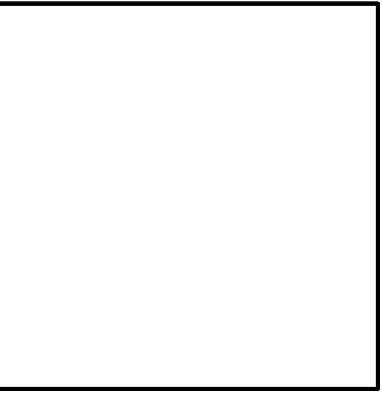


# JERK & LIME RESTAURANT & BAR

182 NW 5TH AVE

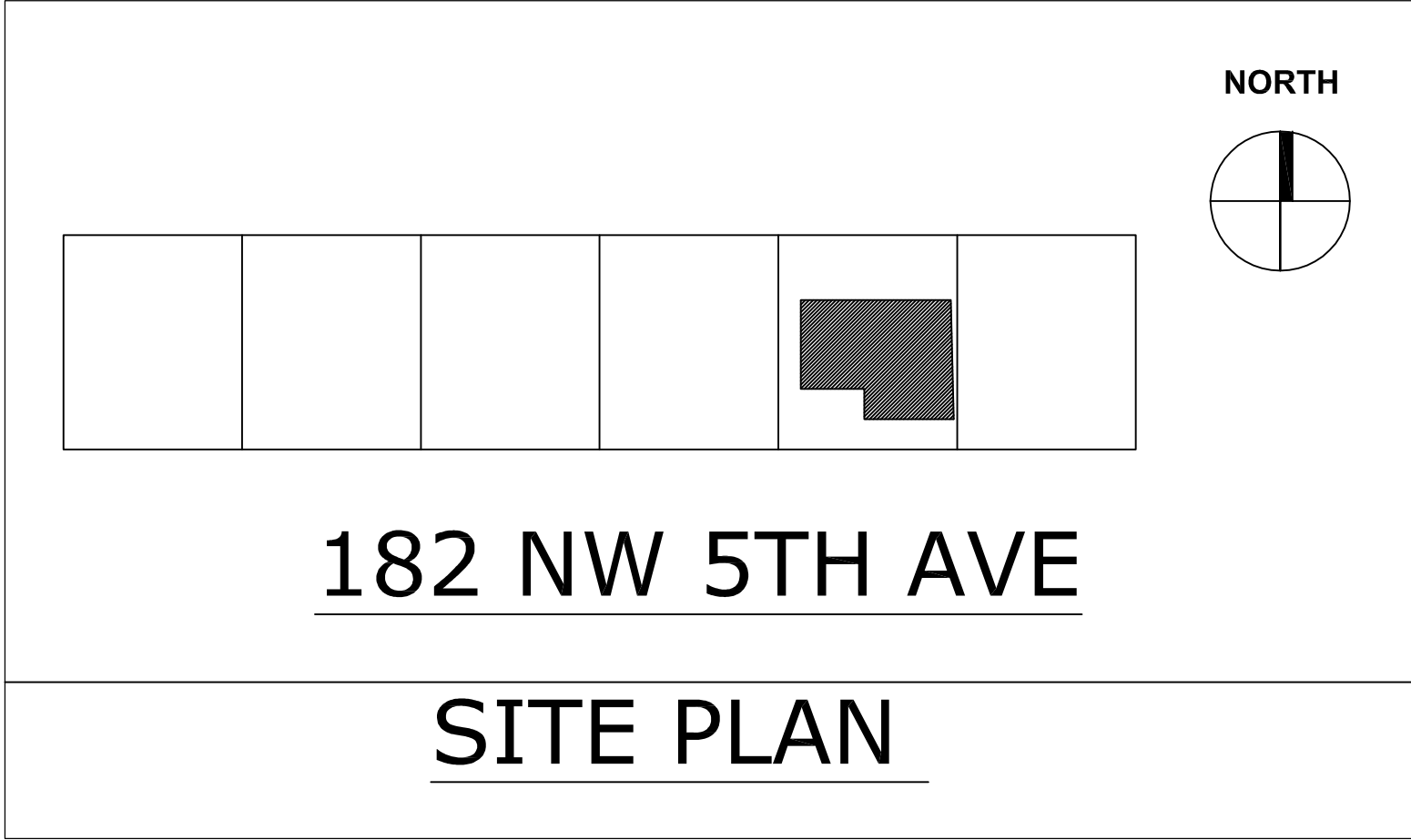
DELRAY BEACH, FL 33444

REVISIONS	BY
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JERK & LIME RESTAURANT & BAR  
 182 NW 5TH AVE  
 DELRAY BEACH, FL 33444  

 FABIAN G. BOGLE ARCHITECTURE, INC. SHALL VERIFY ALL CONDITIONS & CONDITIONS OF WORK WITH THE PLANS & SPECIFICATIONS SHALL TO VERIFY THE WORK SHALL BE IN ACCORDANCE WITH THE PLANS & SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. ALL OF THE WORK SHALL BE DONE IN ACCORDANCE WITH THE LOCAL BUILDING CODES AND ALL APPLICABLE REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.



mtach3401.8.2.3 GROUP R3 OCCUPANCIES SHALL COMPLY WITH THE FOLLOWING:

3401.8.2.3.1 WHEN ADDITIONS OR ALTERATIONS INCREASING THE FLOOR AREA, ARE MADE TO AN EXISTING BUILDING AND THE ADDITION CONSTITUTES 25 PERCENT OR MORE OF THE AREA OF THE EXISTING BUILDING, THE ADDITION SHALL BE MADE TO COMPLY WITH ALL THE REQUIREMENTS OF THE CODE AND THE EXISTING BUILDING SHALL BE MADE TO COMPLY WITH THE FOLLOWING:

- IMPACT RESISTANCE DEVICES HAVING A VALID NOA SHALL BE INSTALLED AT OPENINGS TO PROVIDE PROTECTION AGAINST STORMS.
- CORNERS OF BUILDINGS OF MASONRY CONSTRUCTION SHALL BE CHECKED FOR THE TOWNS. IF TIE DOWNS ARE NOT FOUND IN CORNERS, TESTING SHALL BE PERFORMED TO LOCATE TIE DOWNS IN ALL WALLS. PROPER INSTALLATION OF TIE DOWNS SHALL BE DONE AT 20 FOOT INTERVALS AND AT EACH CORNER EXCEPT THAT INTERIOR TIE DOWNS MAY BE PROVIDED IN EACH SIDE NOT LESS THAN 2 FEET ON EACH SIDE OF EACH CORNER.
- TIE DOWN REFERS TO THE ANCHORAGE FROM THE FOUNDATION TO THE TIE BEAM AND SHALL PROVIDE THE EQUIVALENT STRENGTH OF A VERTICAL #5 REINFORCING BAR PROPERLY ATTACHED TO THE FOUNDATION AND THE BEAM ENCASED IN CONCRETE OR MORTAR AND LAPPED A MINIMUM OF 30 INCHES OR OTHERWISE SPLICED IN A MANNER WHICH WILL DEVELOP THE FULL STRENGTH OF THE BAR.
  - 2.1 ALTERNATE METHODS OF PROVIDING ANCHORAGE OF EQUIVALENT STRENGTH TO THAT DESCRIBED IN 2.1 MAY BE USED WHERE DESIGN CALCULATIONS WHICH ADMIT RATIONAL ANALYSIS ARE SUBMITTED BY A REGISTERED ENGINEER OR ARCHITECT PROFICIENT IN STRUCTURAL DESIGN.
- ROOF ANCHORAGE SHALL BE CHECKED AT ALL WALLS WHERE THE ADDITION CONNECTS TO THE EXISTING BUILDING. IF MAJOR DEFICIENCIES ARE FOUND AND THE ANCHORAGE IS NOT IN COMPLIANCE WITH THE MINIMUM REQUIREMENTS OF THE CODE, THE ROOF ANCHORAGE SHALL BE CHECKED FOR ALL THE EXISTING ROOF. MINIMUM ANCHORAGE SHALL BE PROVIDED TO EACH MEMBER BEARING ON THE EXTERIOR WALLS.
- PERMANENT ROOF BRACING SHALL BE PROVIDED AT ALL GABLE ENDS.
- G.F.C.I. OUTLETS SHALL BE INSTALLED WHERE REQUIRED BY THE CODE.
- SMOKE DETECTORS SHALL BE INSTALLED WHERE REQUIRED BY THE CODE.

**ADDITIONAL CODE REQUIREMENTS FOR ADDITIONS**

ALL ADDITIONS TO EXISTING RESIDENCES OVER 25 PERCENT OF THE ORIGINAL FLOOR AREA SHALL COMPLY WITH FBC 2020 SECTION 3401.8 REGARDING BUT NOT LIMITED TO ADDITIONAL TIE DOWN, WINDOW, AND ELECTRICAL REQUIREMENTS FOR NEW ADDITIONS. (SEE ABOVE) THE GENERAL CONTRACTOR AND OWNER SHALL READ CODE SECTION AND ACKNOWLEDGE BY SIGNING BELOW.

