### **HVAC GENERAL NOTES**

- . HVAC DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND REPRESENT EXISTING CONDITIONS BASED ON DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS INCLUDING, DUCTWORK AND PIPING LOCATIONS
- 2. DUE TO DRAWINGS BEING DIAGRAMMATICAL IN NATURE RISERS AND DROPS ARE NOT SHOWN - CONTRACTOR SHALL INCLUDE THESE IN THE BID - WHERE POSSIBLE ALL RISERS AND DROPS SHALL BE CONSTRUCTED USING 45 DEGREE OR LONG RADIUS ELBOWS.
- 3. PROVIDE AND INSTALL NECESSARY DUCTWORK TRANSITIONS AND PIPING INCREASERS/REDUCERS AS REQUIRED FOR EQUIPMENT CONNECTIONS. CONSULT MANUFACTURER'S DATA FOR ACTUAL DUCTWORK AND PIPING CONNECTIONS SIZES, INCLUDING, BUT NOT LIMITED TO THOSE SHOWN.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE AIR CONDITIONING CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS SO THAT DELIVERY WILL NOT INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE AIR CONDITIONING CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC: DO NOT SCALE FOR EXACT LOCATIONS. THE AIR CONDITIONING CONTRACTOR SHALL INSTALL ALL NECESSARY OFFSETS, BENDS, AND TRANSITIONS AS REQUIRED TO PROVIDE A COMPLETE AND FULLY OPERATIVE SYSTEM. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL NOTIFY ENGINEER IF DUCT SIZE CHANGES ARE REQUIRED BECAUSE OF EXISTING CONDITIONS.
- 6. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, TESTS, AND ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE
- 7. AFTER BID SELECTION AND PRIOR TO COMMENCEMENT OF WORK, THE AIR CONDITIONING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR 31. THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE ALL ALL DUCT WORK, EXHAUST FANS, AIR DEVICES, AND EQUIPMENT AS STATED ON SCHEDULES AND OR NOTES. AHRI CERTIFICATES FOR ALL EQUIPMENT SHALL BE INCLUDED IN THE SUBMITTAL PACKAGE. IF THE CONTRACTOR PROPOSES TO USE ANY ARTICLE, DEVICE, PRODUCT, OR MATERIAL WHICH IS NOT AS SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVE TO THE ENGINEER THAT THE PROPOSED SUBSTITUTION IS EQUAL AND WILL FIT ALLOCATED SPACE.
- 8. LOCATION OF AIR CONDITIONING DUCTS AND AIR DEVICES MAY CHANGE. VERIFY EXACT LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. DRAWINGS ARE DIAGRAMMATIC, DO NOT SCALE FOR THE EXACT LOCATION OF DUCTS, DIFFUSERS, GRILLES, REGISTERS, PIPING, EQUIPMENT, ETC. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES.
- 9. PROVIDE MANUAL VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND GRILLES AND TO ALL LOW PRESSURE BRANCH DUCTS TO REHEAT COILS. PROVIDE DAMPERS AS CLOSE AS POSSIBLE TO BRANCH CONNECTION TO MAIN. SEE DIFFUSER AND GRILLE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 10. NO PIPING, DUCTWORK, OR CONDUIT SHALL BE INSTALLED UNTIL IT IS COORDINATED WITH ALL OTHER TRADES AFFECTED. PROVIDE ALL OFFSETS REQUIRED TO AVOID INTERFERENCE WITH OTHER TRADES: EXISTING CONDITIONS AND WITH THE STRUCTURE, INCLUDING, BUT NOT LIMITED TO, THOSE SHOWN.
- 11. DO NOT BLOCK TUBE PULL OR SERVICE SPACE ON EQUIPMENT WITH PIPING, DUCTWORK, ETC.. (FLANGED OR REMOVABLE SECTIONS MAY BE USED IN SOME INSTANCES WHERE TIGHT CLEARANCES EXISTS).
- 12. IF NO SIZE IS SHOWN FOR DUCT SERVING DIFFUSER OR GRILLES, USE SIZE SHOWN ON DIFFUSER AND GRILLE SCHEDULE.
- 13. DUCTWORK ROUTED PARALLEL TO A WALL, RATED OR CORRIDOR SHALL BE INSTALLED WITH MINIMUM 6" CLEARANCE TO ALLOW FOR INSPECTION OF WALL PENETRATIONS. CONTRACTOR SHALL PROVIDE 12" CLEARANCE WHERE POSSIBLE, COORDINATE.
- 14. REFER TO DETAIL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

CLEARANCE IN FRONT OF PANEL.

