, PIPING, AND DUCTWORK FROM BUILDING STRUCTURE TO PROVIDE A VIBRATION FREE INSTALLATION.	23. WRAPPED INSULATION ON DUCTWORK SHALL BE MINIMUM R-4.2 GLASS FIBER FLEXIBLE DUCT INSULATION, ONE POUND DENSITY WITH UL APPROVED FOIL SCRIM KRAFT FSK JACKET COMPLYING WITH FIRE CLASSIFICATION REQUIREMENTS OF NFPA 90A AND 90B. SECURE WITH ADHESIVE APPLIED DIRECTLY TO THE DUCT IN 4" WIDE STRIPS AROUND THE DUCT ON 12" CENTERS AND TAPE ALL JOINTS.	43. EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM DUST, DIRT, AND DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE ALL DUCT AND EQUIPMENT OPENINGS DURING CONSTRUCTION WITH SUITABLE PROTECTIVE COVERING BEFORE, DURING, AND FOLLOWING INSTALLATION.
12. PROVIDE ALL AUXILIARY STEEL, THREADED RODS, VIBRATION ISOLATORS, TURNBUCKLES, ETC. TO SUPPORT EQUIPMENT ON OR FROM BUILDING STRUCTURE.	24. UNLESS NOTED OTHERWISE, CONCEALED RIGID DUCTWORK MAY BE CONSTRUCTED OF SHEETMETAL (MINIMUM 26 GAUGE) WITH EXTERNAL R-4.2 INSULATION OR FACTORY-MANUFACTURED R-4.2 INSULATED DUCTWORK (DUCTBOARD). COORDINATE WITH OWNER FOR MATERIAL CHOICE.	44. RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
	25. FLEXIBLE DUCT LENGTH SHALL BE A MINIMUM OF 36". FLEXIBLE DUCTWORK SHALL BE INSTALLED WITHOUT KINKS OR 90 DEGREE BENDS. FLEXIBLE DUCTS SHALL NOT PASS THROUGH ANY WALL, FLOOR, OR CEILING.	45. REMOVE ALL TRASH, DEBRIS, AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
	26. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS WHETHER SHOWN OR NOT.	46. PROVIDE ACCESS PANELS THROUGH INACCESSIBLE CEILINGS FOR SERVICE AND MAINTENANCE OF ALL CONCEALED EQUIPMENT AND DEVICES, SUCH AS TERMINAL UNITS, DUCT HEATERS, COILS, SMOKE DETECTORS, BALANCING DAMPERS, AND FIRE DAMPERS.
	27. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH SMACNA STANDARDS AND ACCEPTED GOOD PRACTICE.	47. CONTRACTOR SHALL PROVIDE MAINTENANCE INSTRUCTIONS FOR EQUIPMENT AND SYSTEMS THAT REQUIRE PREVENTATIVE MAINTENANCE. INSTRUCTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL AND INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.
	28. PROVIDE TRANSFER DUCTS FOR ALL ROOMS WITH FULL HEIGHT PARTITIONS WHETHER INDICATED OR NOT.	48. REFER TO ADDITIONAL SPECIFICATIONS ON DRAWINGS, DETAILS, AND EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
	29. ALL OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY PLUMBING VENT, EXHAUST, AND FLUE OUTLETS.	
	30. EXHAUST DUCTS SHALL TERMINATE A MINIMUM OF 3'-0" FROM ANY BUILDING OPENING, PROTECTED WITH CORROSION-RESISTANT SCREEN HAVING AN OPENING SIZE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1/2", AND EQUIPPED WITH A BACKDRAFT DAMPER. FOR DRYER EXHAUST, SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION.	
	31. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY	

MECHANICAL SHEET INDEX

M0	MECHANICAL NOTES, SPECIFICATIONS, AND LEGENDS
M1	MECHANICAL PROPOSED PLAN
M2	MECHANICAL PROPOSED ROOF PLAN
M3	MECHANICAL DETAILS

INTERIOR MODIFICATIONS (UNIT 11)
AT LIBRARY SQUARE

6780 SUNSET STRIP
SUNRISE, FL 33313



KEY PLAN

MECHANICAL NOTES,
SPECIFICATIONS, AND
LEGENDS

100% CONSTRUCTION DOCUMENTS

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SHEET No.