OWNER \_\_\_\_\_ GENERAL CONTRACTOR \_\_\_\_\_

INDEX OF DRAWING	
SHEET #	DESCRIPTION
T-1	TITLE SHEET
GN	GENERAL NOTES
D-1	DEMO SHEET
A1	1ST FLOOR
A2	ELEVATION
M-1	MECHANICAL
M-2	MECHANICAL
E-1	ELECTRICAL
E-2	ELECTRICAL
P-1	PLUMBING
S-1	STRUCTURAL
ADDRESS CRITERIA	
APPROVED NUMBERS OR ADDRESS SHALL BE PROVIDED FOR ALL NEW BUILDINGS SO THAT NUMBERS IS PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROADWAY FRONTING THE PROPERTY. THE NUMBERS SHALL CONTRAST WITH THERE BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS. NUMERALS SHALL NOT LESS THAN THREE INCHES IN HEIGHT FOR RESIDENTIAL BUILDINGS, STRUCTURES AND AT LEAST SIX INCHES IN HEIGHT FOR ALL BUILDINGS, STRUCTURES. FPFC 3-7.1	

FLORIDA BUILDING CODE (FBC) 2020															
OCCUPANCY RESIDENTIAL R2 BUILDING HEIGHT 22'-0" + / - CONSTRUCTION TYPE: VI UNPROTECTED, UNSPRINKLED MIN. INT. FINISH CLASS "B"															
GENERAL NOTES	STRUCTURAL LOADS														
ALL WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE 2020 BUILDING CODE AND ALL OTHER LOCAL APPLICABLE RULES AND REGULATIONS.  SUBCONTRACTORS SHALL VERIFY ALL CONDITIONS, DETAILS AND DIMENSIONS BEFORE PROCEEDING WITH THE WORK THAT SHALL BE NOTIFIED OF ANY DISCREPANCIES.  DO NOT SCALE DRAWINGS  ALL WORK IN QUESTION INCLUDING MATERIALS FINISHES AND COLORS SHALL BE COORDINATED WITH THE PROJECT MANAGER.  MECHANICAL AND ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING DRAWINGS AND OBTAINING THEIR RESPECTIVE PERMITS.  NUMBER SHALL BE DISPLAYED TO BE EASILY SEEN FROM STREET IN COLORS THAT CONTRAST TO BLDG.	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">FLOORS @ SLEEPING AREAS</td> <td style="width: 50%;">##PSF LIVE ##PSF DEAD</td> </tr> <tr> <td>FLOORS @ NON SLEEPING AREA -</td> <td>##PSF LIVE ##DEAD</td> </tr> <tr> <td>BALCONIES -</td> <td>##PSF LIVE ##PSF DEAD</td> </tr> <tr> <td>DECKS</td> <td>##PSF LIVE ##PSF DEAD</td> </tr> <tr> <td>STAIRS</td> <td>##PSF LIVE ##PSF DEAD</td> </tr> <tr> <td>ROOF</td> <td>W/ FIBERGLASS SHINGLES 20PSF LIVE 17PSF DEAD</td> </tr> <tr> <td>ROOF</td> <td>W/ TILE 20PSF LIVE 25PSF DEAD</td> </tr> </table>	FLOORS @ SLEEPING AREAS	##PSF LIVE ##PSF DEAD	FLOORS @ NON SLEEPING AREA -	##PSF LIVE ##DEAD	BALCONIES -	##PSF LIVE ##PSF DEAD	DECKS	##PSF LIVE ##PSF DEAD	STAIRS	##PSF LIVE ##PSF DEAD	ROOF	W/ FIBERGLASS SHINGLES 20PSF LIVE 17PSF DEAD	ROOF	W/ TILE 20PSF LIVE 25PSF DEAD
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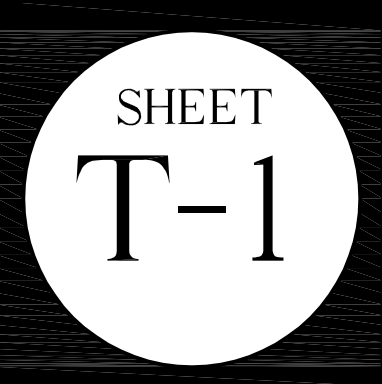
**ARCHITECT/ENGINEER INFO HERE**

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DATE: **06-18-2022**

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

PROJECT:



# GENERAL NOTES

## A. GENERAL REQUIREMENTS

1. THE MINIMUM STANDARD FOR THIS INSTALLATION SHALL BE THE FLORIDA STANDARD MECHANICAL CODE. THE INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS AND DIRECTIONS OF THE GOVERNING AUTHORITY.
2. THE SUBCONTRACTOR FOR EXECUTING THE WORK UNDER THIS HEADING SHALL BE KNOWN AS THE MECHANICAL CONTRACTOR (PLUMBING OR H.V.A.C. CONTRACTOR IF SEPARATELY CONTRACTED ) AND SHALL BE REFERRED TO IN THIS SECTION AS "THIS CONTRACTOR".
3. THIS CONTRACTOR SHALL AT HIS OWN EXPENSE OBTAIN ALL NECESSARY PERMITS, FEES AND REGULATIONS, ANYTHING HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS TO THE CONTRARY NOT WITHSTANDING.
4. THE MECHANICAL DRAWINGS ARE DIAGRAMMATICAL AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF THE MECHANICAL WORK THE MECHANICAL DRAWINGS SHOULD BE FOLLOWED AS CLOSELY AS POSSIBLE BUT EXACT LOCATION AND ARRANGEMENT OF PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS.
5. THE PLANS AND THE SPECIFICATIONS ARE INTENDED TO INCLUDE ALL WORK AND MATERIALS REQUIRED FOR COMPIATION OF THE WORK OF ANY ITEM OF THE WORK ANY ITEM OF MATERIALS, LABOR OR DETAIL REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AND OMITTED FROM EITHER THE PLANS OR SPECIFICATIONS, OR BOTH OBVIOUSLY UNDERSTOOD.

AFTER THE CONTRACT IS AWARDED, THIS CONTRACTOR SHALL SUBMIT FOLDERS OF MECHANICAL EQUIPMENT AND SHOP DRAWINGS OF SPECIAL EQUIPMENT TO THE ARCHITECT AND PROJECT MANGER FOR APPROVAL PRIOR TO BEGINNING WORK.

ALL WORK SHALL BE PERFORMED IN THE BEST WORKMAN LIKE MANNER BEFORE SKILLED MECHANICS A COMPETENT SUPERVISORS SHALL BE EMPLOYED BY THIS CONTRACTOR TO DIRECT THE PROPER AND PROMPT EXECUTION OF THE WORK.

THIS CONTRACTOR SHALL FURNISH THE OWNER WITH ALL FINAL CERTIFICATES OF INSPECTION.

PROVIDE A WRITTEN GUARANTEE TO THE OWNER TO REPLACE AT NO COST TO THE OWNER

THIS SECTION OF THE SPECIFICATIONS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE SYSTEM.

PROVIDE STANDARD 5 YEAR GUARANTEE ON AIR CONDITIONING COMPRESSORS AS INCLUDED BY THE MANUFACTURE.

### SCOPE OF WORK

THE H.V.A.C WORK INTENDED UNDER THIS SPECIFICATION AND SHOWN OR INDICATED ON DRAWINGS HERETOFORE MENTIONED, SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, SPECIAL-TIES AND SERVICES, TOGETHER WITH SUPERVISION, TOOLS, SCAFFOLDING, TRANSPORTATION AND TEMPORARY CONSTRUCTION NECESSARY FOR THE COMPLETE AND TESTED AND TURNED OVER TO THE OWNER IN PROPER AND SATISFACTORY OPERATING CONDITION, BRIEFLY DESCRIBED AS FOLLOWS .

ALL CONDITIONING UNITS, EXHAUST FANS, AND ELECTRIC RESISTANT HEATERS

ALL DUCTWORK, FIRE DAMPERS, PLENUMS, FILTERS, TURNING VANS, SPLITTERS, DIFFUSERS, REGISTERS AND GRILLES.

REFRIGERANT, REFRIGERANT PIPE INSULATION.

ALL REQUIRED CONTROLS AND PIPE INSULATION.

ALL NECESSARY MISCELLANEOUS METAL WORK HARDWARE MOUNTINGS, HANGARS VIBRATION ISOLATORS, CONNECTIONS, SLEEPERS, ETC. REQUIRED TO PROPERLY INSTALL THE SYSTEM.

THIS CONTRACTOR SHALL CAREFULLY VERIFY ALL MEASUREMENTS AT THE SITE, DETERMINE THE EXACT LOCATION OF ALL CHASES AND OPENINGS REQUIRED BY HIS WORK AND SHALL FURNISH AND SET ALL SLEEVES, INSERTERS, AND HANGERS AS REQUIRED FOR THE WORK HEREIN.

THIS CONTRACTOR SHALL START UP LUBRICATE AND ADJUST ALL EQUIPMENT TO OPERATE SMOOTHLY AND QUIETLY AND SHALL SET ALL OPERATING AND SAFETY CONTROLS AT THE PROPER POINT. THE SYSTEM SHALL BE OPERATED FOR A MINIMUM OF 24 HOURS AND A COMPLETE PERFORMANCE CHECK OF THE SYSTEM SHALL BE MADE AT THIS TIME ALL NECESSARY BALANCING, ADJUSTMENT, AND CHECKING OF THE SYSTEM SHALL BE ACCOMPLISHED.

THE AIR DISTRIBUTION SYSTEM SHALL BE BALANCED TO PROVIDE EVEN TEMPERATURES THROUGHOUT THE SPACE AND NOISELESS, DRAFT LESS AIR MOVEMENTS USING THE DESIGN C.F.H AIR QUANTITIES AS A BASE GUIDE.

ADDITIONAL FINAL BALANCING AND ADJUSTMENTS WHICH MAY BE REQUIRED AFTER OCCUPANCY SHALL BE FURNISHED UNDER THE ONE YEAR GUARANTEE.

### SPECIFIC REQUIREMENTS

#### BASIC MATERIALS

ALL AIR CONDITIONING SUPPLY AND RETURN AIR DUCTWORK SHALL BE FIBERGLASS. FIBERGLASS DUCT BOARD SHALL BE AN R-60 MINIMUM. THE DUCT BOARD SHALL BE UL CLASS 1 RATED AND LABELED THE PRODUCT SHALL BE MADE OF GLASS FIBERS, WITH FOIL REINFORCED FLAME RETARDANT VAPOR BARRIER ON THE EXTERIOR SURFACE. ALL SYSTEM JOINTS SHALL BE STAPLED WITH FLARE DOOR STAPLES ON 2' CENTERS AND JOINT SEALED WITH GLASS MESS MEMBRANE CLOTH AND SEALED WITH MASTIC.

CONTINUE >>>>>>>>

THE DUCTWORK SYSTEM SHALL BE REINFORCED WHEN NECESSARY, AND INSTALLED AS OUTLINED IN THE IN TEST SMACNA MANUAL. ALL BOARDS TAPES AND MASTIC SHALL APPROVED AND AS MANUFACTURED BY OWES-CORNING OR AN EQUAL.

REFRIGERANT PIPING SHALL BE TYPE "L" NEW COPPER SIZE AS DESCRIBED UNDER UNDER THE CONDENSING UNITS EQUIPMENT DESCRIPTION OR AS RECOMMENDED BY ASHRAE.

REFRIGERANT SUCTION LINES ABOVE THE FIRST FLOOR SLAB SHALL BE INSULATED WITH WITH ONE A HALF (1 1/2") INCH THICK SECTIONALIZED GLASS FIBER WITH FACTORY APPLIED FINISH AND JOINT LAP SEAL, BUT JOINTS SHALL BE CAREFULLY SEALED REFRIGERANT SUCTION LINES BELOW SLAB AND GRADE SHALL BE INSULATED WITH THREE QUARTER INCH THICK FOAMED PLASTIC WITH TIGHT SEAL JOINTS. COORDINATE SIZE OF PVC PIPE ENCASEMENT BELOW SLABS TO PASS INSTALLATION AND PIPES.