- 15. PROVIDE TEMPORARY FILTERS ON ALL RETURN AIR GRILLES AND
- TRANSFER OPENINGS IN THE WORK AREA. 16. INSTALL AHU CONTROL PANELS TO PROVIDE FOR 3'-0" MIN.
- 17. UNLESS OTHERWISE NOTED ON PLANS, LOW RETURN AIR GRILLES AND LOW EXHAUST GRILLES SHALL BE 6" TO 8" A.F.F. TO BOTTOM OF GRILLE.
- 18. ALL DIFFUSERS IN SAME SPACE SHALL HAVE THE SAME FULL FACE SIZE USING LARGEST SIZE REQUIRED FROM DIFFUSER AND GRILLE
- 20. ALL WORK SHALL BE PERFORMED BY A LICENSED AIR CONDITIONING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. 44. IF ANY CONFLICTS OR DISCREPANCIES APPEAR IN THESE ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE DOCUMENTS, THE MORE STRINGENT OF THE REQUIREMENTS ARE TO WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES AND
- 21. THE AIR CONDITIONING CONTRACTOR SHALL BE RESPONSIBLE TO

- REPAIR TO ORIGINAL CONDITION ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, AND FURNISHINGS CAUSED BY THE CONTRACTOR DURING THE PERFORMANCE OF WORK.
- 22. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- 23. THE PLUMBING CONTRACTOR SHALL RUN ALL CONDENSATE DRAINS PER PLUMBING SPECIFICATIONS. (SEE PLUMBING SHEETS)
- 24. COMBUSTIBLE PIPING IS NOT PERMITTED IN RETURN AIR PLENUMS OR CEILING SPACES USED FOR RETURN AIR.
- 25. THE AIR CONDITIONING CONTRACTOR SHALL USE RADIUS TURNS WITH A 1.5 CENTERLINE TO WIDTH RATIO (1.5 R/W), VANED ELBOWS, SPLITTER DAMPERS WHERE INDICATED, VOLUME CONTROLS IN ALL BRANCH LINES AND SUPPLY AND RETURN AIR DEVICES.
- 26. THE AIR CONDITIONING CONTRACTOR SHALL SEAL ALL DUCTS IN AN APPROVED MANNER TO INSURE AGAINST LEAKAGE.
- 27. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID ANY CONFLICTS IN LOCATIONS FOR DUCTS, DIFFUSERS, GRILLES, REGISTERS, PIPING, EQUIPMENT, ETC., IN ORDER TO NOT INTERFERE WITH THE PROGRESS OF CONSTRUCTION.
- 28. THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL FANS, A/C UNITS, OR MECHANICAL EQUIPMENT, EXCEPT FOR EXHAUST HOODS.
- 29. UNLESS NOTED AS EXISTING TO BE REUSED (E) OR RELOCATED (RE), ALL EQUIPMENT, PIPING, DUCTS, REGISTERS, ETC., SHALL BE
- 30. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR UNDERWRITERS LABEL WHERE APPLICABLE.
- CONTRACTORS, STARTERS, RELAYS, AND THERMOSTATS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS, POWER WIRING AND CONTROL WIRING, UNLESS NOTED
- 32. THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE 1" THICK FARR 30/30 (THROW-AWAY TYPE) FILTERS WITH EACH A/C UNIT.
- 33. ALL PENETRATIONS OF FIRE-RATED WALLS, FLOORS OR CEILINGS SHALL BE FIREPROOFED BY A SEALING METHOD AND RATING AS SPECIFIED ON THE DRAWINGS OR AS REQUIRED BY THE LOCAL OR
- 34. AIR HANDLING DEVICES IN EXCESS OF 2000 CFM WILL HAVE A DUCT SMOKE DETECTOR TO STOP THE FAN AND ACTIVATE A HORN AND STROBE LIGHT. ALL EQUIPMENT SHALL BE INTERLOCKED AS REQUIRED BY LOCAL CODES OR FIRE SAFETY OFFICIALS.
- 35. ALL WORK SHALL COMPLY WITH BASE BUILDING LIFE SAFETY/SMOKE CONTROL SYSTEM REQUIREMENTS. PROVIDE ALL NECESSARY WIRING, CONTACTORS, RELAYS, ETC., AS REQUIRED FOR INTERFACE WITH BASE BUILDING SYSTEM.
- 36. THE AIR CONDITIONING CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
- 37. THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS BUILT DRAWINGS TO THE ENGINEER UPON COMPLETION OF INSTALLATION. IF FIELD CHANGES ARE MADE WHICH DEVIATE FROM ENGINEERING DRAWINGS TO THE EXTENT THAT THE BUILDING DEPARTMENT REQUIRES THESE CHANGES BE INCORPORATED PRIOR TO INSPECTION, THE CONTRACTOR SHALL PROVIDE SKETCHES TO THE ENGINEER FOR INCORPORATION INTO THE BUILDING PLANS. ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
- 38. AIR CONDITIONING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, AND ALL GUARANTEES AND WARRANTIES SHALL BE DELIVERED TO THE OWNER. COMPRESSORS SHALL HAVE EXTENDED FIVE YEAR WARRANTIES.
- 39. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EQUIPMENT WITH THE OWNER'S REPRESENTATIVE AND THE ACTUAL EQUIPMENT BEING FURNISHED.

