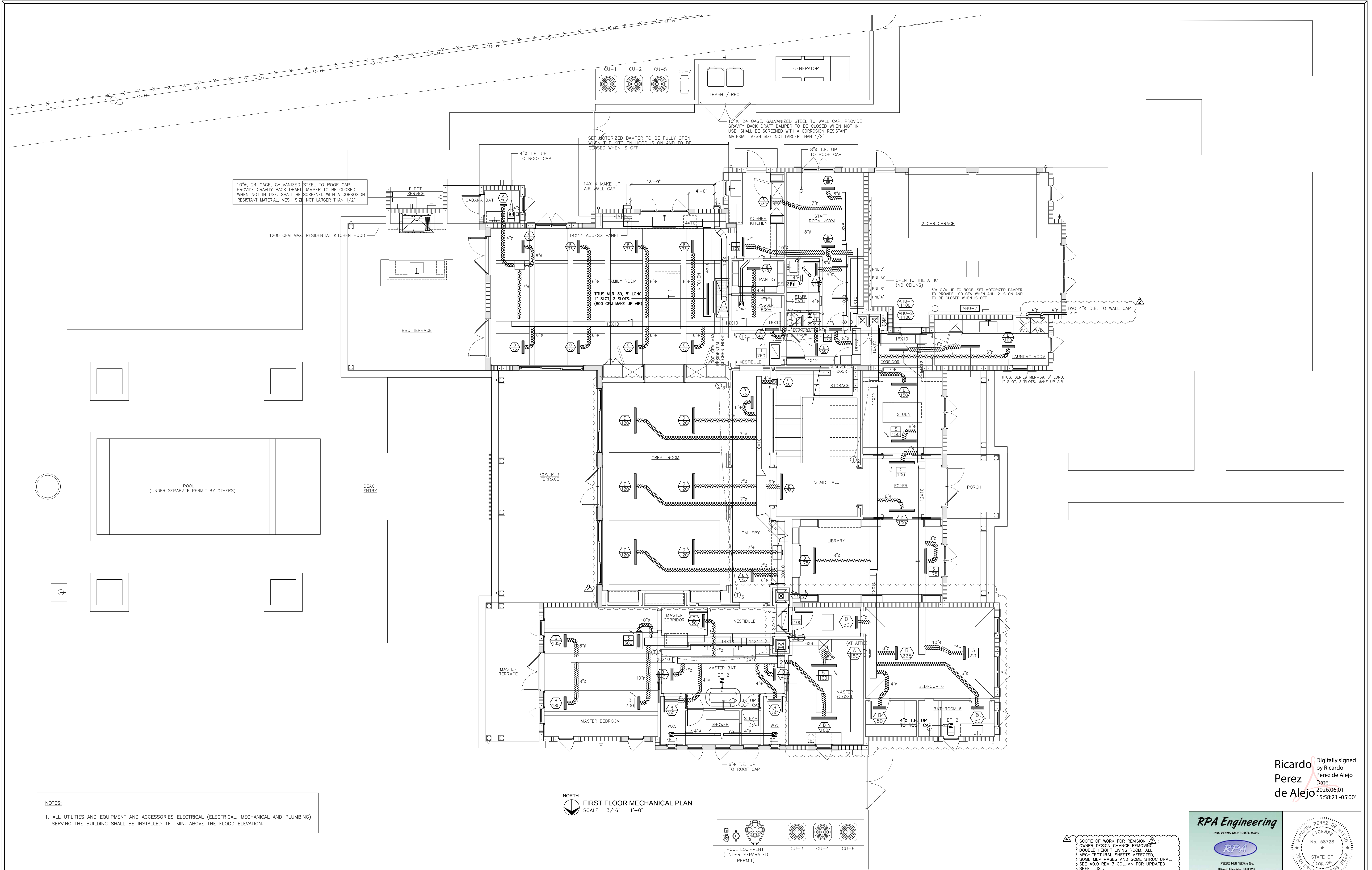
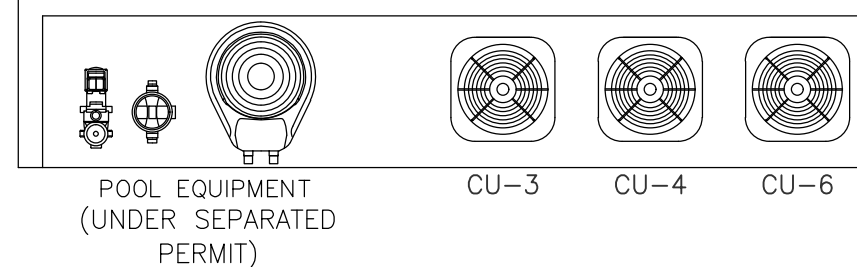




NOTES:

1. ALL UTILITIES AND EQUIPMENT AND ACCESSORIES ELECTRICAL (ELECTRICAL, MECHANICAL AND PLUMBING) SERVING THE BUILDING SHALL BE INSTALLED 1FT MIN. ABOVE THE FLOOD ELEVATION.

NORTH
FIRST FLOOR MECHANICAL PLAN
SCALE: 3/16" = 1'-0"



SCOPE OF WORK FOR REVISION 1:
OWNER DESIGN CHANGE REMOVING
DOUBLE HEIGHT LIVING ROOM. ALL
ARCHITECTURAL SHEETS AFFECTED.
SOME MEP PAGES AND SOME STRUCTURAL.
SEE A0.0 REV. 3 COLUMN FOR UPDATED
SHEET LIST.