THERMOSTATS SHALL HAVE LOW VOLTAGE 'HEAT -OFF-COOL' AND FAN' AUTO -ON' SETTING THEY SHALL PROVIDE FOR SINGLE COOLING AND SINGLE STAGE FOR HEATING.

EXHAUST AIR DUCTWORK GALVANIZED SHEET STEEL SMACNA STANDARDS.

CONDENSATE LINES SHALL BE SCHEDULE 40 PVC TRAP AS REQUIRED.

ALL SUPPORT PLENUMS SHALL BE FIELD CONSTRUCTED WITH 3/ 4" THICK PLYWOOD TO FORM A SEALED NEAT COMPARTMENT OF HEIGHT REQUIRED TO ALLOW FREE ENTRY OF RETURN AIR THOUGH GRILLES OR DUCTS AS SHOWN ON THE PLANS.

ALL MOTORIZED EQUIPMENT LOCATED IN THE ATTIC SPACES OR OTHER AREAS SUBJECT TO VIBRATION ATTENUATION SHALL BE MOUNTED ON OR SUSPENDED FROM VIBRATION ISOLATORS.

RUN 4" GALVANIZED SHEET METAL UP TO ATTIC SPACE FOR DRYER EXHAUSTS JOIN BOTH BRANCH RUNS AND RUN UP TO ROOF CAP. PROVIDE ROOF CAP TO ROOFING CONTRACTOR FOR PROPER INSTALLATION PROVIDE 4" METAL GAUL'D DUCT TO WALL VENT W/ BIRD SCREE.

## GENERAL REQUIREMENTS

THE MINIMUM STANDARD FOR THIS INSTALLATION SHALL BE THE NATIONAL ELECTRICAL CODE THE INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODE, REGULATIONS & DIRECTIVES OF THE GOVERNING AUTHORITY.

THE SUBCONTRACTOR FOR EXECUTING THE WORK UNDER THIS HEADING SHALL BE KNOWN AS THE ELECTRICAL CONTRACTOR AND SHALL BE REFEREED TO IN THIS SECTION AS "THIS CONTRACTOR".

THIS CONTRACTOR SHALL AT HIS OWN EXPENSE OBTAIN ALL NECESSARY PERMITS, FEES AND LICENSES AND COMPLY WITH ALL LOCAL AND STATE LAWS, ORDINANCES AND REGULATIONS, ANYTHING HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS TO THE CONTRARY NOT WITHSTANDING.

THE ACCOMPANYING DRAWINGS SHOW THE ARRANGEMENT, GENERAL DESIGN AND EXTENT OF THE WORK AND ARE MORE OR LESS DIAGRAMMATICAL WITH FIXTURES IN THEIR GENERAL LOCATION UNLESS SPECIFICALLY NOTED. VERIFY EXACT REQUIREMENTS AND LOCATIONS PRIOR TO INSTALLATION.

THE PLANS AND SPECIFICATIONS ARE INTENDED TO INCLUDE ALL WORK & MATERIALS REQUIRED FOR THE COMPLETION OF THE WORK ANY ITEM OF MATERIALS, LABOR OR DETAIL REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AND OMITTED FROM EITHER THE PLAN PLANS OR SPECIFICATIONS, BUT OBVIOUSLY UNDERSTOOD, SHALL BE FURNISHED AS PART OF THE CONTRACT WITH ADDITIONAL COST.

ALL WORK SHALL BE PERFORMED IN THE BEST WORKMANLIKE MANNER BY SKILLED ELECTRICIANS. A COMPETENT SUPERVISOR SHALL BE EMPLOYED BY THIS CONTRACTOR TO DIRECT THE PROPER AND PROMPT EXECUTION OF THE WORK.

THIS CONTRACTOR SHALL FURNISH THE OWNER WITH ALL FINAL CERTIFICATES OF INSPECTION.

PROVIDE A WRITTEN GUARANTEE TO THE OWNER TO REPLACE AT NO ADDITIONAL COST ANY DEFECTIVE WORKMANSHIP OR MATERIAL OCCURRING IN THE WORK REQUIRED UNDER THIS SECTION OF THE SPECIFICATIONS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE ACCEPTANCE OF THE SYSTEM.

### SCOPE OF WORK

THE ELECTRICAL WORK INTENDED UNDER THIS SPECIFICATION AND SHOWN OR INDICATED ON DRAWINGS HERE TO FORCE MENTIONED, SHALL CONSIST OF FURNISHING ALL LABOR MATERIALS. EQUIPMENT, SPECIAL-TIES AND TEMPORARY CONSTRUCTION NECESSARY FOR THE COMPLETE INSTALLATION OF THE FOLLOWING ELECTRICAL WORK EXACTLY AS SPECIFIED, ALL COMPLETE AND TESTED AND TURNED OVER TO THE OWNER IN PROPER AND SATISFACTORY OPERATING CONDITION BRIEFLY DESCRIBED AS FOLLOWS.

COMPLETE SERVICE AND DISTRIBUTION SYSTEM, INCLUDING ALL CONDUCTORS, CONDUCTS, WIRING, WIRING DEVICES AND ACCESSORIES.

ALL PROTECTION AND CONTROL DEVICES INCLUDING SWITCHES, PANELS, CIRCUIT BREAKERS, GROUND FAULT PROTECTORS AND DISCONNECT SWITCHES.

ALL LIGHTNING FIXTURES AND LAMPS.

THIS CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.

THIS CONTRACTOR'S SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING, NO COORDINATE ALL WORK, INCLUDING TEMPORARY POWER AND INSPECTIONS WITH UTILITY COMPLY WITH EXISTING CONDITIONS.

THIS CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.

THIS CONTRACTOR'S WORK WILL BEGIN WHERE UTILITY COMPANY'S WORK ENDS. COORDINATE ALL WORK, INCLUDING TEMPORARY POWER AND INSPECTIONS WITH UTILITY COMPANY.

### SPECIFIC REQUIREMENTS

ALL CONDUCTORS SHALL BE COPPER AND NO SMALLER THAN #12 AWG. INSULATION SHALL BE THW OR BETTER.

ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.

ALL EQUIPMENT AND DEVICES SHALL BE GROUNDED AS PER LOCAL CODE.

ALL OUTSIDE RECEPTACLES AND RECEPTACLES ADJACENT TO PLUMBING FIXTURES SHALL HAVE GROUND - F FAULT INTERRUPTION.

ALL DEVICES, SUCH AS AIR CONDITIONERS AND ELECTRIC HEAT, SHALL BE PROVIDED WITH SEPARATE DISCONNECTION AS PER CODE.

ALL OVERHEAD SERVICES SHALL BE PROVIDED WITH AN APPROVED LIGHTING ARRESTOR SYSTEM N ACCORDANCE WITH GOVERNING REGULATIONS AND CODE.

ALL EMERGENCY LIGHTS ARE SELF - CONTAINED WITH BATTERY & CHARGER CIRCUIT FROM LINE SIDE OF LIGHTING SWITCH.

ALL ELECTRICAL PANELS SHALL HAVE A DIRECTORY ATTACHED TO INSIDE OF DOOR SHOWING ITEM(S) SERVED BY BREAKER.

HOME-RUNS ARE NOT SHOWN. CONTRACTOR SHALL INSTALL IN MOST ECONOMICAL WAY IN ACCORDANCE WITH CODE.

PANEL CIRCUITRY AS DENOTED IN SCHEDULE IS IN NUMERICAL SEQUENCE. CONTRACTOR SHALL ARRANGE FOR BEST BALANCE.

## GENERAL REQUIREMENTS

THE MINIMUM STANDARD FOR THIS INSTALLATION SHALL BE THE FLORIDA BUILDING CODE. THE INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS AND DIRECTIVES OF THE GOVERNING AUTHORITY.

THE SUBCONTRACTOR FOR EXECUTING THE WORK UNDER THIS HEADING SHALL BE KNOWN AS THE MECHANICAL CONTRACTOR ( PLUMBING OR HVAC CONTRACTOR IF SEPARATELY CONTRACTED ) AND SHALL BE REFEREED TO IN THIS SECTION AS "THIS CONTRACTOR".

THIS CONTRACTOR SHALL AT HIS OWN EXPENSE SHALL OBTAIN ALL NECESSARY PERMITS, FEES AND LICENSES AND COMPLY WITH ALL LOCAL AND STATE LAWS, ORDINANCES AND REGULATIONS, ANYTHING HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS TO THE CONTRARY NOT WITHSTANDING.

THE ACCOMPANYING DRAWINGS SHOW THE ARRANGEMENT, GENERAL DESIGN AND EXTENT OF THE WORK AND MORE OR LESS DIAGRAMMATICAL WITH EQUIPMENT IN ITS GENERAL LOCATION UNLESS SPECIFICALLY NOTED.

THE DRAWINGS ARE NOT INTENDED TO SCALED FOR ROUGHING IN, NOR TO SERVE AS SHOP DRAWINGS. DRAWINGS ARE REQUIRED FOR THE PURPOSE AND HAVE TO MADE FROM FIELD MEASUREMENTS, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO PREPARE SUCH DRAWINGS.

THE PLANS AND SPECIFICATIONS ARE INTENED TO INCLUDE ALL WORK AND MATERIALS REQUIRED FOR COMPLETION OF THE WORK ANY ITEM OF MATERIALS, LABOR OR DETAIL REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK OMITTED FROM EITHER THE PLANS OR SPECIFICATIONS, OR BOTH, BUT OBVIOUSLY UNDERSTAND, SHALL BE FURNISHED AS A PART OF THE CONTRACT WITHOUT ADDITIONAL COST.

AFTER THE CONTRACT IS AWARDED THIS CONTRACTOR SHALL SUBMIT FOLDERS OF FIXTURES AND EQUIPMENT TO THE ARCHITECT AND/ OR PROJECT MANAGER FOR HIS APPROVAL BEFORE EQUIPMENT IS PURCHASED.

ALL WORK SHALL BE PERFORMED IN THE BEST WORKMANLIKE MANNER BY SKILLED MECHANICS. A COMPETENT SUPERVISOR SHALL BE EMPLOYED BY THIS CONTRACTOR TO DIRECT THE PROPER AND PROMPT EXECUTION OF WORK.