- 41. ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NO MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR U.L.723.
- 42. CONTRACTOR MUST SUBMIT A PROPOSED SOLUTION WITH ALL RFIS.
- 19. PROVIDE CLEAR ACCESS TO FIRE DAMPERS, SMOKE DAMPERS, AND 43. CONTRACTOR SHALL SUBMIT COORDINATED LAYOUT DRAWINGS VERIFYING CLEARANCES AND NO INTERFERENCES WITH SYSTEMS. THIS INCLUDES SYSTEMS SEALED ABOVE CEILING LAYOUTS.

X #.#	X = SECTION [LETTER] OR DETAIL [NUMBER] #.# = WHERE DETAIL OR SECTION IS SHOWN			
	ITEMS SHOWN DASHED ARE EXISTING (UNLESS NOTED OTHERWISE)			
<del>///////</del> .	HATCHING INDICATES ITEMS TO BE REMOVED (UNLESS NOTED OTHERWISE)			
X X	KEYED NOTES ON DRAWINGS & SCHEDULES			
$\Delta \sim \sim$	REVISIONS			
100	ROOM NUMBERS			
XXXX	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			
<u>XX-1</u>	EQUIPMENT TAGS (XX = MARKS BELOW)  AHU = AIR HANDLING UNIT SF = SUPPLY FAN AS = AIR SEPARATOR FH = FUMEHOOD BO = BOILER CWP = CONDENSER WATER PUMP CC = COOLING COIL CHWP= CHILLED WATER PUMP CH = CHILLER HC = HEATING COIL CT = COOLING TOWER SL = STATIONARY LOUVER CU = CONDENSING UNIT UH = UNIT HEATER EDH = ELEC. DUCT HEATER CR = CONDENSATE RECEIVER EF = EXHAUST FAN PRV = PRESSURE REDUCING VALVE HE = HEAT EXCHANGER RHC = REHEAT COIL P = PUMP HWP = HOT WATER PUMP EDH = ELEC. DUCT HEATER FS = FLOW STATION LVR = WALL LOUVER CS = CHEMICAL SHOT FEEDER EF = EXHAUST FAN ACCU = AIR COOLED COND. UNIT RTU = ROOF TOP UNIT ACCH = AIR COOLED CHILLER RF = RETURN FAN SCHW= SECONDARY CHILLED WATER PCU = PRE-COOLING UNIT VAV = VAV TERMINAL UNIT			
•	CONNECTION OF NEW TO EXISTING			
	EXISTING TO REMAIN. NO MECHANICAL WORK IN THIS AREA.			

MECH	HANICAL SYMBOLS (HVAC)					
$\boxtimes$	TYP. SUPPLY AIR CEILING DIFFUSER. SHADING INDICATES BLOCKED QUADRANT(S) FOR 1, 2 OR 3-WAY BLOW.					
	RETURN AIR GRILLE (SEE AIR DEVICE SCHEDULE)					
	EXHAUST FAN					
	SIDEWALL REGISTER/GRILLE (SEE AIR DEVICE SCHEDULE)					
	FLEXIBLE DUCT (10 FT. MAX. LENGTH)					
<u>6"øR</u>	RIGID ROUND DUCTWORK TO DIFFUSER					
$\oplus$	HUMIDITY SENSOR					
79	WALL MOUNTED TERMPERATURE SENSOR					
(T/HS)	WALL MOUNTED COMB. TERMPERATURE & HUMIDITY SENSOR					
(CD)	WALL MOUNTED CARBON DIOXIDE SENSOR					
Ō∭	DUCT MOUNTED TEMPERATURE SENSOR					
S	DUCT MOUNTED SMOKE DETECTOR					
FD	FIRE DAMPER					
	45° SIDE TAKEOFF FITTING TO DIFFUSER, WITH MANUAL VOLUME DAMPER. OUTLET DIAMETER OF FITTING IS EQUAL TO DIFFUSER NECK.					
24X12	DUCT SIZE DESIGNATION. SIDE SHOWN IS FIRST DIMENSION. SIZE SHOWN IS INTERNAL CLEAR OPENING. SHEET METAL SIZE MUST BE INCREASED FOR INTERNAL INSULATION WHERE SPECIFIED. ( $\emptyset$ = ROUND DUCT, $\longleftrightarrow$ = FLAT OVAL DUCT)					
	TURNING VANES (NUMBER OF VANES SHALL BE BASED ON ACTUAL DUCT SIZE, NOT ON SCHEMATIC SYMBOL ON DRAWING)					
	RETURN, EXHAUST OR OUTSIDE AIR DUCT					
	DISCHARGE OR SUPPLY DUCT					
	FLEXIBLE DUCT CONNECTION					
	VOLUME DAMPER (MANUAL)					
MD	MOTORIZED CONTROL DAMPER					
	ANGLED DROP IN DUCT					
	ANGLED RISE IN DUCT					
	CONDENSATE PIPING					
♦ ♦	SPACE RELATIVE PRESSURE RELATIONSHIP. LACK OF SYMBOL INDICATES NEUTRAL PRESSURE.					