Ricardo
Perez
de Alejo

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by Ricardo
Perez de Alejo
Date:
2026.06.01
15:58:21 -05'00'

RPA Engineering
PROVIDING MEP SOLUTIONS

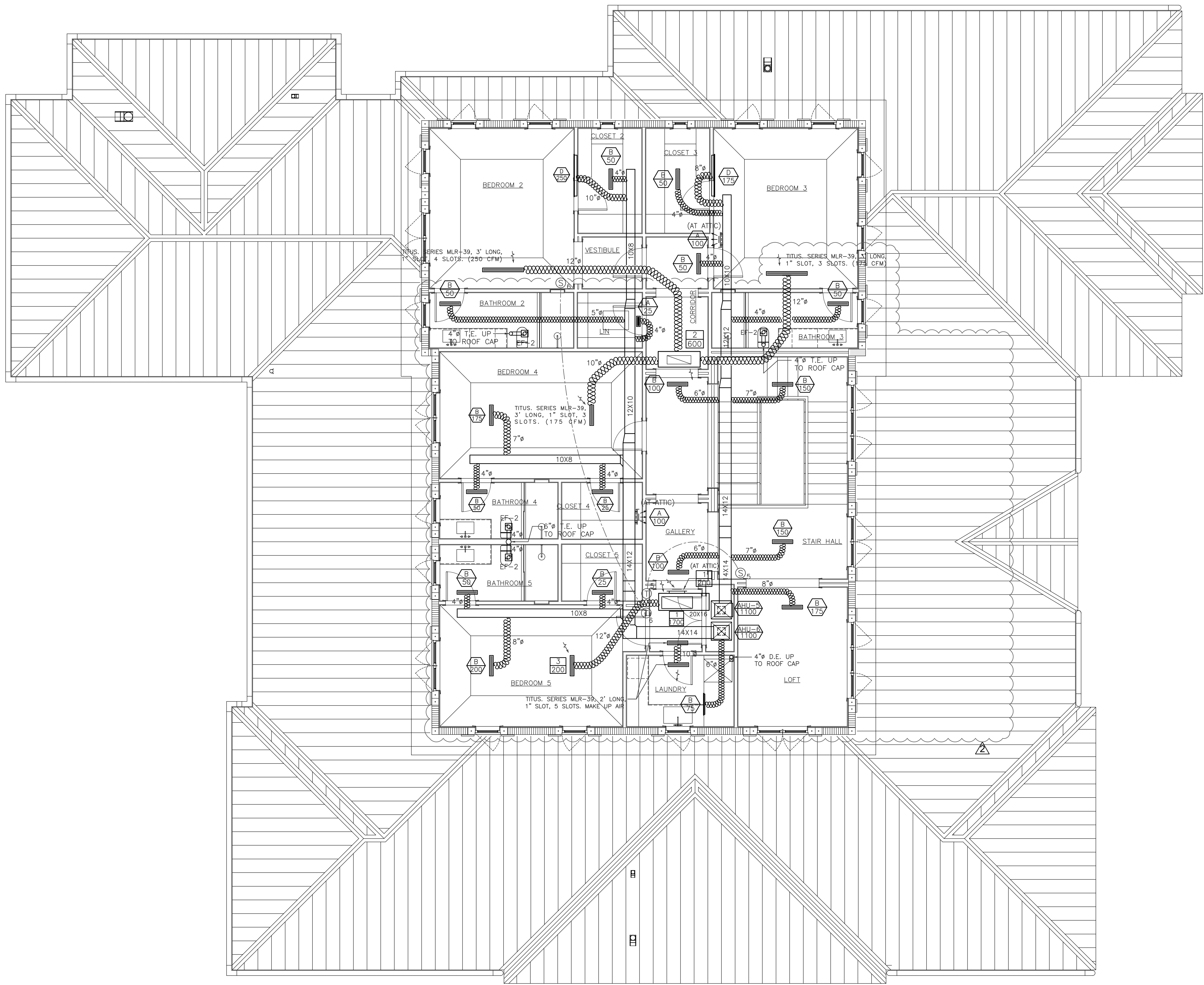
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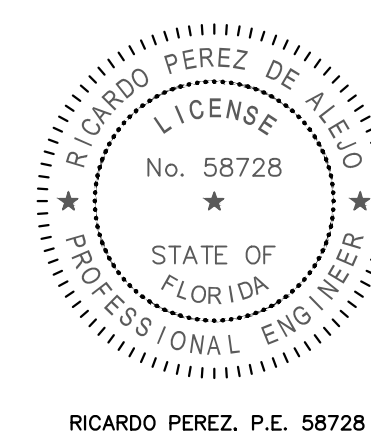
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 O.C.	08.25.25										
 O.C.	06.01.26										



NORTH
SECOND FLOOR MECHANICAL PLAN
SCALE: 3/16" = 1'-0"

Ricardo Perez de Alejo
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2 O.C.	06.01.26

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SPLIT A/C UNIT SCHEDULE													
AHU/CU UNIT DESIGNATION	SEER2	GRAND TOTAL CAPACITY, MBTUH / TOTAL SENSIBLE CAPACITY, MBTUH	REF. PIPING SUCTION/LIQUID	INDOOR UNIT						OUTDOOR UNIT			
				RHEEM MODEL NUMBER	LOCATION	TOTAL AIR, CFM	ELECTRICAL SERVICE AVAILABLE	ENTERING AIR TEMP. °F DB/WB	DIMENSIONS (H/W/D)	FAN MOTOR FLA (NON OVERLOAD)	HEATER KW AT 230V/1ø	RHEEM MODEL NUMBER	AMBIENT AIR TEMP °F DB
1	19.0	9.0-36.0 5.6-26.2	3/4 3/8	RHMY3621M	CLOSET	1100	208/230V 1ø	80 / 67	50.5/21/21.7	3.8	4.8	RA19AY36AJVC	95
2	19.0	9.0-36.0 5.6-26.2	3/4 3/8	RHMY3621M	CLOSET	1100	208/230V 1ø	80 / 67	50.5/21/21.7	3.8	4.8	RA19AY36AJVC	95
3	19.0	9.0-36.0 5.6-26.2	3/4 3/8	RHMY3621M	CLOSET	1100	208/230V 1ø	80 / 67	50.5/21/21.7	3.8	4.8	RA19AY36AJVC	95
4	16.0	9.0-36.0 5.6-26.2	3/4 3/8	RH3V22417	CLOSET	700	208/230V 1ø	80 / 67	42.5/17.5/21.7	2.8	4.8	RA16AZ224AJ3	95
5	19.0	9.0-36.0 5.6-26.2	3/4 3/8	RHMY3621M	CLOSET	1100	208/230V 1ø	80 / 67	50.5/21/21.7	3.8	4.8	RA19AY36AJVC	95
6	19.0	9.0-36.0 5.6-26.2	3/4 3/8	RHMY3621M	CLOSET	1100	208/230V 1ø	80 / 67	50.5/21/21.7	3.8	4.8	RA19AY36AJVC	95