THIS CONTRACTOR SHALL FURNISH THE OWNER WITH ALL FINAL CERTIFICATES OF INSPECTION.

THIS CONTRACTOR SHALL AT NO ADDITIONAL COST TO THE OWNER REPLACE ANY MATERIALS THAT DEVELOP DEFECTS ( EXCEPT FROM ORDINARY WEAR AND TEAR ) WITHIN ONE YEAR FROM THE DATE OF COMPLETION AND ACCEPTANCE OF THIS INSTALLATION.

### SCOPE OF WORK

THE PLUMBING WORK INTENDED UNDER THIS SPECIFICATION AND SHOW OR INDICATED ON DRAWINGS HERETOFORE MENTIONED, SHALL CONSIST OF FURNISHING ALL LABOR MATERIALS, EQUIPMENT, SPECIAL-TIES AND SERVICES, TOGETHER WITH SUPERVISION, TOOLS, SCAFFOLDING, TRANSPORTATION AND TEMPORARY CONSTRUCTION NECESSARY FOR THE COMPLETE INSTALLATION OF THE FOLLOWING PLUMBING AND DRAINAGE WORK EXACTLY AS SPECIFIED. ALL COMPLETED AND TESTED AND TURNED OVER TO THE OWNER IN PROPER AND SATISFACTORY OPERATING CONDITION BRIEFLY DESCRIBED AS FOLLOWS:

- A. SANITARY SOL, WASTE AND VENT SYSTEM.
- B. DOMESTIC HOT AND COLD WATER SYSTEMS.
- C. CONDENSATE DRAINAGE SYSTEM TO DRYWALLS.
- D. INSULATION AND PAINTING FOR EQUIPMENT AND PIPING.
- E. ALL PLUMBING FIXTURES, COMPLETE WITH ALL TRIM, TRAPS, STOP VALVES, SUPPLIES AND ESCUTCHEONS.

ALL PIPING SYSTEM WILL EXTENDED TO A POINT 6' -0" FROM THE BUILDING PIPING BEYOND THIS POINT SHALL BE CONTINUED BY THE SITE ENGINEER.

C. SEPTIC REQUIREMENTS

### BASIC MATERIALS

SANITARY SOL, WASTE AND VENT PIPING - SCHEDULE 40 PVC -DWV PIPE AND FITTINGS. DOMESTIC WATER PIPING -TYPE "L" HARD COOPER TUBE OR CPVC AND FITTINGS WITH 95 - 5 SOLDER

CONDENSATE DRAIN IN PIPE -SCHEDULE 40, PVC -DMV PIPE AND FITTINGS. ALL

ALL SOIL, WASTE LINES PLACED BENEATH FLOOR SLAB OR INACCESSIBLY AREA SHALL BE SCHEDULE 40 PVC.

ALL VALVES LOCATED BELOW GRADE SHALL BE PROVIDED WITH A VALVE BOX AND COVER .

AIR CHAMBERS SHALL BE INSTALLED ON ALL VERTICAL RISERS.

SHUTOFF VALVE REQUIRED ON ALL FIXTURES.

ALL HOUSE BIBBS AND OTHER PLUMBING DEVICES REQUIRING SUCH SHALL BE EQUIPPED WITH AN WHEN REQUIRED BY LOCAL LAW.

WATER HEATER SHALL BE PROVIDED WITH APPROVED PRESS & TEMP. RELIEF VALVE. VENT TO OUTSIDE WITH 3/ 4" LINE.

ALL WATERLINES LOCATED IN THE ATTIC OR CRAWL. SPACED OR IN UNINSULATED OUTSIDE WALLS. SHALL BE INSULATED WITH 1/ 2" FOAM RUBBER.

ALL WATER HEATERS SHALL BE PROVIDED WITH AN APPROVED SAFETY PAN BENEATH HEATER PAN DRAINS SHALL BE PIPED TO OUTSIDE OR DRYWALL WITH 3/ 4" SCHD. 40 PVC.

ALL CLEAN OLITS SHALL BE BROUGHT TO GRADE.

REVISIONS	BY
????	FGB


**BIK & LINDS RESTAURANT & BAR**  
**182 NW 5TH AVE.**  
**DELRAY BEACH, FL 33444**

ALL OF THE WORK, MATERIALS AND SERVICES DESCRIBED IN THESE PLANS ARE TO BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES AND REGULATIONS, ANYTHING HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS TO THE CONTRARY NOT WITHSTANDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES AND REGULATIONS, ANYTHING HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS TO THE CONTRARY NOT WITHSTANDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES AND REGULATIONS, ANYTHING HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS TO THE CONTRARY NOT WITHSTANDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, FEES AND REGULATIONS, ANYTHING HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS TO THE CONTRARY NOT WITHSTANDING.

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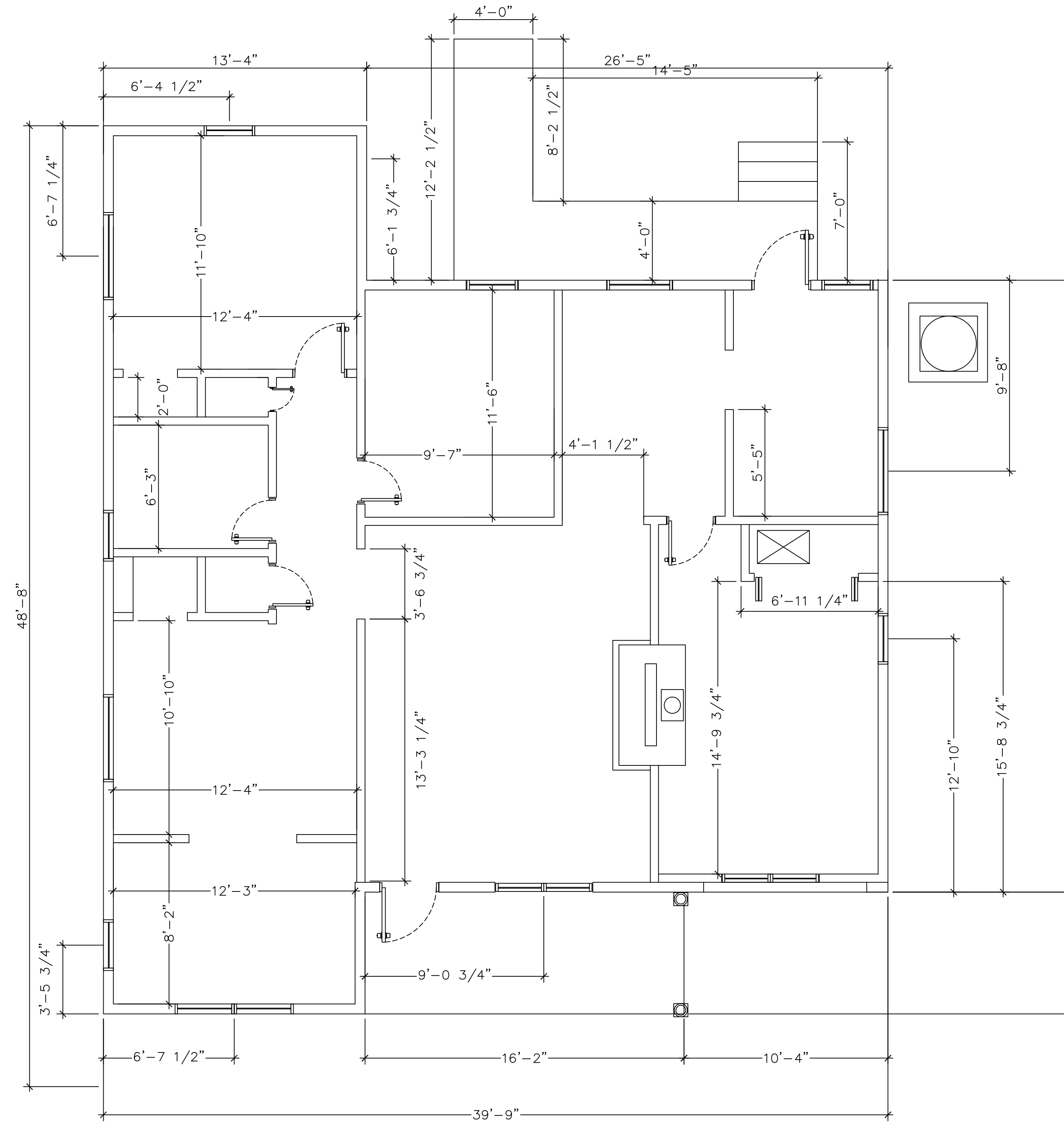
**1/4" = 1'-0"**

PROJECT :



**GENERAL NOTES:**

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND ANGLES AND ALL OTHER EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK. CONTRACTOR TO ALSO VERIFY AND APPROVE ALL INFORMATION ON DRAWINGS. ACCEPTANCE OF THESE PLANS CONSTITUTES APPROVAL. PLEASE NOTIFY ENGINEER BY CERTIFIED MAIL OF ANY CONFLICTS OR DISCREPANCIES, IF ANY.
2. CONTRACTOR SHALL FURNISH AND BE SOLELY RESPONSIBLE FOR ALL TEMPORARY BRACING AND SHORING REQUIRED TO MAINTAIN PLUMBNESS AND STABILITY OF ALL STRUCTURAL ELEMENTS DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL OBTAIN FROM ALL SUBCONTRACTORS THE FINAL APPROVED SITE AND LOCATION OF ALL OPENINGS TO BE PROVIDED FOR RESPECTIVE TRADES. HE SHALL BE RESPONSIBLE FOR LOCATION AND DETAILS.
4. ALL CONCRETE FOR FOUNDATIONS & SLABS ON GRADE SHALL REACH 2500 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS, AND ALL COLUMNS, GROUTED CELLS, SLABS ABOVE GRADE AND TIE BEAMS SHALL REACH 3000 P.S.I. COMPRESSIVE STRENGTH MINIMUM AT 28 DAYS UNLESS OTHERWISE NOTED.
5. CONTRACTOR/OWNER SHALL BE RESPONSIBLE FOR VERIFYING REQUIRED GRADE & FINISHED FLOOR ELEVATIONS WITH RESPECT TO DADE COUNTY FLOOD CRITERIA, EXISTING CROWN OF ROAD ELEVATIONS, FEDERAL FLOOD CRITERIA OR ANY OTHER GOVERNING BODY.
6. OWNER AND CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING, BY CERTIFIED MAIL UPON COMMENCEMENT OF PROJECT.
7. THE OWNER SHALL BE SOLELY RESPONSIBLE FOR INVESTIGATION IN REFERENCE TO WHETHER STRUCTURE CAN BE BUILT ON SITE. PAYMENT OF THESE DRAWINGS CONSTITUTES ACCEPTANCE & AGREEMENT WITH THE FOLLOWING STATEMENT: NO PARTY SHALL INITIATE DELAY CLAIMS AGAINST CARL G. FORBES. LIABILITIES SHALL BE LIMITED TO FEES PAID TO THE DESIGN PROFESSIONAL.