MEC	HANICAL ABBREVIATIONS				
ACC	AIR COOLED CONDENSER	SHEET#			
AHU	AIR HANDLER UNIT				
A/C	AIR CONDITIONING	M0.1	M		
AFF	ABOVE FINISHED FLOOR	M1.1	M		
AP	ACCESS PANEL	M2.1	l v		
ATM.	ATMOSPHERE				
BHP	BRAKE HORSE POWER				
BTU	BRITISH THERMAL UNIT				
CFM	CUBIC FEET PER MINUTE	COO	RD		
DB	DRY BULB	EACH COI	NTRA		
dB	DECIBELS	EACH CONTRACTOR CONTRACTORS, EQUIPMENT, INSTALLED WITH AND/OR REINS			
DDC	DIRECT DIGITAL CONTROL  DIRECT DIGITAL CONTROL  EQUIPMENT				
DN.	DOWN	INSTALLED WITH			
EAT	ENTERING AIR TEMPERATURE				
EDB	ENTERING DRY BULB TEMPERATURE				
E/A	EXHAUST AIR	AS B	UI		
ESP	EXTERNAL STATIC PRESSURE				
EWB	ENTERING WET BULB TEMPERATURE	AS-BUILT ON THE (			
EWT	ENTERING WATER TEMPERATURE	RESPONSIE			
FLA	FULL LOAD AMPS	THE CONTRACT			
FPM	FEET PER MINUTE	SHALL BE RES			
FPS	FEET PER SECOND				
GALV	GALVANIZED	DIDE			
GPM	GALLONS PER MINUTE	BIDD			
НВ	HOSE BIBB	CONTRACTO REQUEST			
HP	HORSE POWER	RECORD P	RIOR		

HERTZ

LDB

NTS

OBD

0/A

PH.

PSI

PSIG

R/A

SF

S/A

SP

TDE

TEMP.

TSP

TYP.

VD

VFD

INCHES OF WATER GAUGE

LEAVING AIR TEMPERATURE

LEAVING DRY BULB TEMPERATURE

LEAVING WET BULB TEMPERATURE

LEAVING WATER TEMPERATURE

MOTORIZED DAMPER

NORMALLY CLOSED

NORMALLY OPEN

OPPOSED BLADE DAMPER

PRESSURE REDUCING VALVE

POUNDS PER SQUARE INCH

OWNER FURNISHED, CONTRACTOR INSTALLED

POUNDS PER SQUARE INCH (GAUGE PRESSURE)

NOT TO SCALE

OUTDOOR AIR

RETURN AIR

RELIEF HOOD

SUPPLY FAN

SUPPLY AIR

TEMPERATURE

VOLUME DAMPER

TYPICAL

STATIC PRESSURE

TOP DUCT ELEVATION

TOTAL STATIC PRESSURE

VARIABLE FREQUENCY DRIVE

ROOF TOP UNIT

PHASE

NECK

AL ABBREVIATIONS	MECHANICAL SHEET INDEX			
LED CONDENSER	SHEET#	DESCRIPTION		
DLER UNIT	140.4	MECHANICAL NOTES LESEND AND SHEET INDEV		
TIONING	M0.1	MECHANICAL NOTES, LEGEND, AND SHEET INDEX		
ISHED FLOOR	M1.1	MECHANICAL PLAN		
NEL	M2.1	MECHANICAL DETAILS & SCHEDULES		
PE				
RSE POWER				
ERMAL UNIT				
T PER MINUTE	COO	RDINATION NOTE:		
	EACH CON	NTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE		
	FOR COOR	RDINATING THE INSTALLATION OF HIS EQUIPMENT AND WORK E GENERAL CONTRACTOR AND WORK OF ALL OTHER		
TAL CONTROL	CONTRACTO	ORS, SUB CONTRACTORS AND TRADES. ANY AND ALL		
	INSTALLED	T, FIXTURES AND/OR MATERIAL REMOVED AND/OR WITHOUT THE PROPER COORDINATION SHALL BE REMOVED		
NR TEMPERATURE	AND/OR R	REINSTALLED AT NO ADDITIONAL EXPENSE TO THE OWNER.		
DRY BULB TEMPERATURE				
AIR	AS R	UILT NOTE:		
STATIC PRESSURE	ACD	OILI NOILI		
		CONDITIONS MAY NOT COINCIDE WITH THOSE INDICATED		

ONDITIONS MAY NOT COINCIDE WITH THOSE INDICATED ISTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE FOR DEMOLITION, BUT NOT LIMITED TO, ALL THE FOR DEMOLITION IN THE CONSTRUCTION DOCUMENTS. CTOR SHALL INSPECT THE EXISTING CONDITIONS AND ESPONSIBLE FOR DEMOLITION OF EXISTING WORK AS COMPLETE THE NEW WORK.