EQUIPMENT SELECTED ARE THE SMALLEST SIZE NEEDED TO MEET THE LOAD WITHIN AVAILABLE OPTIONS OF THE DESIRED EQUIPMENT LINE.

REFRIGERANT LINE SIZE ACCORDING TO MANUFACTURER RECOMMENDATION. USE LONG LINE APPLICATIONS AS REQUIRED.

HVAC LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DESIGNATION FOR SUPPLY DIFFUSER LETTER AND CFM		NEW FIBERBOARD DUCTWORK
	DESIGNATION FOR RETURN REGISTER NUMBER AND CFM		ELBOW WITH TURNING VANES
	AIR HANDLING UNIT		REDUCERS AS INDICATED
	SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT SIDEWALL)		STANDARD BRANCH TAKE-OFF
	RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT SIDEWALL)		FLEXIBLE DUCTWORK W/COLLAR WITH VOLUME DAMPER
	EXHAUST FAN (CEILING TYPE)		PROGRAMABLE THERMOSTAT
	RETURN AIR GRILLE		MOTORIZED DAMPER
	CEILING DIFFUSER		

HVAC DESIGN REQUIRES	YES	NO
DUCT SMOKE DETECTOR		●
FIRE DAMPER(S)		●
SMOKE DAMPER(S)		●
FIRE RATED ENCLOSURE		●
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY		●
FIRESTOPPING		●
SMOKE CONTROL		●

BUILDING ENVELOPE INSULATION, GLAZING MINIMUM U AND SHGC VALUES

WALL INSULATION R VALUE = 4.1 OR MORE.
ROOF INSULATION R VALUE = 30 OR MORE
WINDOWS U VALUE = 1.06 OR LESS
WINDOWS SHGC = 0.29 OR LESS