M0

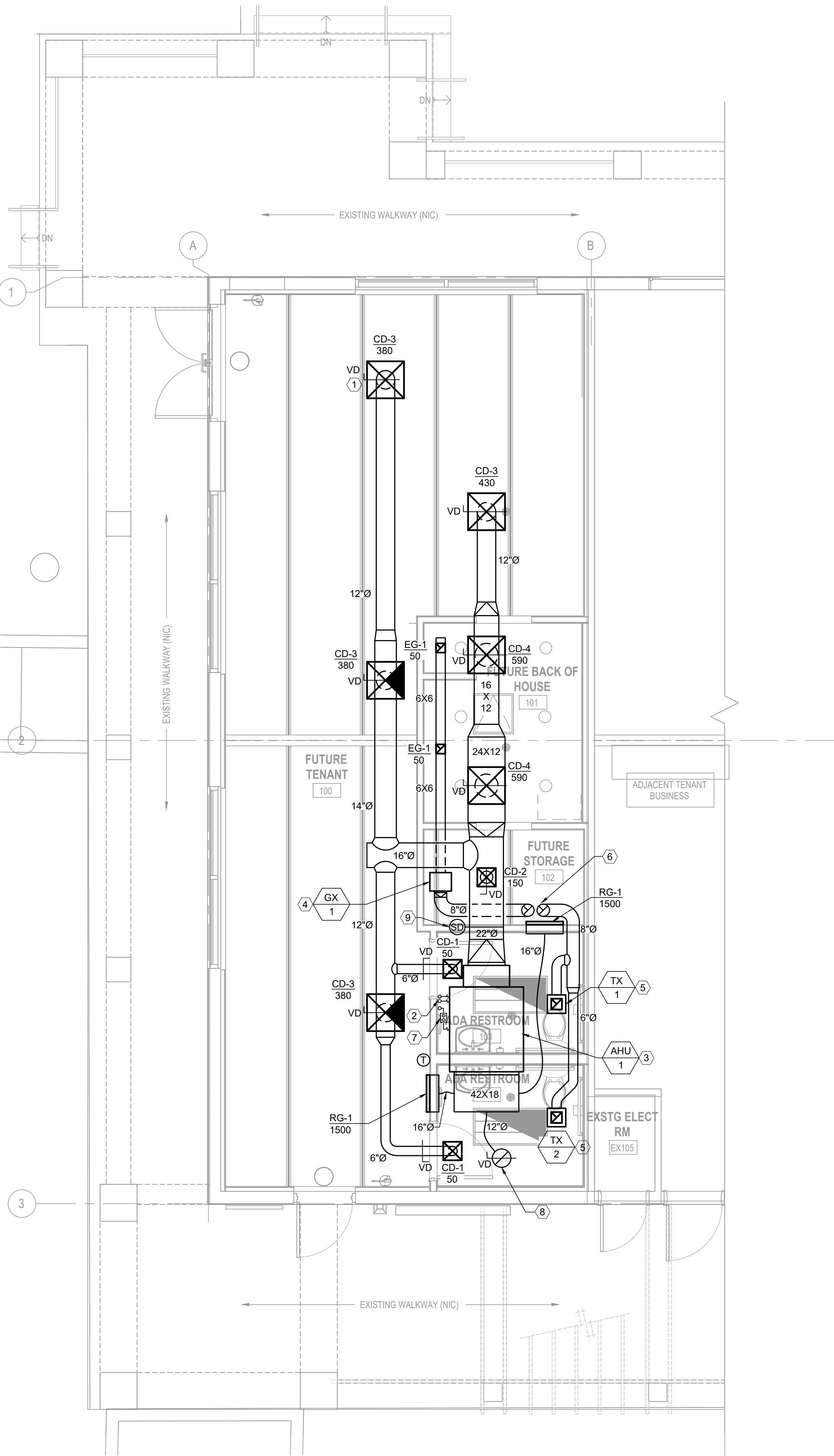
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Project No. :
SMA: 2024-116
City:
Drawn By :
KL
Checked By :
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Date:
03.06.2026



1 M1 MECHANICAL PROPOSED PLAN

SCALE: 1/4"=1'-0"

AIR-COOLED SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

AIR HANDLING UNIT DATA																CONDENSING UNIT DATA												EER	IEER	REMARKS
TAG	AREA SERVED	MAKE	MODEL	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	ELECTRIC HEATING CAPACITY (KW)	SUPPLY AIRFLOW (CFM)	OA AIRFLOW (CFM)	ESP (IN. W.C.)	FAN HP	FAN FLA	MCA	MOP	VOLTAGE	WEIGHT (LBS)	TAG	MAKE	MODEL	COND FAN FLA	COMP RLA	MCA	MOP	VOLTAGE	WEIGHT (LBS)						
AHU-1	UNIT 11	TRANE	TWE090K3AAA**BC	94.1	72.7	18	3000	465	0.5	2	6.8	74.0	80	208/3/60	373	CU-1	TRANE	TTA090K3A*A**BS	2.3	27.1	38.0	60	208/3/60	363	11.5	14.8	1, 2, 3, 4, 5, 6, 7, 8, 9			
REMARKS: 1. PROVIDE WITH FACTORY CONTROLS. 2. PROVIDE WITH MANUFACTURER'S HARD-WIRED WALL MOUNTED THERMOSTAT. 3. PROVIDE WITH 2 SPEED AIRFLOW. 4. ALL CONDENSATE DRAINS SHALL BE FULL SIZE OF THE DRAIN CONNECTION OR 3/4" DIAMETER, WHICHEVER IS LARGER. 5. SEE DETAILS FOR ANCHORING REQUIREMENTS FOR SUSPENDED AIR HANDLING UNITS AND ROOF MOUNTED CONDENSING UNITS. 6. PROVIDE ANTI-CORROSION COIL COATING FOR CONDENSING UNITS. 7. PROVIDE UNIT MOUNTED DISCONNECTS FOR AHU AND CU. 8. PROVIDE WITH 5 YEAR WARRANTY ON PARTS AND LABOR. 9. BALANCE SUPPLY AIRFLOWS AND OUTDOOR AIR QUANTITIES AT EACH AHU PER THIS SCHEDULE.																														

EXHAUST FAN SCHEDULE

TAG	AREA SERVED	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	ESP (IN. W.C.)	DRIVE	HP	FLA	VOLTAGE	WEIGHT (LBS)	INTERLOCK	REMARKS
TX-1	RR 103	GREENHECK	SP-B90	CEILING MOUNTED	70	0.5	DIRECT	-	0.2	115/1/60	10	LIGHT SWITCH	1, 2, 3
TX-2	RR 104	GREENHECK	SP-B90	CEILING MOUNTED	70	0.5	DIRECT	-	0.2	115/1/60	10	LIGHT SWITCH	1, 2, 3
GX-1	BACK OF HOUSE	GREENHECK	CSP-A200	INLINE	100	0.5	DIRECT	-	0.5	115/1/60	23	AHU-1	2, 3, 4
REMARKS: 1. INTERLOCK OPERATION WITH RESTROOM LIGHT SWITCH. 2. COORDINATE FINAL LOCATION WITH LIGHT FIXTURES. 3. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER. 4. INTERLOCK OPERATION WITH AIR HANDLING UNIT AHU-1.													

VENTILATION INDEX

UNIT	ROOM NAME	OCCUPANCY CLASSIFICATION	FLOOR AREA (SF)	OCCUPANT DENSITY (#/1000 SF)	OCCUPANTS	OA CFM/PERSON REQUIRED	OA CFM/SF REQUIRED	TOTAL OA REQUIRED	OA CFM PROVIDED
AHU-1	BACK OF HOUSE	PREP	91	20	1.8	7.5	0.12	24.6	25
	FRONT OF HOUSE	SALES	112	15	1.7	7.5	0.12	26.0	30
	FUTURE TENANT	INDOOR SEATING	575	70	40.3	7.5	0.18	405.4	410
	AHU-1 TOTAL	-	-	-	-	-	-	431	465*

NOTES:
1. VENTILATION CALCULATIONS FOR OCCUPIED SPACES BASED ON FBCM TABLE 403.3.1.1.
2. AN ASTERIX (*) INDICATES AIR QUANTITY INCLUDES MAKEUP AIR PROVIDED FOR EXHAUST AND PRESSURIZATION.