# NG NOTE:

SHALL REVIEW PLANS AND NOTES AND PROVIDE R INFORMATION (RFI) TO ARCHITECT/ENGINEER OF R TO FINALIZING BID.

## **EQUIPMENT COORDINATION NOTE:**

COORDINATION OF AIR CONDITIONING EQUIPMENT SHALL BE MADE WITH FINAL ARCHITECT AND STRUCTURAL DRAWINGS PRIOR TO EQUIPMENT INSTALLATION. IF CONFLICTS IN LOCATION OF THE AIR CONDITIONING EQUIPMENT WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS ARISE, CONTRACTOR SHALL NOTIFY ARCHITECT IN THE FORM OF AN RFI PRIOR TO INSTALLATION.



CITY OF GREENACRES 5800 MELALEUCA LANE GREENACRES, FL 33463

ROBLING ARCHITECTURE CONSTRUCTION AA26001115 EB28211 CGC1504260

ARCHITECT

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CONSULTANT

PROJECT TITLE FIRE RESCUE STATION

95 LOUNGE RENOVATION

SUBMITTAL HISTORY 06/11/25 CONSTRUCTION DOCS

THE DRAWINGS AND SPECIFICATIONS INCLUDED OR REFERENCED HEREIN SHALL BE USED AS A COMPLETE SET AND SHALL NOT BE SEPARATED INTO INDIVIDUAL SHEETS OR BY

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CONDITIONS ILLUSTRATED ON OTHER SHEET

IS THE CONTRACTORS RESPONSIBILITY TO VER T SUCH ITEMS ARE COORDINATED AND INCLUI IN ANY PRICING INFORMATION. FIELD VERIFY AND NOTIFY THE ARCHITECT OF ANY DEVIATIONS

FROM THE PLANS AND / OR SPEC

PRIOR TO CONSTRUCTION

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Angelo L. da Silva P.E. Florida Reg. No. 78400 DIGITAL SEAL

PROJECT NUMBER

585-2024-01/BCE 250061

SHEET TITLE

MECHANICAL NOTES. LEGEND, & SHEET

INDEX

TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

P.E., ON 11/21/2025.

Beacon Consulting Engineers

625 Casa Loma Blvd.. Suite 106 Boynton Beach, FL 33435

STATUES.

561 424 3270

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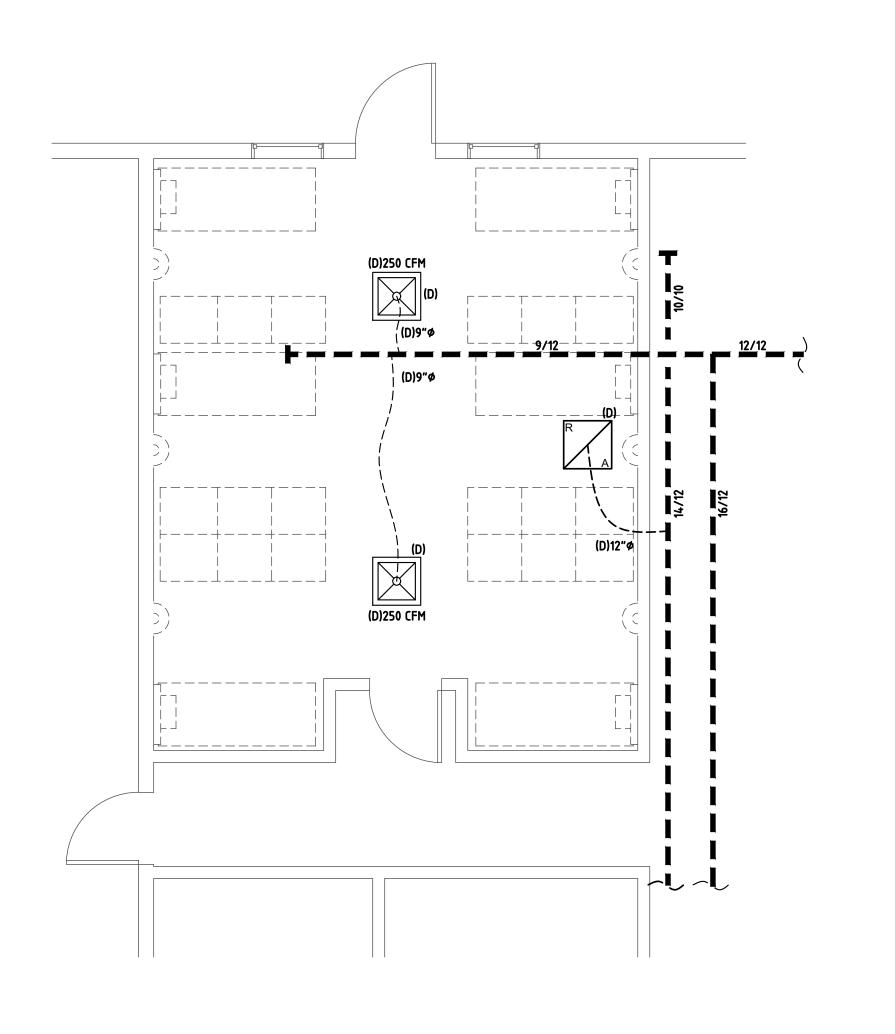
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AND SEALED BY ANGELO L. DA SILVA,