GENERAL MECHANICAL NOTES

- 1- SCOPE OF WORK WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE FURNISHING OF ALL AIR CONDITIONING, HEATING AND VENTILATION WORK AS SHOWN ON DRAWINGS. HEREIN SPECIFIED AND/OR EQUAL EQUIPMENT FOR APPROVAL. INSTALL IN ACCORDANCE WITH THE FLORIDA BUILDING RESIDENTIAL CODE 2023, 8TH EDITION, AND LOCAL ORDINANCES.
- 2- AIR CONDITIONING SYSTEM OF SPLIT TYPE.
- 3- CONDENSATE WATER PIPING.
CONDENSATE WATER PIPING SHALL BE PVC SCHED. 40 MINIMUM, IN NON RETURN AIR PLENUM SPACES AND COPPER TYPE "K" IN RETURN AIR PLENUM SPACES. ALL HORIZONTAL PRIMARY CONDENSATE DRAINS WITHIN UNCONDITIONATED AREAS SHALL BE INSULATED.
- 4- EXHAUST VENTS SHALL BE AT 10' MINIMUM DISTANCE FROM ANY OUTSIDE AIR INTAKE, NOT LESS THAN 3 FEET FROM PROPERTY LINES, 3 FEET FROM OPERABLE AND NON-OPERABLE OPENINGS INTO THE BUILDING.
- 5- DUCTWORK
A) DUCTWORK SHALL BE FIBERBOARD FOR INDOOR AIR CONDITIONED SUPPLY AND RETURN DUCTWORK AND METAL FOR EXHAUST AND OUTSIDE AIR.
B) GLASS FIBER DUCTWORK SHALL BE "OWENS-CORNING" RECTANGULAR DUCT SYSTEM TYPE HD-FR OR EQUAL, 1-1/2" INSULATION R-6.5, CONFORMING TO APPLICATION MANUAL PUB.# 5-GL-2024 & DESIGN GUIDE, PUB.# 5-IN-2617 FOR ALL ATTIC CONDITIONS AND 1" FOR ALL INTERIOR INSTALLATIONS.
C) FLEXIBLE DUCTWORK SHALL MEET REQUIREMENTS OF NFPA 90A AND SHALL BE LISTED AS CLASS I AIR DUCT MATERIAL, UL STANDARD 181. FLEXIBLE DUCT SHALL BE INSULATED WITH 1-1/2" THICK, 3/4 LB DENSITY FIBERGLASS INSULATION WITH VAPOR BARRIER AND SHALL NOT EXCEED 10 FEET IN LENGTH, NON COMPRESSED, METALFLEX V-200-S-UL OR EQUAL.
D) METAL DUCTS SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE LOW VELOCITY DUCT CONSTRUCTION STANDARDS, PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONED CONTRACTORS NATIONAL ASSOCIATION, INC." AND THE LATEST PUBLICATION OF GUIDE & DATA BOOK OF THE "AMERICAN SOCIETY OF HEATING, VENTILATING AND AIR CONDITIONING ENGINEERS".
E) TURNING VANES SHALL BE PROVIDED IN ALL RECTANGULAR DUCTS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARS.
- 6- CONTRACTOR SHALL PROVIDE POSITIVE MEANS FOR BALANCING EACH INDIVIDUAL AIR CONDITIONING SUPPLY AIR OUTLET, AS PER SCHEDULES AND DRAWING. SYSTEMS SHALL BE BALANCED AGAINST THE ACTUAL INSTALLED STATIC PRESSURE.
- 7- BEFORE SUBMITTING FINAL PROPOSAL, THE CONTRACTOR SHALL EXAMINE THE SITE OF THE PROPOSED WORK TO DETERMINE THE EXISTING CONDITIONS THAT MAY AFFECT HIS WORK AS HE WILL BE RESPONSIBLE FOR ANY ASSUMPTIONS MADE BY HIM IN REGARDS THERE TO.
- 8- ANY APPARATUS, APPLANCE, MATERIALS, WORK OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE INSTALLATION COMPLETE AND FUNTIONAL IN ALL RESPECTS AND READY TO OPERATION, EVEN IF NO PARTICULARLY SPECIFIED, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL EXPENSE FOR THE OWNER, AS PART OF MEANS AND METHOD OF INSTALLATION.
- 9- VIBRATION ISOLATION.
PROVIDE SUPPORTS OR MOUNTS FOR ALL EQUIPMENT LOCATED WITHIN THE BUILDING STRUCTURE POWERED BY ONE HORSEPOWER OR LARGER MOTOR. FLEXIBLE PIPING CONNECTIONS SHALL BE PROVIDED FOR ALL PIPING CONNECTED TO EQUIPMENT MOUNTED OR SUPPORTED BY VIBRATION ISOLATORS.
- 10-PROVIDE ALL NECESSARY ACCESS TO PANELS TO CONTROL VALVES, DAMPERS, ETC.
- 11-ALL WORK SHALL BE FIELD CHECKED BEFORE INSTALLATION AND COORDINATED WITH ALL OTHER TRADES.
- 12-ALL MECHANICAL EQUIPMENT INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE CONSTRUCTED TO WITHSTAND A WIND PRESSURE OF 170 MPH WINDS FROM ANY DIRECTION.
- 13-ALL SIZES SHOWN FOR LINED AND UNLINED DUCTS ARE CLEAR INSIDE DUCT DIMENSIONS.
- 14-COORDINATE LOCATION OF DUCTWORK WITH OTHER TRADES, PARTICULARLY WHERE DUCTS RUN THROUGH STRUCTURAL ELEMENTS. PROVIDE ALL NECESSARY SLEEVES BEFORE CONCRETE IS POURED.
- 15-ALL CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL SUBCONTRACTOR MECHANICAL SUB CONTRACTOR TO FURNISH ALL MOTORS, STARTERS, AND RELAYS, ETC.
- 16-A/C CONTRACTOR IS RESPONSIBLE FOR OBTAINING HIS OWN PERMIT AND PAYING ALL PERMIT FEES.
- 17-NO COMBUSTIBLE MATERIAL SHALL BE REPLACED ON RETURN AIR PLENUMS.
- 18-EQUIPMENT ELEVATION INDICATIONS (WHEN SHOWN) SHALL BE USED FOR REFERENCE ONLY AND NOT AS AN INDICATION OF FABRICATION REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY AND MODIFY IN FABRICATION AS NECESSARY FOR A WORKABLE INSTALLATION.
- 19-CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL COSTS INCURRED RESULTING FROM SUBSTITUTION OF EQUIPMENT AS WELL AS THE PERFORMANCE OF SUCH EQUIPMENT.
- 20-TESTS.
ALL TESTS SHALL BE PERFORMED AS REQUIRED DURING THE DIFFERENT STAGES OF WORK AND A FINAL 24 HOURS
21-PROVIDE ALL NECESSARY INSTRUCTIONS TO THE OWNER IN THE OPERATION OF THE MECHANICAL SYSTEMS.
- 22-PROVIDE EQUIPMENT MAINTENANCE AND INSTRUCTION MANUALS. MANUALS SHALL BE SUBMITTED TO THE ARCHITECT FOR ACCEPTANCE.
- 23-SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY THE ARCHITECT AND/OR ENGINEER BEFORE PROCEEDING WITH PURCHASE OR INSTALLATION OF THE EQUIPMENT AND MATERIALS.
- 24-GUARANTEE.
CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF 3 YEARS LABOR, 1 YEAR EQUIPMENT FROM DATE OF ACCEPTANCE.

FAN SCHEDULE									
FAN NO.	CFM	SP.	MODEL	MFR.	VOLT- PH -HZ	WATTS	SONES	INTERLOCK	ACCESSORIES
EF-1	50	0.2"	FV-05VK1	PANASONIC	115-1-60	11.3	0.3	LIGHT SWITCH	BACKDRAFT DAMPER
EF-2	80	0.2"	FV-08VK1	PANASONIC	115-1-60	11.3	0.3	LIGHT SWITCH	BACKDRAFT DAMPER