DIFFUSER AND GRILLE SCHEDULE

TAG	MAKE	MODEL	OVERALL SIZE	NECK SIZE	FINISH	MATERIAL	MOUNTING	REMARKS
CD-1	METALAIRE	CDP	12"X12"	6"	WHITE	ALUMINUM	CEILING	1, 2, 3, 4
CD-2	METALAIRE	CDP	12"X12"	8"	WHITE	ALUMINUM	DUCT	1, 2, 3, 4
CD-3	METALAIRE	CDP	24"X24"	12"	WHITE	ALUMINUM	DUCT	1, 2, 3, 4
CD-4	METALAIRE	CDP	24"X24"	15"	WHITE	ALUMINUM	CEILING	1, 2, 3, 4
EG-1	METALAIRE	RG	6"X6"	6"X6"	WHITE	ALUMINUM	CEILING	1, 2, 3, 4
RG-1	METALAIRE	RG	24"X18"	24"X18"	WHITE	ALUMINUM	SURFACE	1, 2

REMARKS:
1. COORDINATE ALL COLOR CHOICES WITH OWNER PRIOR TO ORDER OR MOUNTING.
2. CONFIRM ALL MOUNTING TYPES PRIOR TO ORDER.
3. THROW PATTERNS AS INDICATED BY ARROWS ON FLOOR PLANS.
4. PROVIDE WITH MANUFACTURER'S INTEGRAL VOLUME DAMPER.

GENERAL NOTES:

- ALL EXISTING BUILDING COMPONENTS, EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL, CONTROLS, AND APPURTENANCES IN THE AREA OF WORK SHALL BE PROTECTED FROM DAMAGE DURING ALL CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START.
- COORDINATE ALL MECHANICAL WORK FOR POTENTIAL CONFLICTS WITH OTHER TRADES.
- ALL EXPOSED DUCTWORK SHALL BE DOUBLE-WALL SPIRAL ROUND DUCTWORK CONSTRUCTED OF SHEETMETAL (MINIMUM 26 GAUGE) WITH INTERNAL 1" THICK 2.0 PCF DENSITY BATT INSULATION EQUIVALENT TO R-4.2.

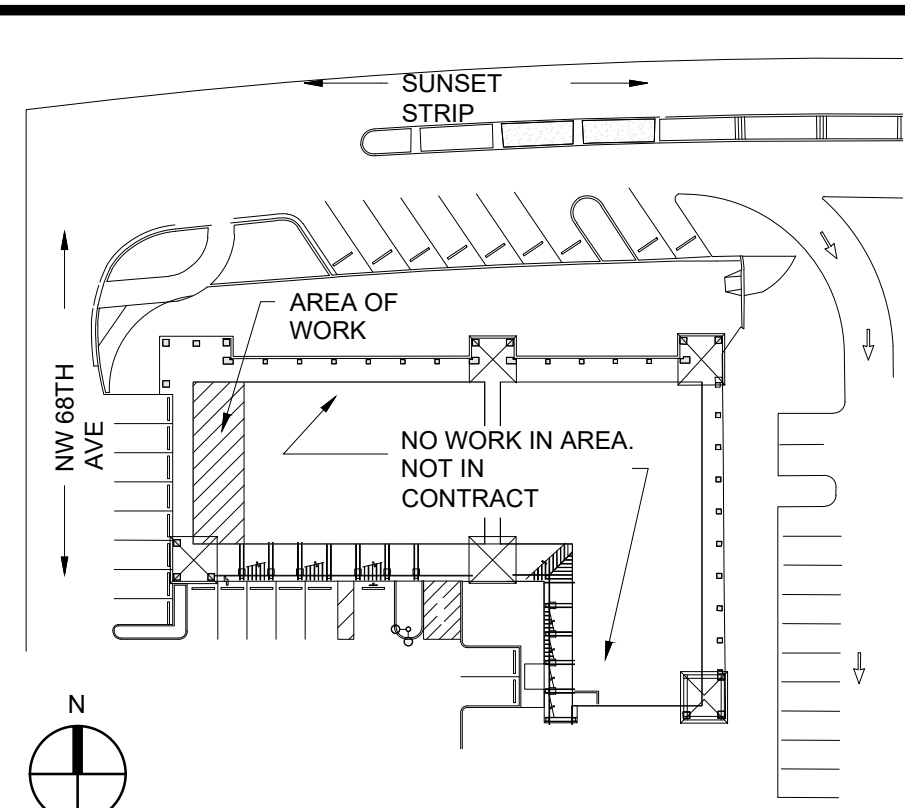
KEY NOTES:

- PROVIDE MANUAL VOLUME ADJUSTMENT DAMPER FOR ALL SUPPLY DIFFUSER AND EXHAUST GRILLES.
- 1-3/8" SUCTION AND 1/2" LIQUID REFRIGERANT LINE SET AND 3/4" CONDENSATE PUMP DISCHARGE UP TO ROOF. COORDINATE EXACT SIZES BASED ON FIELD ROUTING AND MANUFACTURER'S INSTRUCTIONS.
- AIR HANDLING UNIT SUSPENDED ABOVE CEILING AND SUPPORTED FROM STRUCTURE. REFER TO AHU MOUNTING DETAIL FOR ADDITIONAL INFORMATION.
- INLINE EXHAUST FAN SUSPENDED FROM STRUCTURE. REFER TO INLINE FAN MOUNTING DETAIL FOR ADDITIONAL INFORMATION.
- CEILING MOUNTED EXHAUST FAN. REFER TO CEILING EXHAUST FAN DETAIL FOR ADDITIONAL INFORMATION.
- 8" EXHAUST DUCTS FROM EXHAUST FANS BELOW TERMINATE ABOVE ROOF WITH PRE-MANUFACTURED ROOF CAP WITH DUCT COLLAR, SCREEN, AND BACKDRAFT DAMPER, MODEL GRV8CD AS MANUFACTURED BY MIAMI TECH INC OR EQUIVALENT.
- PROVIDE NEW CONDENSATE PUMP FOR AHU-1, MODEL VCCA-20-P, AS MANUFACTURED BY LITTLE GIANT OR EQUIVALENT. PUMP SHALL OVERFLOW SWITCH, CHECK VALVE, AND HARD-WIRED ELECTRICAL CONNECTION. OVERFLOW SWITCH SHALL BE WIRED TO SHUT DOWN AHU-1.
- 12" OUTSIDE AIR DUCT WITH VOLUME DAMPER UP TO GRAVITY INTAKE HOOD AT ROOF.
- NEW DUCT-MOUNTED SMOKE DETECTOR WITH AUDIBLE & VISIBLE SIGNAL. UPON ACTIVATION OF THE SMOKE DETECTOR, AHU-1 SHALL SHUTDOWN.