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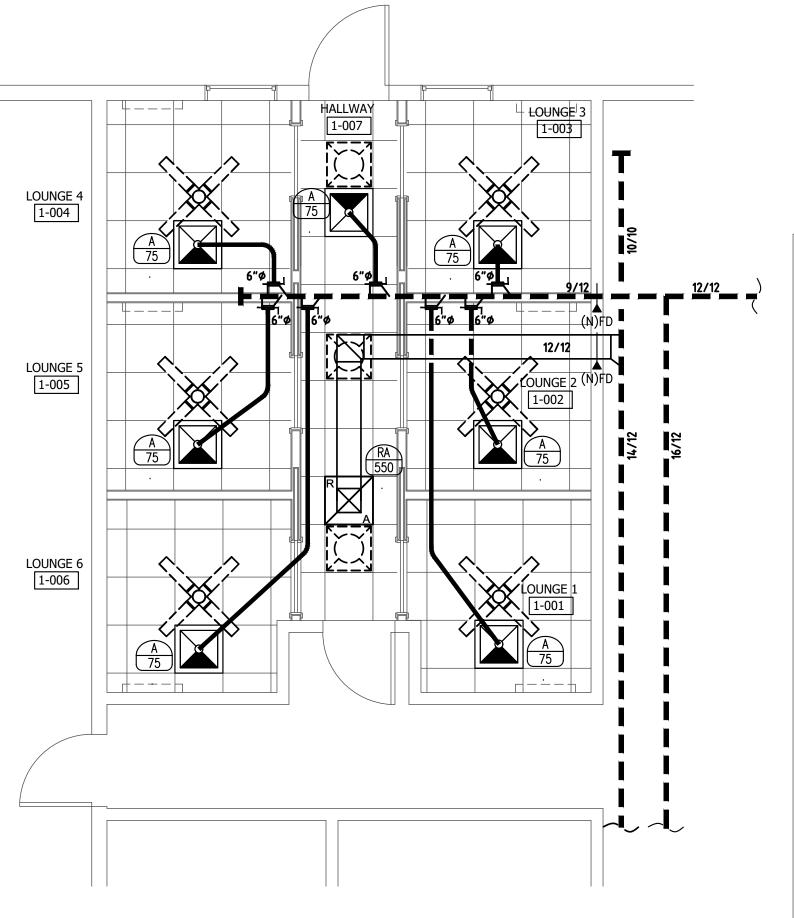
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**PERMIT SET** 06/10/2025



MECHANICAL DEMO PLAN

1/4" = 1'-0"