**BUILDING TYPE**

1. TYPE OF CONSTRUCTION: TYPE VB
2. LEVEL 2 ALTERATION
3. OCCUPANCY TYPE #: COMMERCIAL

**AREA CALCS :**

TOTAL UNDER ROOF 2,861 SF

**DESIGN CRITERIA**

ALL STRUCTURAL ELEMENTS, EXPOSED TO WIND, HAVE BEEN DESIGNED PER THE GUIDELINES OF THE ASCE 7-10 FBC 2017  
 LEVEL OF ALTERATION 2  
 WIND SPEED = 170 MPH 3 SEC GUST  
 EXPOSURE C  
 IMPORTANCE FACTOR = 1.00  
 BUILDING CATEGORY- II  
 Kd=0.85 FOR MWFRS WITH LOAD FACTORS  
 MEAN ROOF HEIGHT IS 11'-0"  
 PART. OPEN STRUCTURE  
 LIVE LOAD ..... 30 PSF  
 DEAD LOAD ..... 25 PSF

**SCOPE OF WORK**

CONVERT EXISTING RESTAURANT IN TO NEW RESTAURANT PER CODE,

REVISIONS	BY
00/00/0000	FGB



**JARK & LIME RESTAURANT & BAR**  
**182 NW 5TH AVE.**  
**DELRAY BEACH, FL 33444**

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**ARCHITECT/ENGINEER INFO HERE**

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 DATE: **06/18/2022**  
 SCALE: **1/4" = 1'-0"**  
 PROJECT: **JARK & LIME**



9.5.] Condensate drain piping shall be copper type L. Fittings shall be wrought copper. Piping shall be at a rate of 1/ 8 of an inch per foot. Provide condensate pump or pumps and wiring if unable to provide pitch required. 9.5 HVAC

9.5.2 Refrigerant piping shall be hard copper of weight type "K". Piping/fittings shall be wrought copper, with silver solder pipe joints, standard weights. Horizontal piping shall be supported with hangers spaced every 6 feet with a rod size of 3/ 8 inch. Method of hangers shall be in accordance with base building specification and requirements. Hangers for copper tubing shall have broad straps, fitting outside of insulation covering. Refrigerant valves shall be manufactured by Kerotest, Packless or approved equal. Refrigerant piping shall be anchored to the building structure in the vertical rise. Provide acoustical piping anchors as manufactured by "Vibrex" or

9.6 Plumbing:

9.6.1 Domestic cold and hot water, and indirect drainage piping and valves: Pipe shall be seamless hard drawn copper tubing, drawn temper, ASTM B88-4B, Type "L". Fittings shall be wrought copper, solder-joint, ANSI B16.22, or cast bronze, ANSI B16.23. Use cast fittings only in sizes and types where wrought fittings are not available. Flanges shall be cast brass, solder joint flange, class 150, ANSI B16.24, Nibco No. 771 as standard. Unions shall be wrought copper solder joint unions, ANSI B16.22, Nibco No. 625 as standard. Solder shall be 95-5 solder and flux. At contractor's option, higher temperature solder may be used. Solder shall be lead free. Where a close fitting is required or at connections to fixtures and apparatus with threaded hubs, use standard weight IP-5 brass pipe with standard cast brass threaded fittings.

9.6.2 Soil and waste piping: Pipe and fittings shall be cast iron conforming to commercial standard 188-59-service weight.

Joints shall be code-approved, no hub couplings with neoprene gasket, stainless steel clamp and stainless steel bolts or cast iron couplings with neoprene gasket and stainless steel nuts and bolts.

9.6.3 Vent piping:

Pipe shall be standard weight galvanized steel pipe, ASTM A-120. Fittings shall be galvanized cast iron steam pattern, standard weights. Contractor may use same type pipe as specified for soil and waste pipe.

9.6.4 Cleanouts:

Provide cleanouts at locations indicated on the drawings and as required by the Plumbing Code. Cleanouts shall be Cast Iron body, threaded bronze plugs and flashing flange where required. Cleanouts shall be Josam, J.R. Smith, Zurn or Wade, and shall be equal to the

Finished floors: Smith 4020, 4040, with satin finish top. Unfinished floors: Smith 4240 with rough finish.

Make all cleanouts accessible by one of the following means: Within 6' from ceiling access panel; Extending to floor or grade above. Location in wall with removable plate. Cleanout shall be same size as pipe on which installed. Covers shall be set flush with finish wall, floor or grade to be securely anchored by means of integral lips or bolts. Where surfacing materials, such as resilient floor covering or ceramic tile is use, it shall be Contractor's responsibility to ascertain thickness being used and to install the cleanout with top so that finished surface will be smooth

In cast iron soil pipe, provide iron body with extra heavy bronze plugs screwed into caulking females. For copper, cleanouts shall be brass plugs in cast adapter or fitting end. Where installed in waterproofed slabs, cleanouts shall be provided with anon puncturing flashing clamp device and anchoring flange.

9.6.5 Joints in threaded piping shall be made up with joint seal compound. Joint compound shall be carefully and smoothly placed on male thread and not in fittings.

9.6.6 Floor drains and floor sinks shall have "P" traps, same material and weight as waste pipe. Floor drains shall be a 3" minimum

9.6.7 Trap primers shall be provided on all floor drains.

9.7 FIRE SPRINKLERS

Pipe and Fittings Above Ground:

Branch piping, Schedule 40 black steel pipe, ASTM A210 with Class 125 standard cast iron threaded fittings, ASTM A26.

Schedule 40 black steel pipe, ASTM A210, welded rolled groove without metal removal or grooved and in accordance with MFG directions or threaded ends. Fittings shall be standard weight weld or Class 125 standard cast iron screwed fittings; ASTM A26 or UL listed grooved fittings.

Light wall pipe, 51M A210, roll grooved without metal removal UL-listed grooved fittings with standard weight couplings.

Mechanical couplings and fittings shall be of same manufacturer.

10. FIXTURES AND FIXTURE SUPPORTS

10.1 Provide plumbing fixtures complete with fixture supports, trim and exposed fixture stops.

10.2 Traps and trap arms exposed above the floor shall be chromium-plated adjustable brass Uniform Code pattern, with wall escutcheon and casing, all chrome-plated.

10.3 Faucets shall have removable trim units

10.4 Plumbing fixture installations:

Install each fixture or other plumbing item at the exact height and location shown on the architectural drawings, or in the absence of such drawings, in accordance with the manufacturer's rough-in drawings or handicap requirements where required.

Set fixture supplies, trap and trap arm squarely with wall, in line with fixture outlets, without any offsets, angles or bends. Fixture connections shall be properly aligned to prevent any undue strain on equipment or fixture.

Set each fixture level and in continuous contact with floor or wall. Joint between fixture and walls or floors shall be adequately grouted with Modex cement as standard forming a smooth, even, watertight joint. Porcelain plaster caps shall be securely cemented into place over floor or wall flange bolts, entirely covering washer and bolthead.

Water closet gaskets shall be used to form a watertight joint between toilet bowls and drain carrier. Waste outlet or urinal shall be sealed with the felt gasket furnished by the manufacturer.

Exposed plated, polished or enameled connections from fixtures shall be installed with special care showing no tool marks or threads.

Furnish and install Zepher-Harris Corporation No. 7H-1000 2-part neoprene caulking compound as standard around underside of self-rimming sinks to provide positive water seal. Compound shall be mixed and applied as recommended by manufacturer.

10.5 Fixture supports:

All fixtures shall be hung, supported or set with bolts or screws of sufficient length to securely fasten the fixture to the backing wall.

Fixtures set against stud walls shall have their hangers secured to a metal backing plate. Metal backing plates shall be installed at the time the rough piping is installed and shall be a steel plate minimum 1/ 4" thick, and not less than 4" wide. The plate shall be attached to a stud at each end of the plate, and to each stud which it passes. Where studs are metal, the plate shall be attached by bolting no less than 2-1/ 4" U bolts per stud with the bolts through the plate and around the flange of the stud, or by welding with a 1/ 8" fillet weld across the full width of the flange at the top and bottom of the plate. Where studs are wood, wood screws shall be used.

II. INSULATION AND ACOUSTIC LINING

11.1 Thermal insulation and acoustic lining and all accessory materials shall be listed and labeled by the Underwriter's Laboratories Inc. for the hazard classification, as tested under ASTM E-4, NFPA 255, or UL 723 procedures not to exceed the following: flame spread of 25, heat contribution of 50, smoke development of 50. All adhesives shall comply with the requirements of NFPA-90A. All acoustic lining shall meet the erosion test method described in Underwriters' Laboratories, Inc. Publication No. 191.

11.2 Where both acoustic lining and insulation are specified, the insulation may be omitted. The acoustic lining shall provide the equivalent insulation value as the insulation being omitted.

11.3 Duct Insulation:

All air ductwork shall be insulated. Insulation shall be inorganic glass fiber flexible blanket with factory applied facing of foil scrim-Kraft FSKL with tab and a minimum R-value required by code. K factor shall be 0.29 maximum at 75F mean temperature. Minimum density shall be 0.75 pcf. Type Manville, Microlite with R-value (out of package) not less than 4.5 (1-1/ 2" thick) as standard.

The installation of Duct Insulation shall be to cover all surfaces including standing seams with insulation. Joints shall be lapped a minimum of 2". Tape joint caps so there is no exposed fibers. Fasten insulation with wire ties spaced 12" on center, maximum of straight runs and 3" on center for elbows and fittings.

For horizontal ducts 24" or more in width, secure insulation with mechanical fasteners spaced 18" on center along the bottom of the duct.