AIR DISTRIBUTION SCHEDULE						
SYM.	USE	TYPE	MODEL NO.	NECK SIZE	FLEX. DIA.	CFM RANGE
	SUPPLY AIR	CEILING LINEAR	TITUS SERIES ML-39 1" LONG, 1" SLOT	(1) SLOT (2) SLOTS (3) SLOTS	PER PLAN	TO 40 CFM/LINEAR FT TO 70 CFM/LINEAR FT TO 100 CFM/LINEAR FT
	SUPPLY AIR	CEILING LINEAR	TITUS SERIES ML-39 2" LONG, 1" SLOT	(1) SLOT (2) SLOTS (3) SLOTS		TO 40 CFM/LINEAR FT TO 70 CFM/LINEAR FT TO 100 CFM/LINEAR FT
	SUPPLY AIR	CEILING LINEAR	TITUS SERIES ML-39 3" LONG, 1" SLOT	(1) SLOT (2) SLOTS (3) SLOTS		TO 40 CFM/LINEAR FT TO 70 CFM/LINEAR FT TO 100 CFM/LINEAR FT
	SUPPLY AIR	CEILING LINEAR	TITUS SERIES ML-39 4" LONG, 1" SLOT	(1) SLOT (2) SLOTS (3) SLOTS		TO 40 CFM/LINEAR FT TO 70 CFM/LINEAR FT TO 100 CFM/LINEAR FT
	SUPPLY AIR	SINGLE DEFLECTION CEILING GRILLE	TITUS MODEL 300FL	8X4 10X6 10X6 10X10		30-75 76-150 151-200 100-250
	DUCTED RETURN AIR	RETURN AIR CEILING GRILLE W/ O.B.D.	TITUS MODEL 355FL	12X12, 22X6 14X14, 34X6 18X18, 32X10 20X20, 36X12 22X22, 36X14 46X22		251-400 401-600 601-1200 1201-1600 1601-2100 2101-2700
	TRANSFER RETURN AIR	RETURN AIR CEILING GRILLE W/ O.B.D.	TITUS MODEL 355FL	10X10 12X12, 16X10 14X14, 24X8 18X18, 28X10 26X16 30X16		TRANSFER, 75-150 TRANSFER, 151-225 TRANSFER, 226-325 TRANSFER, 326-575 TRANSFER, 576-725 TRANSFER, 726-890
	RETURN AIR	CEILING LINEAR	TITUS SERIES MLR-39 2" LONG, 1" SLOT	(1) SLOT (2) SLOTS (3) SLOTS		TO 60 CFM/LINEAR FT TO 120 CFM/LINEAR FT TO 180 CFM/LINEAR FT
	RETURN AIR	CEILING LINEAR	TITUS SERIES MLR-39 3" LONG, 1" SLOT	(1) SLOT (2) SLOTS (3) SLOTS		TO 60 CFM/LINEAR FT TO 120 CFM/LINEAR FT TO 180 CFM/LINEAR FT
	RETURN AIR	CEILING LINEAR	TITUS SERIES MLR-39 4" LONG, 1" SLOT	(1) SLOT (2) SLOTS (3) SLOTS		TO 60 CFM/LINEAR FT TO 120 CFM/LINEAR FT TO 180 CFM/LINEAR FT

Ricardo
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de Alejo

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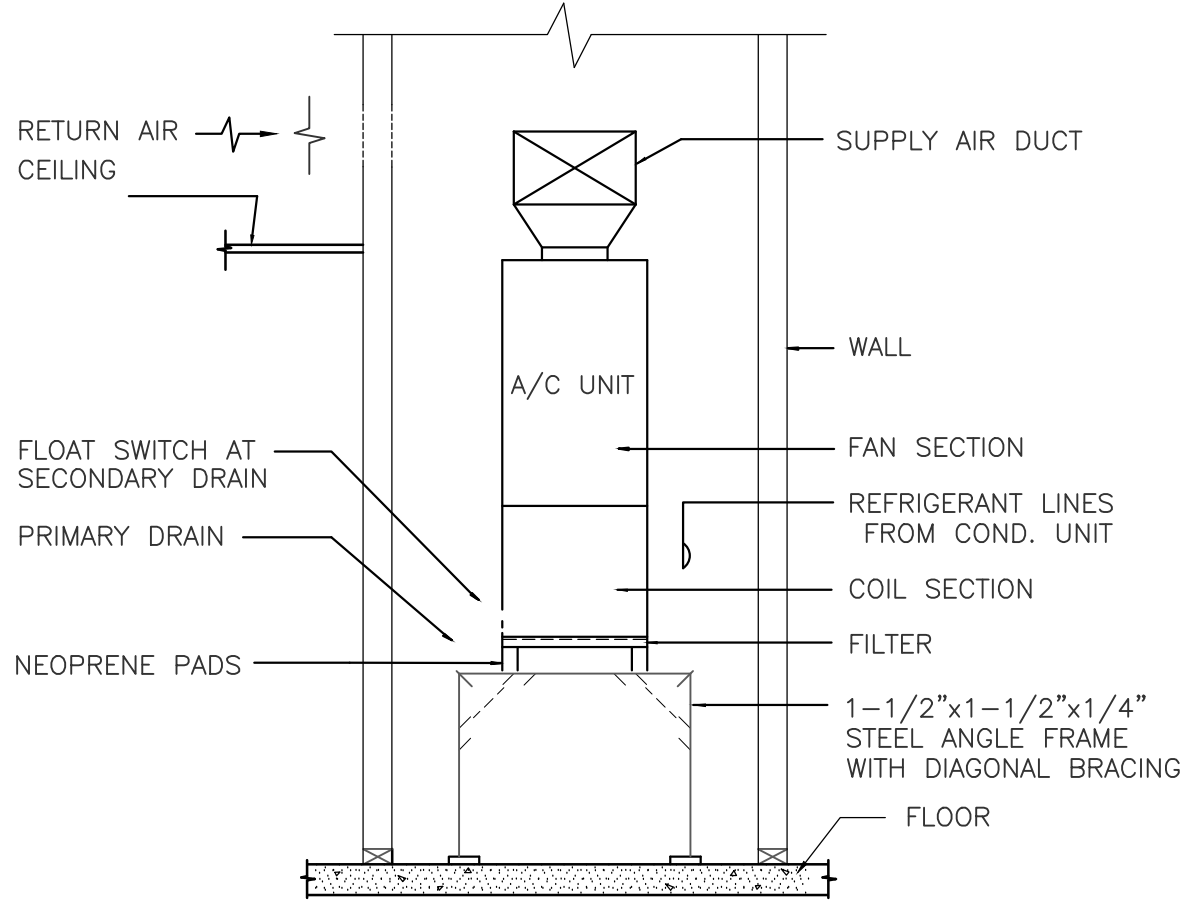
No. 58728