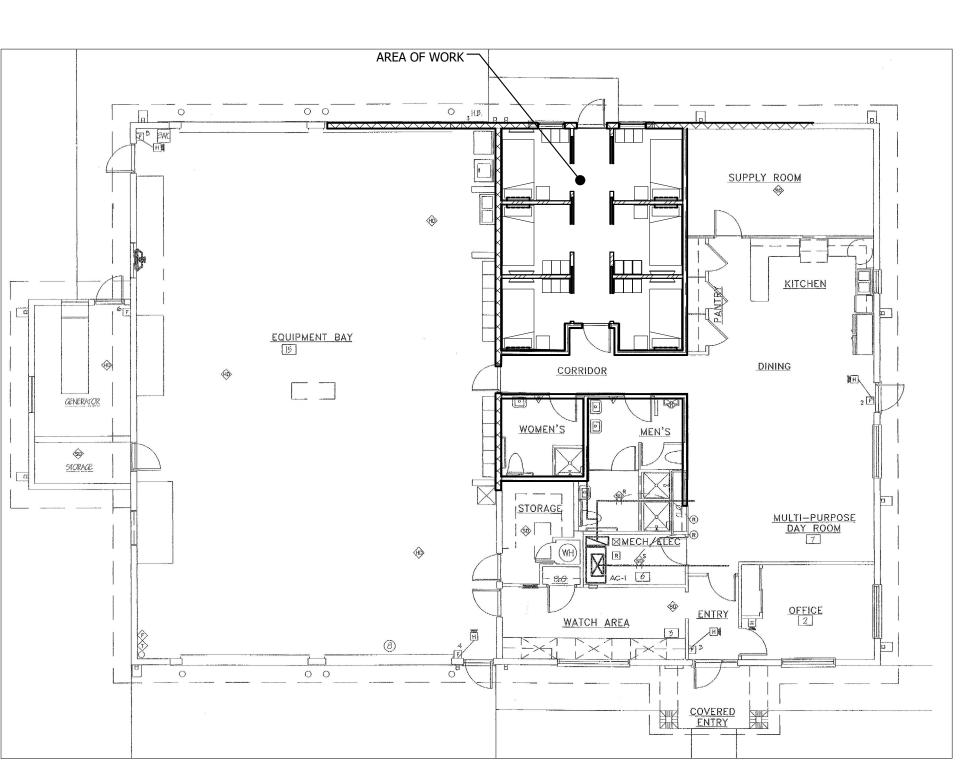


NEW SCOPE OF WORK KEY NOTES:

- 1 EXISTING OPEN LOUNGE AREA IS BEING DIVIDED INTO SIXES LOUNGES ROOM TO PROVIDE PRIVACY.
- 2 PROVIDE NEW SUPPLY GRILLE AND NEW SUPPLY FLEX DUCT AS
- 3 PROVIDE NEW FIRE DAMPER AS SHOWN. CONTRACTOR TO FIELD VERIFY THE EXISTENCE OF THE FIRE DAMPER PRIOR TO BIDDING AND TO PROVIDE NEW FIRE DAMPER IF THE EXISTING SUPPLY AND RETURN DUCT DO NOT HAVE FIRE DAMPERS AT WALL PENETRATION.
- 4 EXISTING BUILDING AIR CONDITIONING UNIT IS EXISTING AND WILL REMAIN. BUILDING OCCUPANCY IS EXISTING AND WILL REMAIN. EXISTING FRESH AIR REQUIREMENTS SHOULD REMAIN AND IT IS NOT TO BE AFFECTED WITH THIS RENOVATIONS.

DEMOLITION KEY NOTE:

1 REMOVE SUPPLY AND RETURN GRILLS DUCT TO TERMINATE AT MAIN TRUNK.



03 KEY PLAN
N.T.S.

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PERMIT SET 06/10/2025



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AA26001115 EB28211 CGC1504260

CONSULTANT

PROJECT TITLE

FIRE RESCUE STATION 95 LOUNGE RENOVATION

SUBMITTAL HISTORY

06/11/25 CONSTRUCTION DOCS

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ARCHITECT OF ANY DEVIATIONS FROM THE PLANS AND / OR SPECS PRIOR TO CONSTRUCTION

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PROJECT NUMBER

585-2024-01/BCE 250061 SHEET TITLE

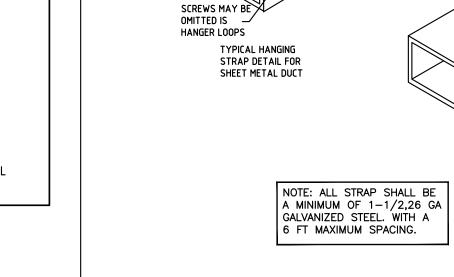
MECHANICAL PLAN

SHEET NUMBER

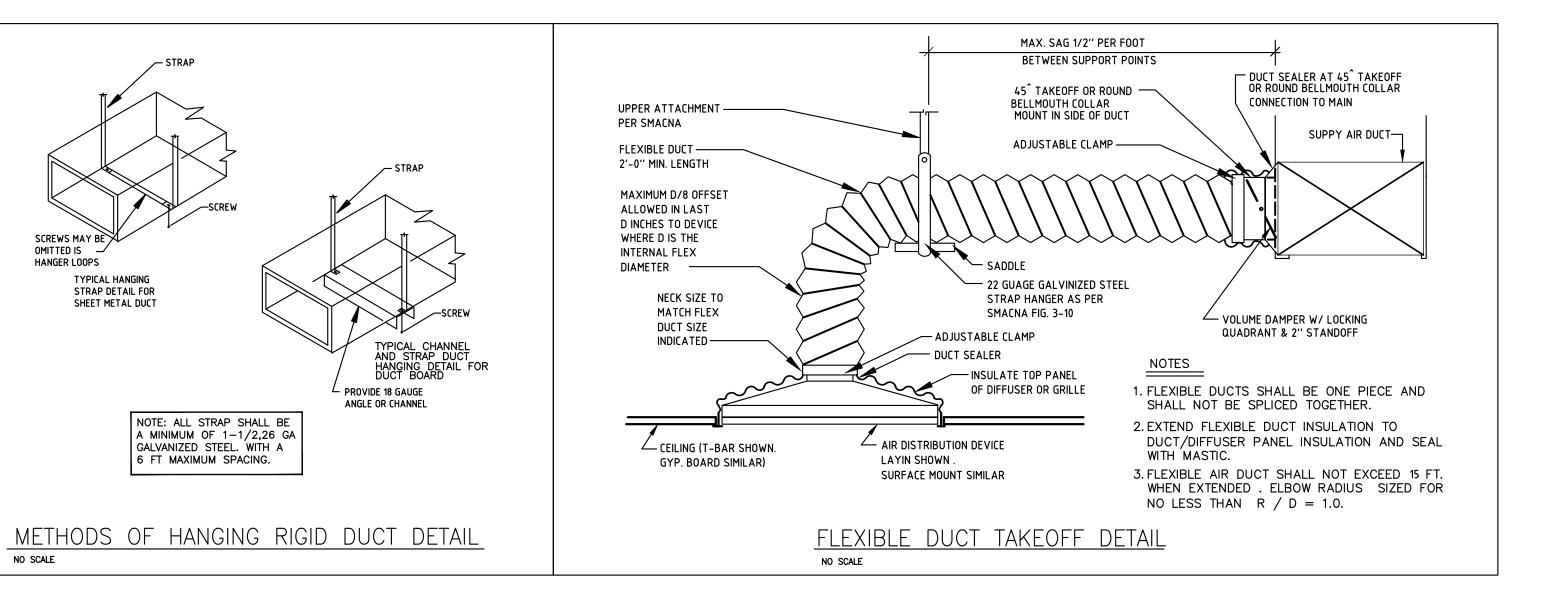
AIR DEVICE SCHEDULE								
UNIT TAG	MFGR & MODEL	CFM RANGE	FACE SIZE /MODULE	NECK	FRAME	THROW	REMARKS	
Α	TITUS TDC-AA	0–199	24x24 / 24x24	6 <b>"</b> ø	LAY-IN	3-4-9	INSULATE BACK OF DIFFUSER	
RA	TITUS 3 FL	-	24x24 / 24x24	22x22	SURFACE MTD.	-	EGGCRATE RETURN/TRANSFER GRILLE	