11.4 Pipe Insulation:

The installation shall be fiberglass, mdded, one-piece insulation with white Kraft, fiber glass reinforced aluminum foil laminated, All-Service Jacket (ASJ). Pipe insulation shall be capable of continuous service at a pipe temperature of 450 degrees without oxidation or burnout of binders or the development of odors or smoke by any constituent of the material. The physical characteristics shall be as

Minimum Density 4 lbs./cu.ft.  
Thermal Conductivity 0.25 Btu-in./hr.-sq.ft. -Degree F.  
Jacket Vapor Permeability 0.02 Perms.  
Jacket Puncture Resistance 50 units (Reach)

11.4.1 Insulation Thickness:

Thickness:

Service Pipe Size (Inches)  
Condensate Drain Lines All «  
And cold water lines  
Domestic Hot Water All 1  
Refrigerant All 1

11.4.2 Installation of Pipe Insulation:

Pipe insulation sections shall be firmly butted together at all joints with jacket laps and joint butt strips pulled tight and smooth. Insulation for fittings, valves, flanges, and accessories shall have same thickness as adjacent pipe insulation.

11.4.3 Hot Service Piping - Concealed:

Pipe insulation shall have jacket laps and joint butt strips stapled on 4 inch centers with flare tape staples and secured with aluminum bands on 18 inch centers with one band over each joint with butt strip. Voids in fittings, valves and flanges shall be insulation filled with insulating cement and the entire fitting finished with a smoothing coat of cement overlapped a minimum of 2 inches on adjacent pipe covering.

11.4.4 Hot Service Piping - Exposed:

Insulation jacket laps and joint butt strips shall be sealed with lap sealing adhesive. Voids in fittings, valves and flanges shall be insulation filled with insulating cement and the entire fitting smooth coated with cement. Finish with open weave glass fabric membrane lapped 2 inches over adjacent pipe covering and adhered between two floor coats of finish coating.

11.4.5 Cold Service Piping - Concealed and Exposed:

Insulation jacket laps and joint butt strip shall be sealed with lap sealing adhesive. At all fittings and at 21 foot intervals of straight run pipe insulation, apply vapor barrier coating, 1/ 16 inch thick, to all butt joints and on the bore of the pipe insulation for a minimum of 2 inches from the joint. Position insulation and press firmly into place making certain that a complete unbroken seal is obtained.

Apply uniform coat of vapor barrier coating, 1/ 16 inch thick, to all surfaces, edges and voids of fitting, valve and flange insulation. Embed open weave glass fabric membrane in wet coat, smoothing all wrinkles, or spiral wrap fiber glass tape on wet coated insulation overlapping wraps a minimum of 1 inch. Overlap membrane on adjacent pipe covering vapor barrier a minimum of 4 inches. Apply finish coat of vapor barrier coating to completely cover membrane.

11.4.6 Protection of Insulation:

Insulation on hot pipes shall be protected from hangers, guides and rollers by pipe protection saddles welded to the pipe and filled with pipe insulation of insulating cement. Saddles shall not be welded by pipe hanger or support. Insulation on cold pipes shall be protected from hangers, guides and rollers by a 160 degree galvanized steel shield on the outside of the insulation and vapor barrier. A half-section of waterproof, calcium silicate, high density insulation of the same thickness as the pipe insulation of the same thickness as the pipe insulation, and full length of the shield, shall be used to support the weight of the pipe at the shield. Shields shall be of sufficient length to allow for the maximum pipe movement and hanger load at the specified hanger spacings. Pipe protection shields may be factory assembled thermal protection shields.

11.5 Acoustic Lining

Acoustic duct lining shall be 1" minimum thickness, 5.0 lb. per cu. ft. minimum density, semi-rigid fiberglass blanket, coated on one side with a fire-resistant coating resistant to surface fiber blow off.

Velocity Rating shall be 4,000 FPM. Duct liner shall have been tested by the manufacturer at 2-1/ 2 times the rated velocity. "M" Factor shall be 0.26 maximum at 75F mean temperature. Tape shall be as manufactured by Manville, Lincrustics; Owens-Corning Fiberglas; Aeroflex Duct Liner, Type 200; CertainTeed, Ultralite Duct Liner, Type 150; or approved equal. Dimensions of lined ducts shown on drawings are the clear inside dimensions of the duct system including liner after the lining has been installed.

Provide acoustic lining on the following ductwork and where shown on the drawings: On the first ten feet of supply and return ductwork from each fan coil and air conditioning unit. On exhaust ductwork, 10 feet either side of all exhaust fans and toilet exhaust fans

12. FOUNDATIONS, VIBRATION ISOLATION AND SEISMIC RESTRAINTS

12.1 Provide complete systems and materials designed to prevent the transmission of vibration and mechanical transmitted sound to the building. Vibration isolation and seismic restraint manufacturer shall be responsible for adequate coordination of all phases of this work.

12.2 Seismic Restraints:

Restraints shall permit adjustment during installation to ensure sufficient clearance between vibration isolated element and rigid restraining device. Do not install until vibration isolators have been loaded and adjusted to achieve the specified static deflection and clearances.

Restraints for all hanging AC equipment and fans shall consist of minimum of 4 stainless steel aircraft cables arranged to achieve the required all-directional restraint and sized to resist the seismic forces as required. Submit shop drawings indicating proposed method for achieving vertical restraint for suspended units and piping. Cables shall have sufficient slack to avoid short-circuiting the vibration isolators. Include calculations sustaining sizes of cables and connections between cables and the supporting structure.

Where applicable local or state building laws require, seismic restraints in excess of those specified herein, the Code shall govern.

Restrain all vibration isolated AC units, fan coil units & fans to resist a lateral force loading of not less than 1.0G. Use SWACNA guidelines for Seismic Restraints of system units.

Provide seismic calculations signed by a registered structural Engineer. Refer to shop drawing article for details.

12.3 Vibration Isolation:

Approved manufacturers are "Vibrex" by M.W. Sausse, Mason Industries, Inc., Vibration Mounting, Cal Dynamics or Potter Roeman.

Where steel spring isolation systems are specified, the mounting assemblies shall utilize bare springs with the spring diameter not less than 0.25 of the loaded operating height of the spring. Each spring isolator shall be designed and installed so that the ends of the spring remain parallel. The spring deflection before becoming solid, shall be a least 50 % greater than the specified minimum deflection.

Vibration Isolation Hangers for Ceiling Hung Fans, Ceiling Hung Fan Coil Units and Ceiling Hung AC Units:

Spring hanger consisting of a rectangular steel box, coil spring, neoprene spring seat, neoprene spring cup with bushing extending through hanger box to prevent contact of rod and hanger box, and the addition of a load transfer plate to hold the equipment to piping at a fixed elevation during installation and to permit transferring the load to the spring after installation. The air-handling units shall have a 1" deflection. The piping shall have a 1/ 2" static deflection.

The hanger box shall be capable of supporting a load of 500 % rated load without noticeable formation or failure.

The design shall be such that the hanger rod may sway 30 degrees before contacting spring seat.

The manufacturer shall be Vibrex, Type (HX) as standard.

Use vibration isolation washers and grommets to prevent metal-to-metal contact on vibration isolation equipment.

13. ELECTRIC MOTORS AND CONTROLLERS

13.1 Provide all electric motors of sizes and types as specified for driving all equipment being provided under this section. All motors shall be of the proper power and speed to suit the particular characteristics of the driven equipment.

13.2 Furnish and turn over to the Electrical Contractor, starters and controlling equipment, as specified hereinafter and as indicated. The Electrical Contractor will install all starters and controlling equipment.

13.3 All motor controllers and accessories shall comply in every respect with NEMA standards and shall be in full accordance with the National Electrical Code and all local codes and ordinances having jurisdiction.

13.4 All motors and equipment for use within air plenums shall conform to the specific requirements of the National Electrical Code and all local codes and ordinances having jurisdiction.

13.5 All starters for single phase, 60 Hertz, A.C. service, unless otherwise noted, shall be of the manual starter type with thermal overload protection, except where interlocks or automatic controls are required. In such cases, magnetic across-the-line starters shall be furnished.

13.6 All starters other than 120 volt, single-phase service shall have suitable transformers built into each starter casing. Transformers shall serve all control circuits, including signaling devices. Each starter subject to electrical interlock and/ or automatic control shall have the necessary auxiliary contacts.

13.7 All starters located outside shall be of the weatherproof type.

13.8 All starters shall be lockable in the open position.

14. START-UP AND TESTING

14.1 General: Furnish and run for all devices, materials, supplies, labor and power required in connection with start-up and tests. Leave the equipment and installations clean and ready for use. Make all tests to the satisfaction of the Consulting Engineer, and inspectors of the city, applicable insurance association and public utility inspectors having jurisdiction. Test and adjust equipment and systems in service and demonstrate that they perform the work intended for them and that they comply with the requirements of these specifications for such equipment and systems. Perform any tests other than those specified, which may be required by local authorities or agencies to whose requirements this work is to conform. Repair, or if required by the Architect or Consulting Engineer, replace defective work with new work and repeat tests as directed until work is proven satisfactory. Restore to its original condition, any work damaged or disturbed by tests and the rectification of defective work.

14.2 Plumbing:

Subject the new water distribution system, waste and vent piping to a water test. Water test shall be made in accordance with Uniform Plumbing Code and Local Building Code. Test all fixtures for soundness, stability of support and satisfactory operation.

14.3 HVAC:

Adjust all air outlets, registers and diffusers for optimum air distribution and minimum noise and drafts, starting with all elements in wide-open position. Air quantities at diffusers, etc., shall be adjusted from branch take-off dampers. Valve dampers at diffusers and registers shall be used for fine-tuning only to minimize noise generation at diffusers. Submit three (3) copies of the air balance report to the Consulting Engineer for final approval. Make all adjustments to the automatic controls to make the system conform to the design criteria. Air Conditioning Units. Make all required adjustments to air conditioners, etc., until all performance requirements are met. These adjustments shall be made with all equipment operating. Pressure testing shall be as per SWACNA High-Pressure Duct Construction Manual, Chapter 10. Test representative samples of ducts installed above accessible ceiling construction. Performance testing of the smoke detectors shall be provided

14.4 Sprinkler

Test sprinkler systems in full accordance with applicable Underwriters' and Municipal requirements, but in no case shall the sprinkler system be tested at less than 200 lbs. hydrostatic pressure. Apply the test for a minimum of two (2) consecutive hours with no loss in loss in pressure.

Conduct any additional tests to the full satisfaction of and as required by authorities having jurisdiction over any part of the fire protection installations forming part of this entire contract.