STATE OF FLORIDA

PROFESSIONAL ENGINEER

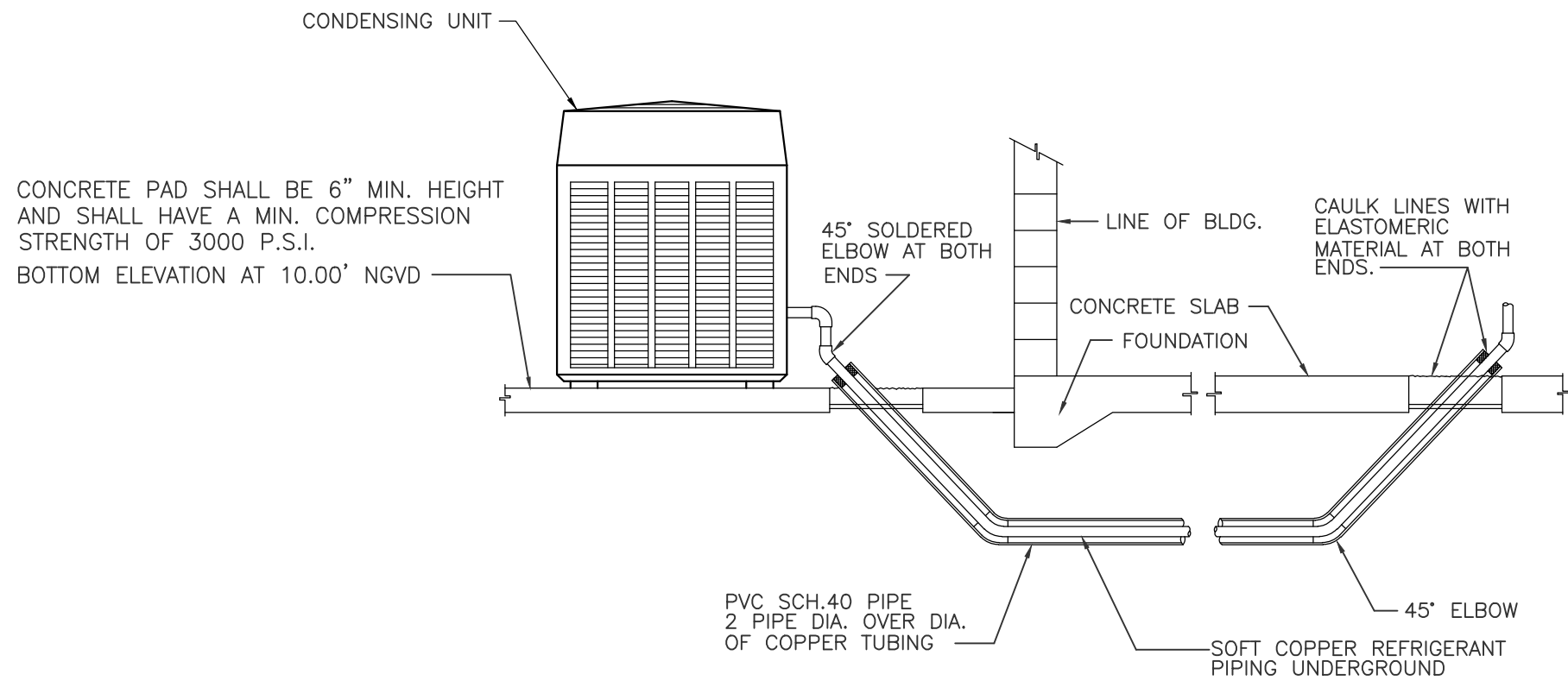
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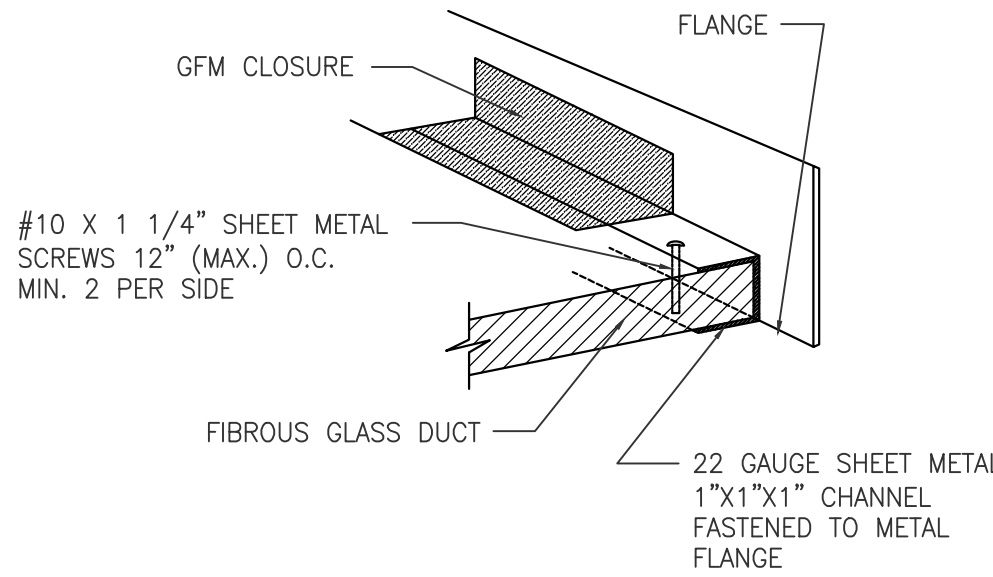
- NOTES:
- 1- THE AIR HANDLER SHALL HAVE A MINIMUM WORKING SPACE CLEARANCE OF 3 INCHES ALONG THE SIDES, BACK AND TOP WITH A TOTAL WIDTH OF THE ENCLOSING SPACE BEING NOT LESS THAN 12 INCHES WIDER THAN THE AIR HANDLER.
 - 2- PROVIDED FLOAT ON SECONDARY DRAIN SWITCH TO SHUT DOWN A.H.U. UPON ACTIVATION.
 - 3- REFER TO PLUMBING FLOOR PLANS P-1.1 FOR CONDENSATE DRAIN LINES LAYOUT AND POINT OF TERMINATION.