#### AIR TERMINAL NOTES:

- 1) AIR DEVICE SIZES & SCHEDULE AIRFLOW ARE AT THIS SCHEDULE UNLESS OTHERWISE NOTICED ON HVAC FLOOR PLANS.
- 2) BRANCH & OPTIONAL BRANCH DUCT SIZES ARE AT THIS SCHEDULE UNLESS OTHERWISE NOTICED ON HVAC FLOOR PLANS. 3) ALL AIR DEVICES INSTALLED IN INACCESSIBLY AND/OR DRYWALL CEILING SHALL BE PROVIDED WITH MANUAL OPPOSED BLADE DAMPERS.
- 4) ALL AIR DEVICES INSTALLED IN LAY-IN CEILING SHALL HAVE MANUAL VOLUME DAMPER INSTALLED IN THE BRANCH TAKE-OFF.
- 5) MAXIMUM PRESSURE DROP FOR ALL AIR DEVICES SHALL NOT EXCEED 0.10 IN. W.C.
- 6) ALL AIR DEVICES SHALL BE WHITE UNLESS OTHERWISE NOTICED. COORDINATE WITH ARCHITECT.
- 7) MAXIMUM NC FOR ALL DEVICES SHALL NOT EXCEED 25. 8) ALL AIR DEVICES SHALL BE ALUMINUM CONSTRUCTION UNLESS OTHERWISE NOTICED.
- 9) THROW VALUES ARE GIVEN FOR TERMINALS VELOCITIES OF 150, 100 & 50 FPM RESPECTIVELY.
- 10) COORDINATE BORDER TYPE FOR LINEAR GRILLES WITH OWNER/ARCHITECT.
- 11) UNLESS INDICATED OTHERWISE, LAY-IN TYPE REGISTERS & DIFFUSERS INSTALLED IN GYPSUM BOARD CEILINGS SHALL BE PROVIDED WITH RAPID MOUNT FRAME, MODEL TITUS TRM OR EQUAL.



6 FT MAXIMUM SPACING.





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INFORMATION CONTAINED ON ONE SHEET MAY SPECIFICALLY APPLY TO INFORMATION OR CONDITIONS ILLUSTRATED ON OTHER SHEETS.

FROM THE PLANS AND / OR SPECS PRIOR TO CONSTRUCTION

IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT SUCH ITEMS ARE COORDINATED AND INCLUDED IN ANY PRICING INFORMATION. FIELD VERIFY AND NOTIFY THE ARCHITECT OF ANY DEVIATIONS

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Angelo L. da Silva P.E. Florida Reg. No. 78400

DIGITAL SEAL

PROJECT NUMBER

585-2024-01/BCE 250061

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

PERMIT SET.

06/10/2025

Beacon Consulting Engineers 625 Casa Loma Blvd., Suite 106 Boynton Beach, FL 33435 561 424 3270

STATUES.

Mechanical • Plumbing • Electrical • Fire Protection Consulting Engineering

TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM

BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE,

ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

THIS ITEM HAS BEEN DIGITALLY SIGNED

AND SEALED BY ANGELO L. DA SILVA,

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

P.E., ON 11/21/2025.