15. CONTROLS

15.1 Provide all control wiring and all associated conduit, required relays, transformers, time clocks, control devices, starters, thermostats, motors, switches, dampers and control panels, to provide the functions as specified. All control wiring and associated conduit shall conform to section 16000. All power wiring and conduit and life safety wiring and conduit will be provided by the Electrical Contractor (unless otherwise noted).

15.2 Fan controls shall be electric. Refer to the drawings for the sequence of operation.

and shut down the equipment.

15.4 Air Conditioning Units: (Air Cooled Split- Heat pump).

changeover thermostat with sub-base. The thermostat shall cycle the compressor to maintain room temperature. Thermostat shall have a

setting. Color finish to be approved by architect. The fan shall be in the on position whenever the ac system is on.

Provide the necessary control work to interlock FC units with the air-cooled condenser CU units, the automatic outdoor air damper and the building life safety system.

Upon activation of FC, the following sequence of events shall take place:  
The fan of FC shall turn on.  
The automatic outdoor air damper shall open.  
CU shall be activated.

The compressor shall cycle.  
Upon de-activation of FC, the following sequence of events shall take place:  
The fan of FC shall shut off.  
CU shall be de-activated.  
The automatic outside air damper shall close.

15.4.2 Provide a HVAC relay to interconnect the FC with the building life safety system. The building life safety system shall shut down FC upon a signal from the life safety system.

15.4.3 Provide a duct smoke detector for the FC to signal the life safety system.

16. Sprinkler Work

Provide the design and installation of the fire protection work (Sprinkler System) including all equipment, material, labor, service, posting, support, tools, transportation, and supervision for all Fire Protection work as specified herein. The work includes but is not limited to the following:

Provide all engineering design and materials for a complete sprinkler system and all other equipment necessary for a complete operational system.

Design a distribution sprinkler system extending from existing main sprinkler line to tenant space.

Coordinate the layout of new and/ or relocated sprinkler heads with ceiling plan. Position sprinkler heads in an orderly fashion. In open area ceiling, position heads between lights. In the 2 by 2 ceiling, position heads in the center of the tiles.

Modify or add to the existing sprinkler system, in tenant space. Drop heads down to new ceiling system.

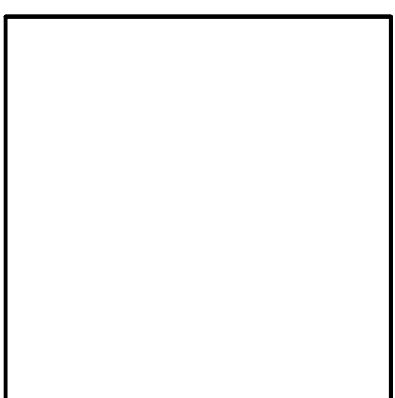
Coordinate the layout of the new and/ or relocated sprinkler heads with lighting ceiling plan.

Submit to the engineer plans showing the work to be installed.

Hydraulic and other calculations shall be prepared in accordance with all applicable code requirements and as required by all authorities having jurisdiction.

Fire sprinkler Heads: In finished ceiling areas building standard. In areas where there are no finished ceilings, upright or pendant-type shall be provided as required to suit installation. Provide automatic sprinkler heads of finish as approved by the Architect. All heads and colors of heads shall be as approved by the Architect and the municipal and insuring agencies having jurisdiction. All heads shall fit the conditions in which they are installed. All heads installed in ceilings shall be provided with escutcheons. All heads shall be of the proper temperature rating for the locations in which they are installed. The Building Chief Engineer and Fire Control Center must be notified prior to each and every draining or recharging of the sprinkler system. No hot work can be done on any floor where the sprinklers are drained.

REVISIONS	BY
?????	FGB



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**182 NW 5TH AVE,**  
**DELRAY BEACH, FL 33444**

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DATE  
**7-24-2018**

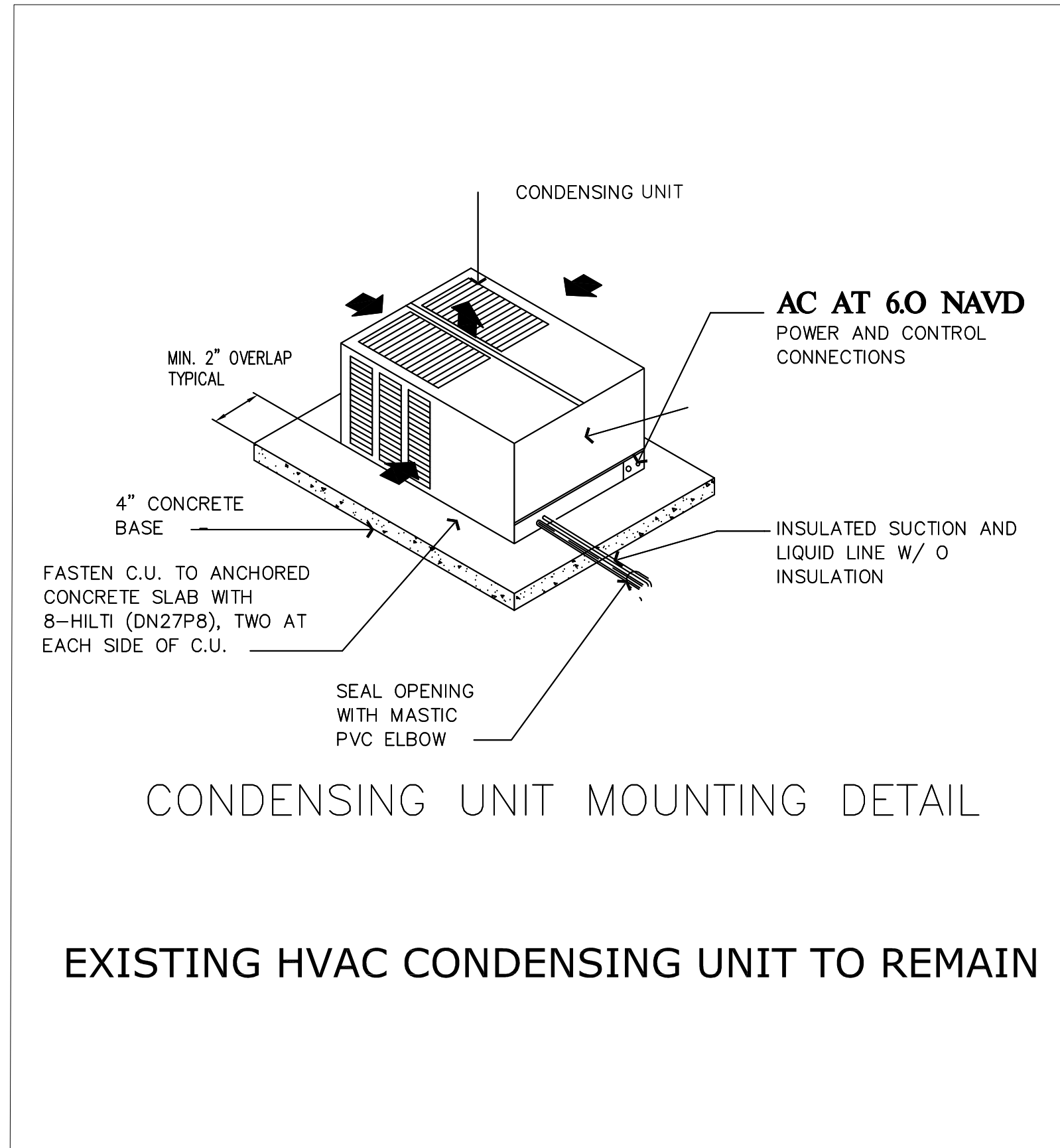
**1/4" = 1'-0"**

PROJECT :

SHEET  
**M-1**

follows.

REVISIONS	BY
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**GENERAL NOTES-HVAC**