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SEAL



KEY PLAN

MECHANICAL PROPOSED PLAN

100% CONSTRUCTION DOCUMENTS

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SHEET No.

M1



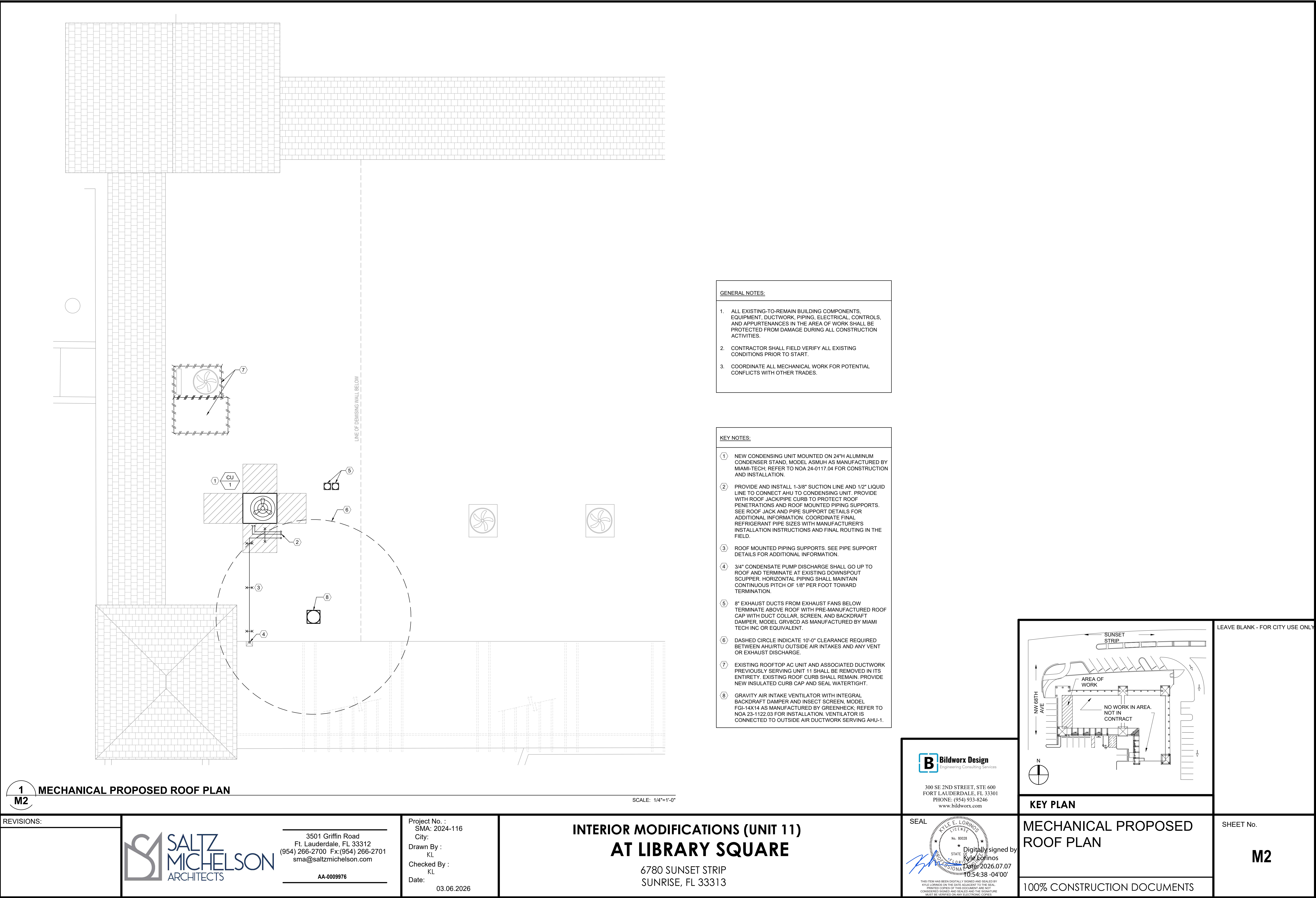
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AA-0009976

Project No. :
SMA: 2024-116
City:
Drawn By :
KL
Checked By :
KL
Date:
03.06.2026

INTERIOR MODIFICATIONS (UNIT 11) AT LIBRARY SQUARE

6780 SUNSET STRIP
SUNRISE, FL 33313



GENERAL NOTES:

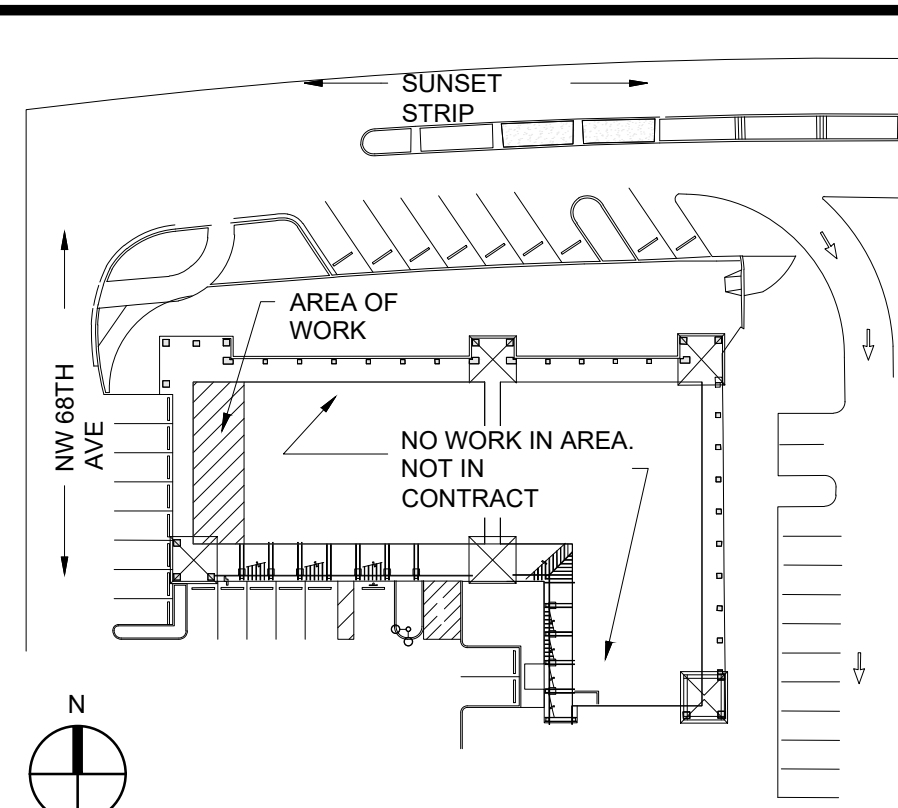
1. ALL EXISTING-TO-REMAIN BUILDING COMPONENTS, EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL, CONTROLS, AND APPURTENANCES IN THE AREA OF WORK SHALL BE PROTECTED FROM DAMAGE DURING ALL CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START.
3. COORDINATE ALL MECHANICAL WORK FOR POTENTIAL CONFLICTS WITH OTHER TRADES.

KEY NOTES:

1. NEW CONDENSING UNIT MOUNTED ON 24"H ALUMINUM CONDENSER STAND, MODEL ASMUH AS MANUFACTURED BY MIAMI-TECH; REFER TO NOA 24-0117.04 FOR CONSTRUCTION AND INSTALLATION.
2. PROVIDE AND INSTALL 1-3/8" SUCTION LINE AND 1/2" LIQUID LINE TO CONNECT AHU TO CONDENSING UNIT. PROVIDE WITH ROOF JACK/PIPE CURB TO PROTECT ROOF PENETRATIONS AND ROOF MOUNTED PIPING SUPPORTS. SEE ROOF JACK AND PIPE SUPPORT DETAILS FOR ADDITIONAL INFORMATION. COORDINATE FINAL REFRIGERANT PIPE SIZES WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND FINAL ROUTING IN THE FIELD.
3. ROOF MOUNTED PIPING SUPPORTS. SEE PIPE SUPPORT DETAILS FOR ADDITIONAL INFORMATION.
4. 3/4" CONDENSATE PUMP DISCHARGE SHALL GO UP TO ROOF AND TERMINATE AT EXISTING DOWNSPOUT SCUPPER. HORIZONTAL PIPING SHALL MAINTAIN CONTINUOUS PITCH OF 1/8" PER FOOT TOWARD TERMINATION.
5. 8" EX-HAUST DUCTS FROM EXHAUST FANS BELOW TERMINATE ABOVE ROOF WITH PRE-MANUFACTURED ROOF CAP WITH DUCT COLLAR, SCREEN, AND BACKDRAFT DAMPER, MODEL GRV8CD AS MANUFACTURED BY MIAMI TECH INC OR EQUIVALENT.
6. DASHED CIRCLE INDICATE 10'-0" CLEARANCE REQUIRED BETWEEN AHU/RTU OUTSIDE AIR INTAKES AND ANY VENT OR EXHAUST DISCHARGE.
7. EXISTING ROOFTOP AC UNIT AND ASSOCIATED DUCTWORK PREVIOUSLY SERVING UNIT 11 SHALL BE REMOVED IN ITS ENTIRETY. EXISTING ROOF CURB SHALL REMAIN. PROVIDE NEW INSULATED CURB CAP AND SEAL WATERTIGHT.
8. GRAVITY AIR INTAKE VENTILATOR WITH INTEGRAL BACKDRAFT DAMPER AND INSECT SCREEN, MODEL FGI-14X14 AS MANUFACTURED BY GREENHECK; REFER TO NOA 23-1122.03 FOR INSTALLATION. VENTILATOR IS CONNECTED TO OUTSIDE AIR DUCTWORK SERVING AHU-1.

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KEY PLAN

MECHANICAL PROPOSED
ROOF PLAN

100% CONSTRUCTION DOCUMENTS

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SHEET No.

M2

1
M2
MECHANICAL PROPOSED ROOF PLAN

SCALE: 1/4"=1'-0"

REVISIONS:

**SALTZ
MICHELSON**
ARCHITECTS

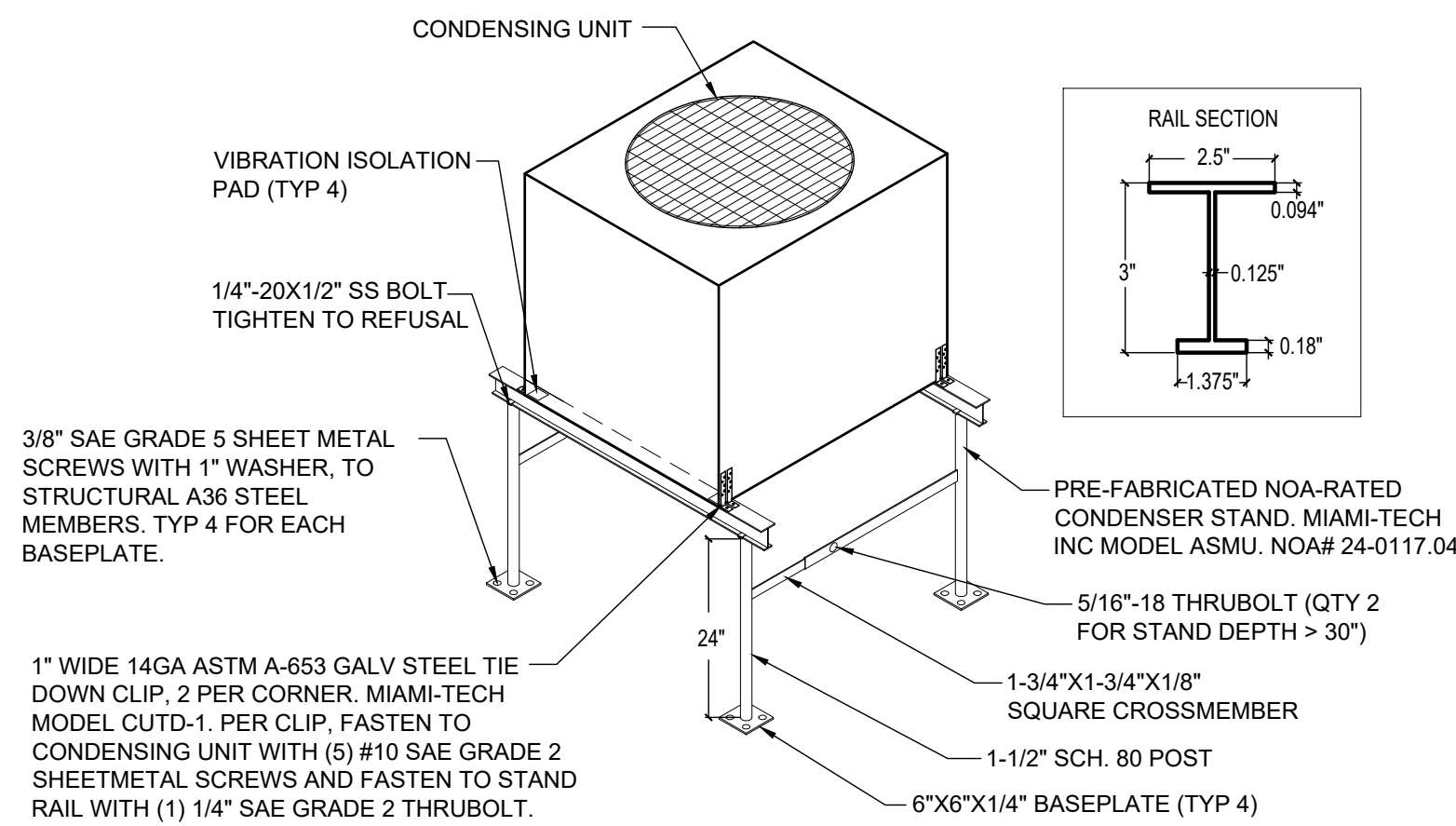
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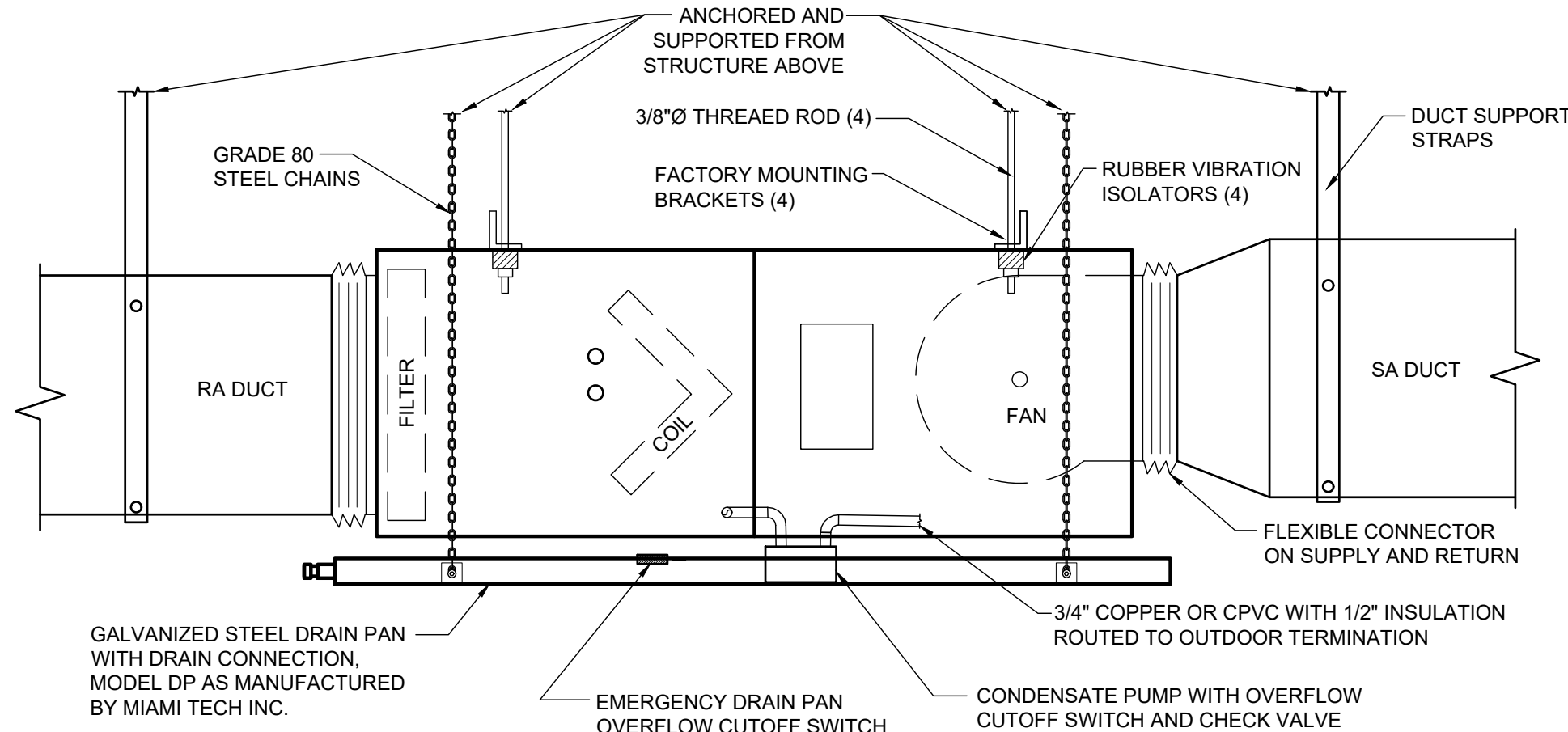
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AT LIBRARY SQUARE