A.H.U. 1.2 MOUNTING DETAIL
N.T.S.



- NOTES:
- 1- REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS.
 - 2- ANCHOR SHALL HAVE 500 POUNDS PULL-OUT MIN.

CONDENSING UNIT MOUNTING DETAIL
N.T.S.

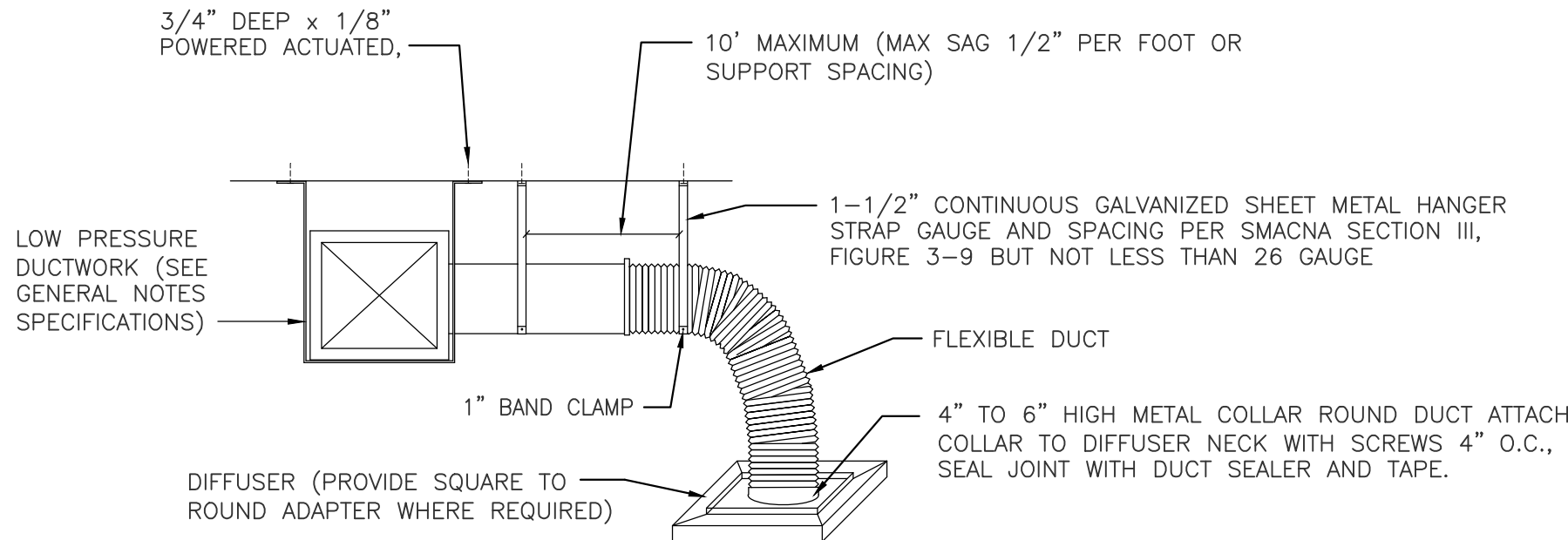


NOTE:
SHEET METAL CONNECTIONS MUST BE MADE USING GLASS FABRIC AND MASTIC (GFM)

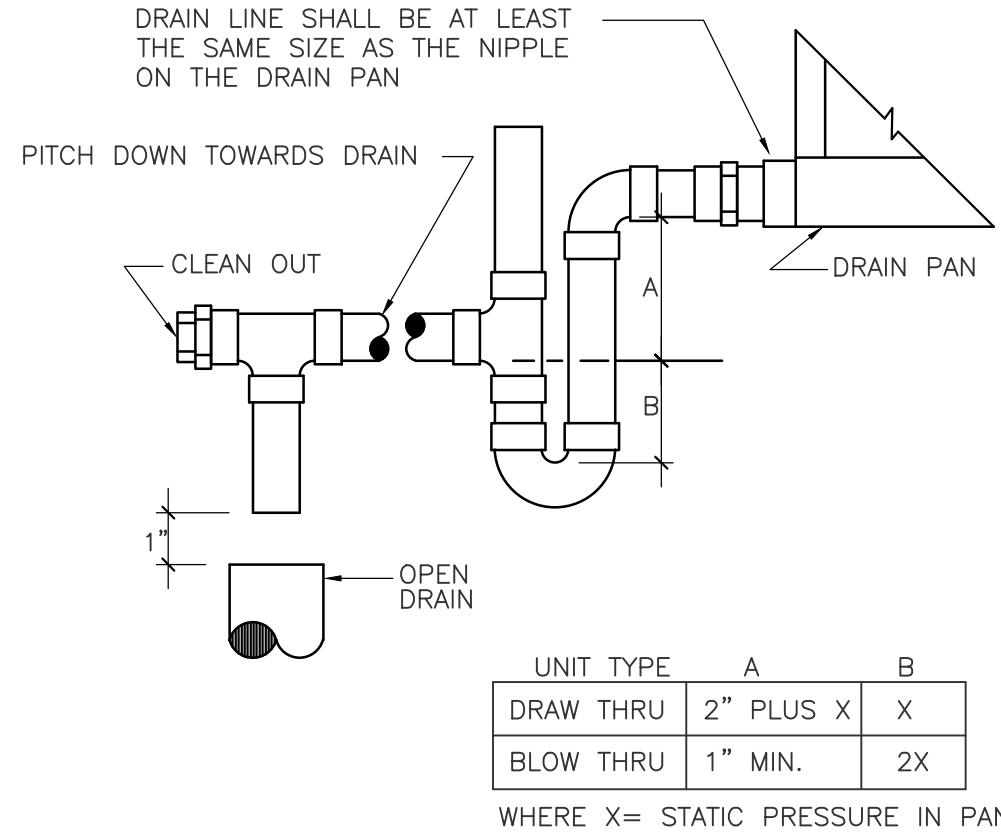
EXCEPTION:

WHEN CONSTRUCTION PRESSURE CLASS IS 1" W.G. OR LESS AND SHEET METAL SURFACES ARE CLEANED CAREFULLY UL LISTED PRESSURE-SENSITIVE ALUMINUM TAPE MAY BE USED. ALL CONNECTIONS OF FIBROUS GLASS DUCT TO EQUIPMENT AND METAL DUCT MUST BE MECHANICALLY ATTACHED 12" (MAX.) ON CENTERS.

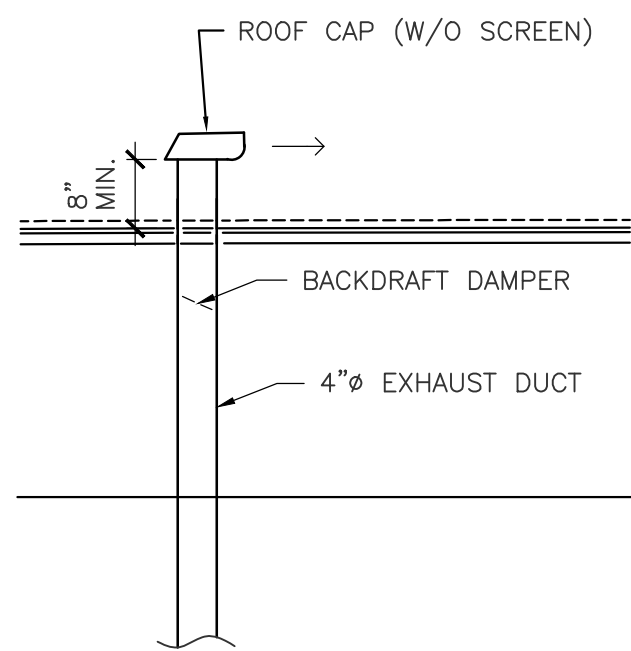
SHEET METAL AND EQUIPMENT
CONNECTIONS DETAILS
N.T.S.



DUCT HANGING DETAIL
N.T.S.

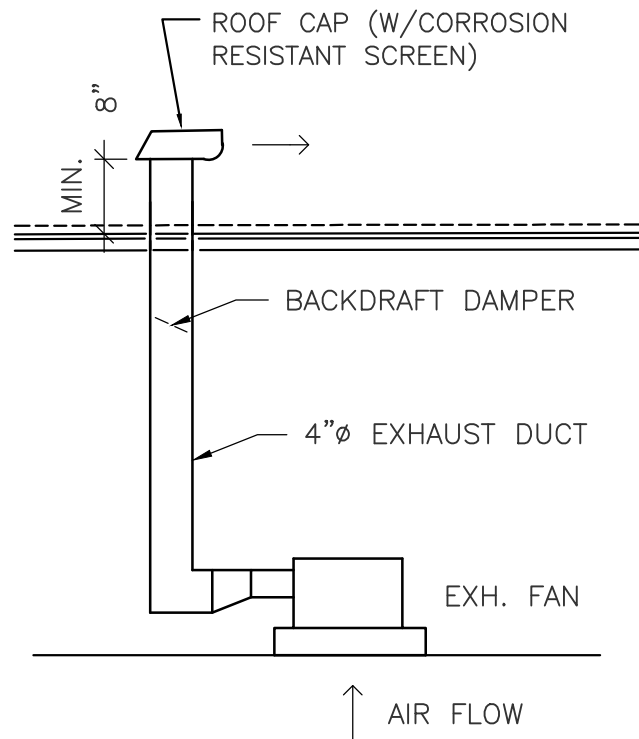


AIR HANDLING UNIT DRAIN TRAP
N.T.S.



CLOTHES EXH. DRYER DUCT SHALL NOT BE SCREENED & CONSTRUCTED OF A MIN. 0.016 INCHES THICK OR 28 GAUGE METAL PIPE HAVING A SMOOTH INTERIOR SURFACE W/ JOINTS IN THE DIRECTION OF THE AIR FLOW NO SCREWS OR FASTENERS EXTENDED INTO THE DUCTS AS PER FMCR-M1502.4.1

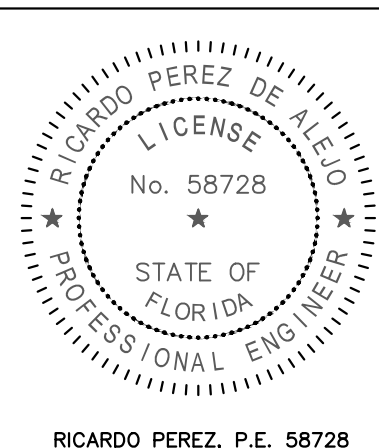
DRYER EXHAUST ROOF CAP
N.T.S.



BATHROOM EXHAUST DUCTS TO BE CONSTRUCTED OF A MIN. 28 GAUGE (GALVANIZED) AND DISCHARGE TO THE OUTSIDE OF THE BLDG. SHALL BE TERMINATED NOT LESS THAN 6" ABOVE THE FINISHED ROOF SURFACE AND SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL, MESH SIZE NOT LARGER THAN 1/2".

TOILET EXHAUST ROOF CAP
N.T.S.

Ricardo Perez de Alejo
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RICARDO PEREZ, P.E. 58728

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