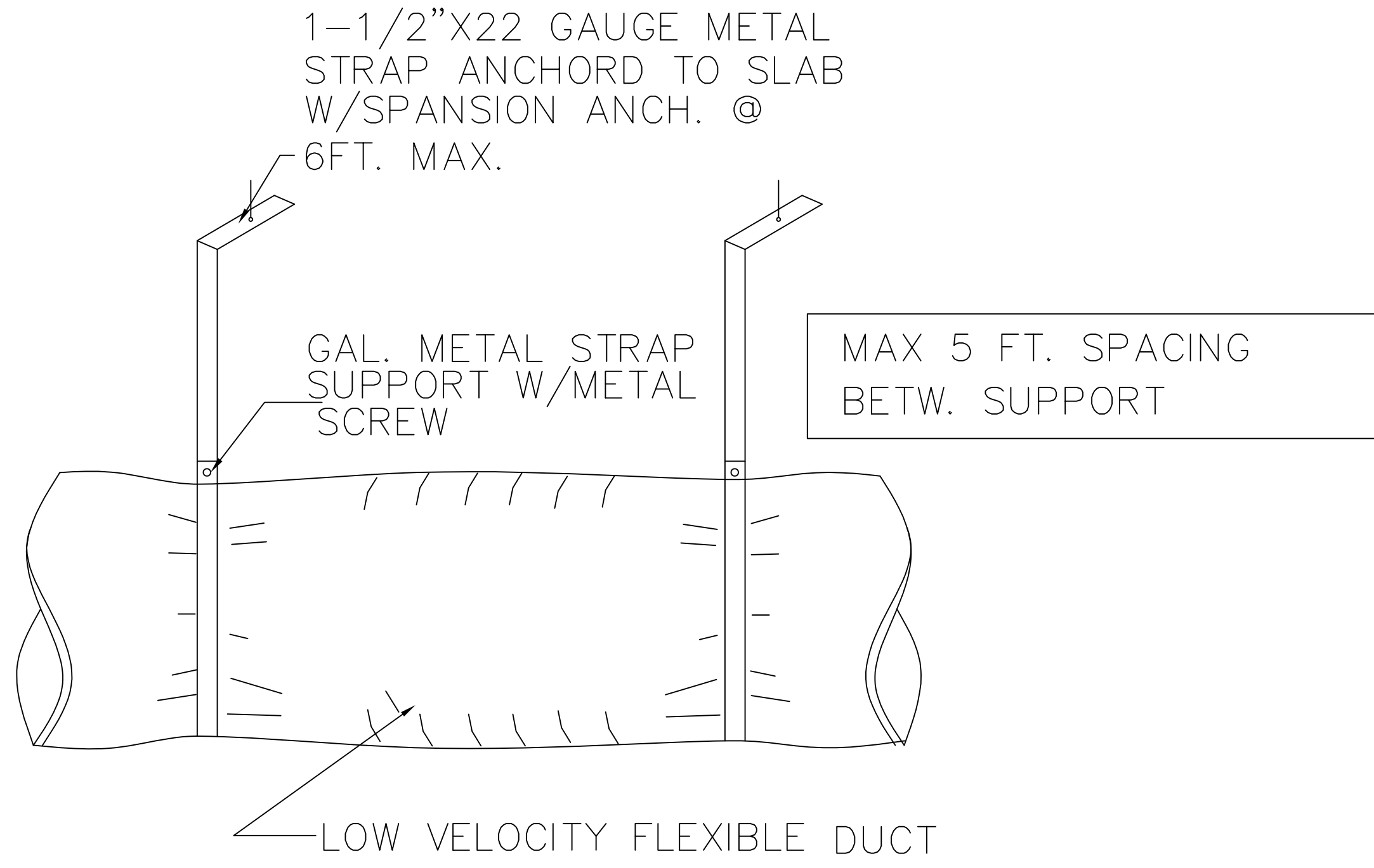
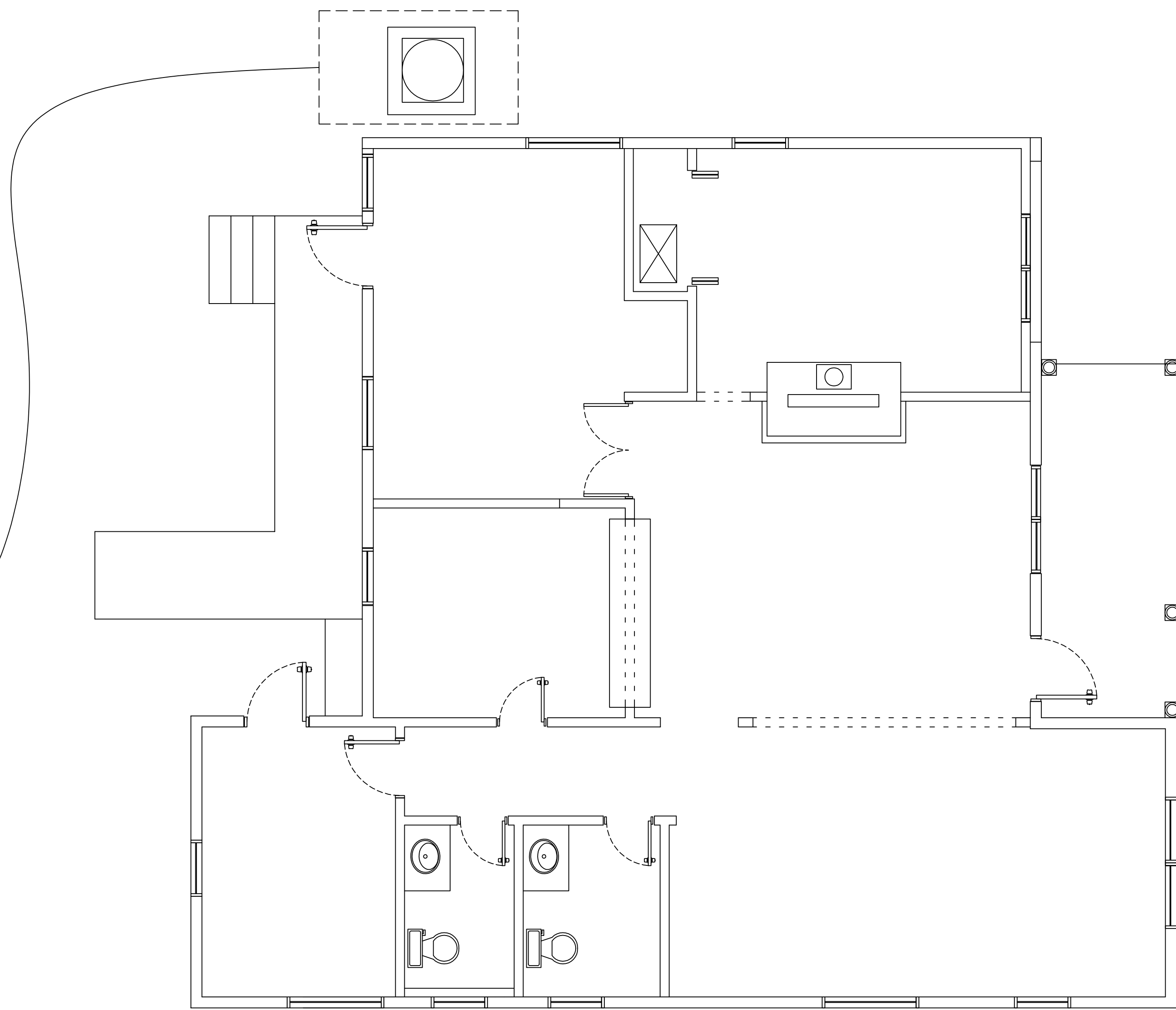
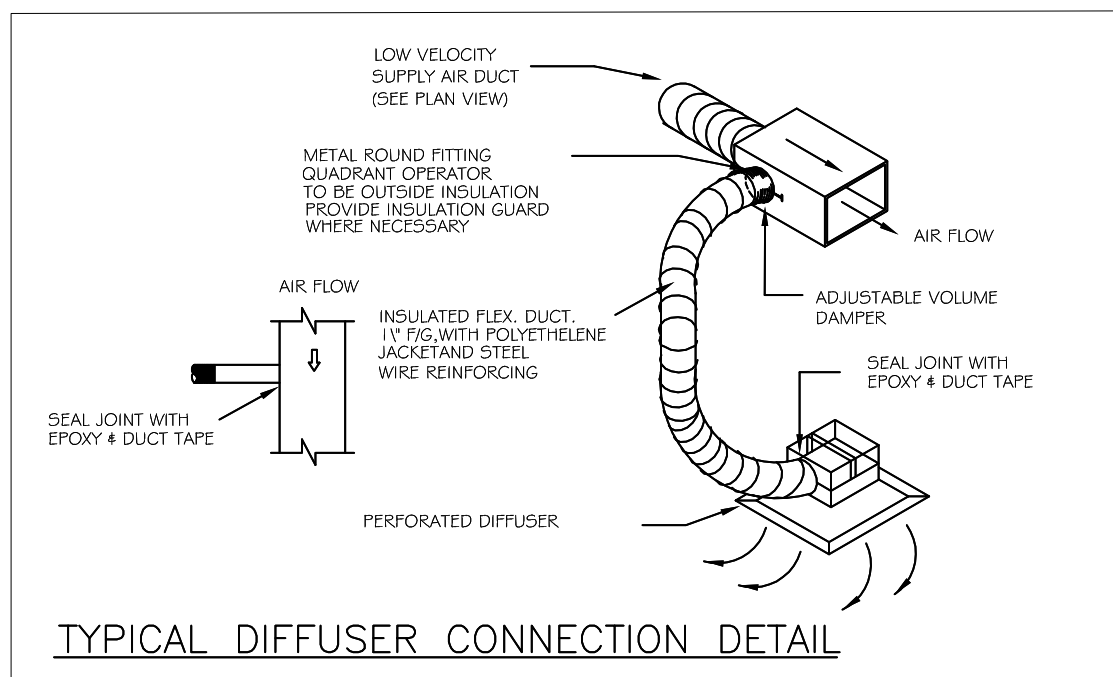
- 01- all work shall conform to the latest edition of the standard building code and applicable state and local ordinances.
- 02- contractor shall warrant all work to be free of defects in workmanship and materials for a period of one year after acceptance of project.
- 03- provide all the necessary instructions to the owner, including all required printed materials, in the operation of the mechanical systems.
- 04- provide equipment maintenance and instruction manuals, etc. to the owner submit architect/engineer for approval.
- 05- submit equipment, accessories, controls, ductwork, etc. shop drawings before proceeding with the purchase or installation of same.
- 06- provide all the necessary access panels to valves, fire dampers, etc as may be required.
- 07- balance all air systems to within 10% of quantities shown on plans.
- 08- all work must be coordinated with all other trades prior to execution of same.
- 09- a/c contractor must obtain his own permit and pay for all required fees.
- 10- conditioned ductwork shall be as follow:  
class I fiberglass, neoprene coated internally, R-6 value to SMACNA'S fiberglass duct manual and flexible duct with R-6 insulation jackets and applicable state and local ordinances.  
for first floor use R-4.2 insulation value.
- 11- ventilation ductwork shall be galv. sheetmetal per SMACNA'S LOW PRESSURE METAL DUCT STANDARDS. vent ductwork shall not be insulated.
- 12- all duct dimensions shown on plans are clear inside dimensions.
- 13- provide accessory low volt room thermostats with fan-off-auto and cool-off-heat switches and heating subbase.
- 14- carefully coordinate location of ductwork with all structural elements providing duct sleeves as required.
- 15- control wiring shall be the responsibility of the mechanical contractor.

**SCOPE OF WORK**

PLACE A/C DUCTWORK TO CONVERTED CARPORT  
 HVAC CONDENSING UNIT REPLACED ON PERMIT 17-7428  
 ALL A/C DUCTWORK SHOWN ON PRINT IS EXISTING.

**SPLIT SYSTEM SCHEDULE**

UNIT DESIGNATION	AHU-1
AREA SERVED	HOUSE
MANUFACTURER	RHEEM
FAN COIL UNIT MODEL No.	RA1448A1
CONDENSING UNIT MODEL No.	RH1P4821STAN
CU. BREAKER	50A
SEER	14
TOTAL CAPACITY BTUH	45,500
SENSIBLE CAPACITY BTUH	32,900
COIL ENTERING CONDITIONS	80/67 DEG DB/WB
AMBIENT AIR TEMPERATURE	95 DEG DB
TON	4.0
FAN COIL UNIT FAN HP	1/3
HEATER KW	10
CONDENSING UNIT FLA	23.0
VOLTAGE FOR SYSTEM	240-2-60
CFM	1600
FAN COIL UNIT LOCATION	HOUSE
CONDENSING UNIT LOCATION	GRDE
REFRIGERANT LINES SIZES	
SUCTION (INCH)	7/8"
LIQUID (INCH)	5/8"



**FLEXIBLE DUCT SUPPORT**

Code in Effect: 2020 Florida Building Code

JERK & LINDS RESTAURANT & BAR  
 182 NW 5TH AVE.  
 DELRAY BEACH, FL 33444

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