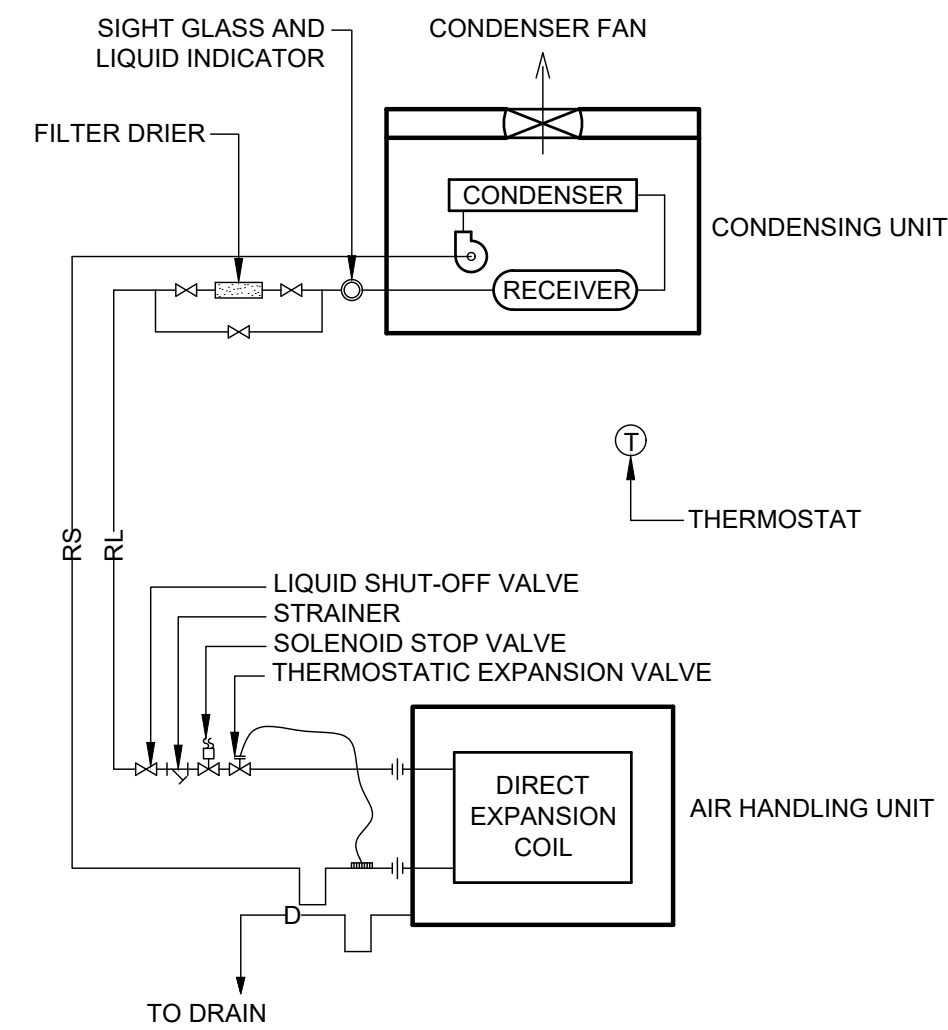
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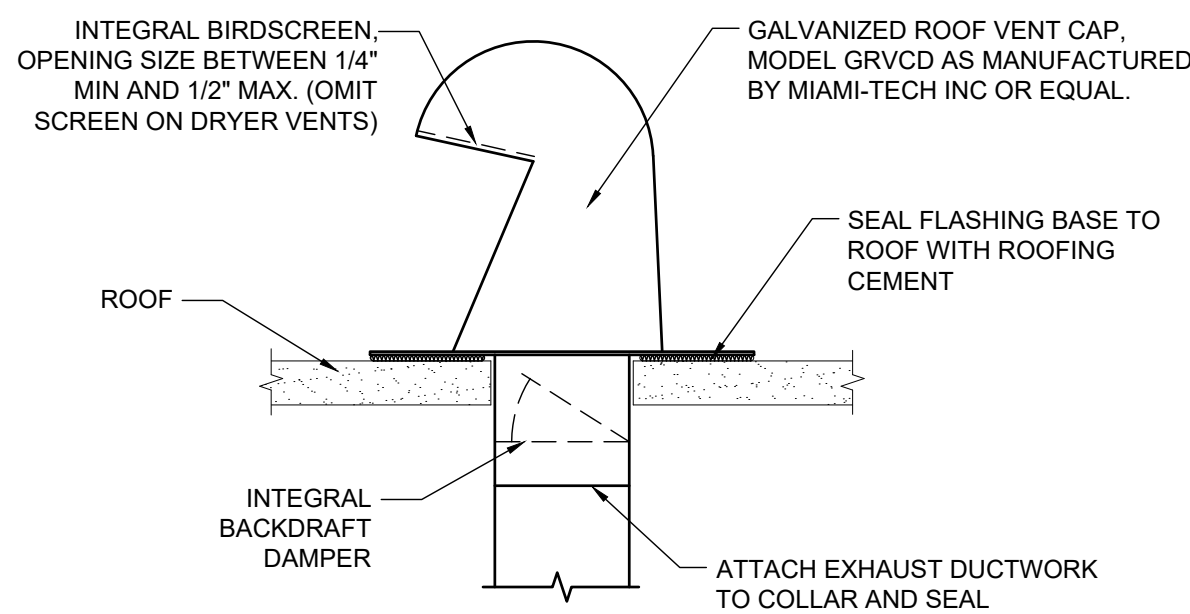
CONDENSING UNIT STAND DETAIL



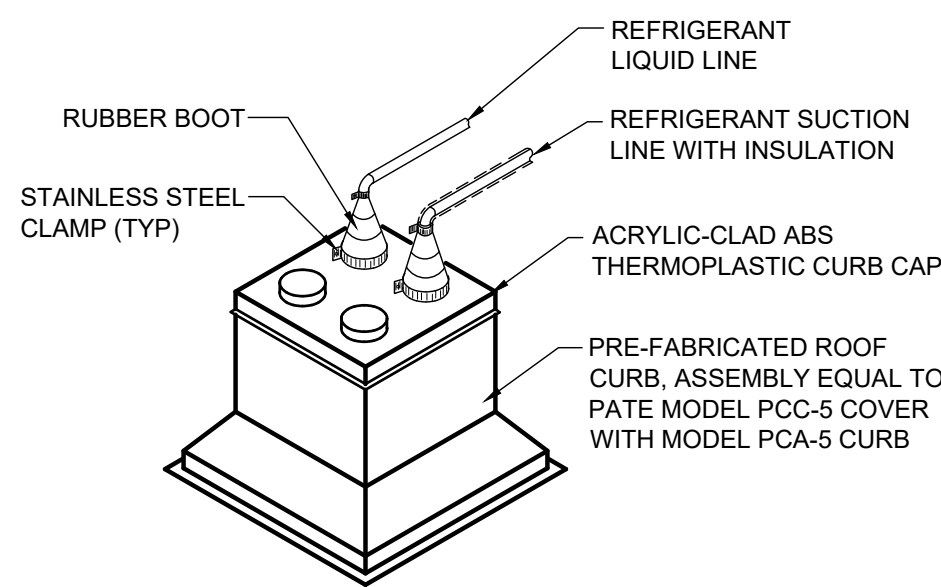
SUSPENDED AHU DETAIL



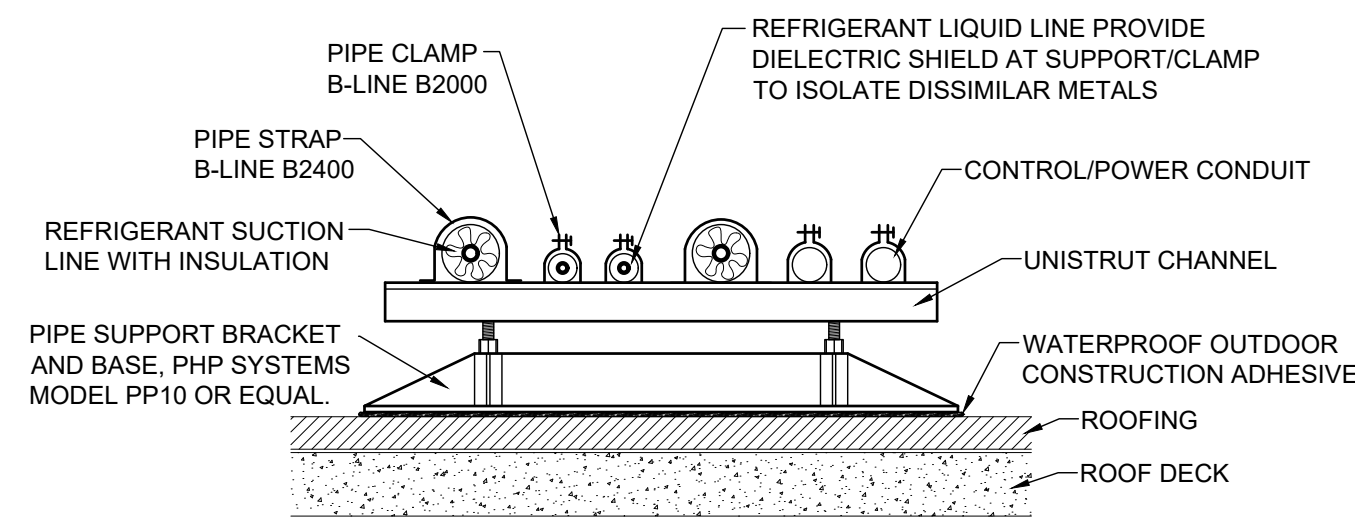
DX AIR-COOLED SPLIT SYSTEM CONNECTION DETAIL



ROOF VENT CAP DETAIL



PIPE CURB DETAIL



ROOF PIPE SUPPORT DETAIL

REVISIONS:



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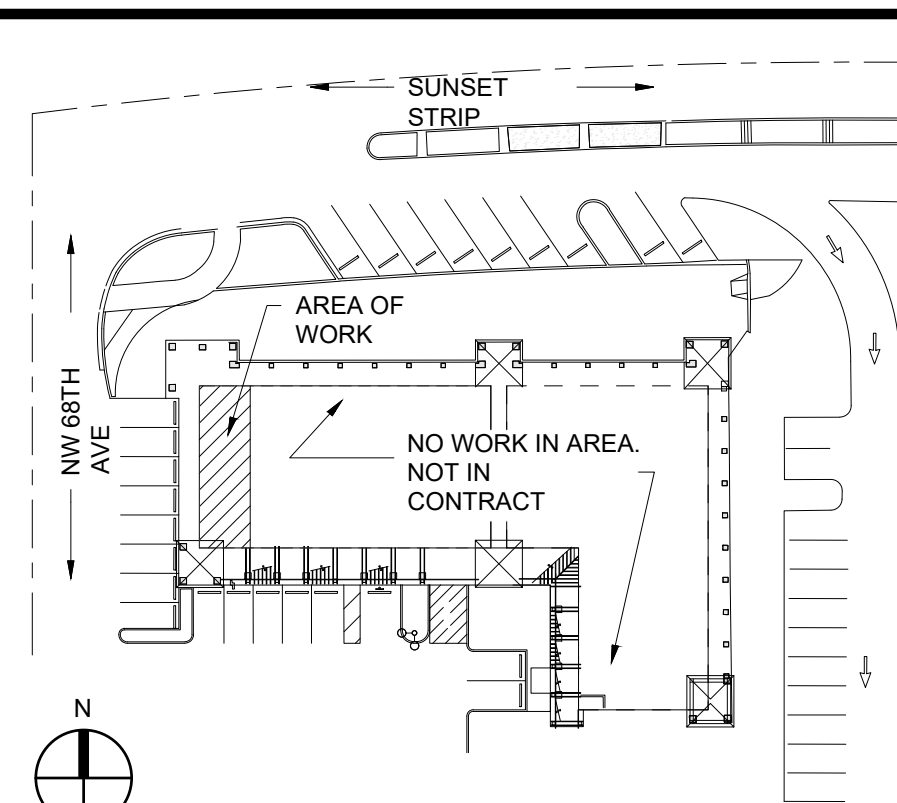
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SEAL

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Professional Engineer
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KEY PLAN

MECHANICAL DETAILS

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