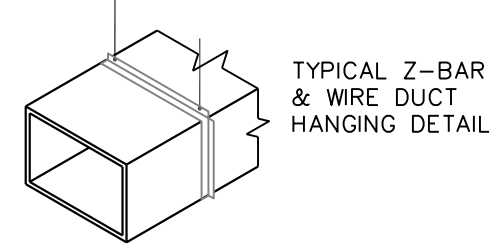


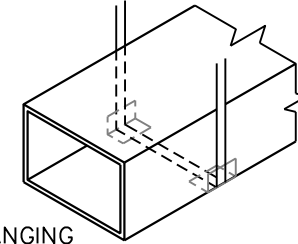
DUCT HANGING DETAIL

NTS

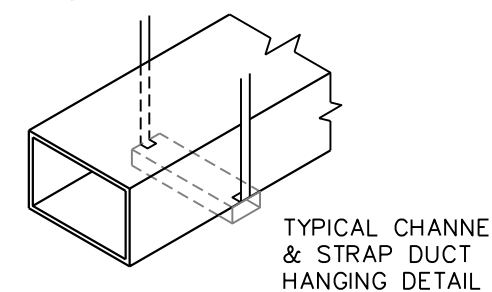
NOTE:
HANG DUCTS ACCORDING
TO SMACNA STANDARDS



TYPICAL Z-BAR
& WIRE DUCT
HANGING DETAIL



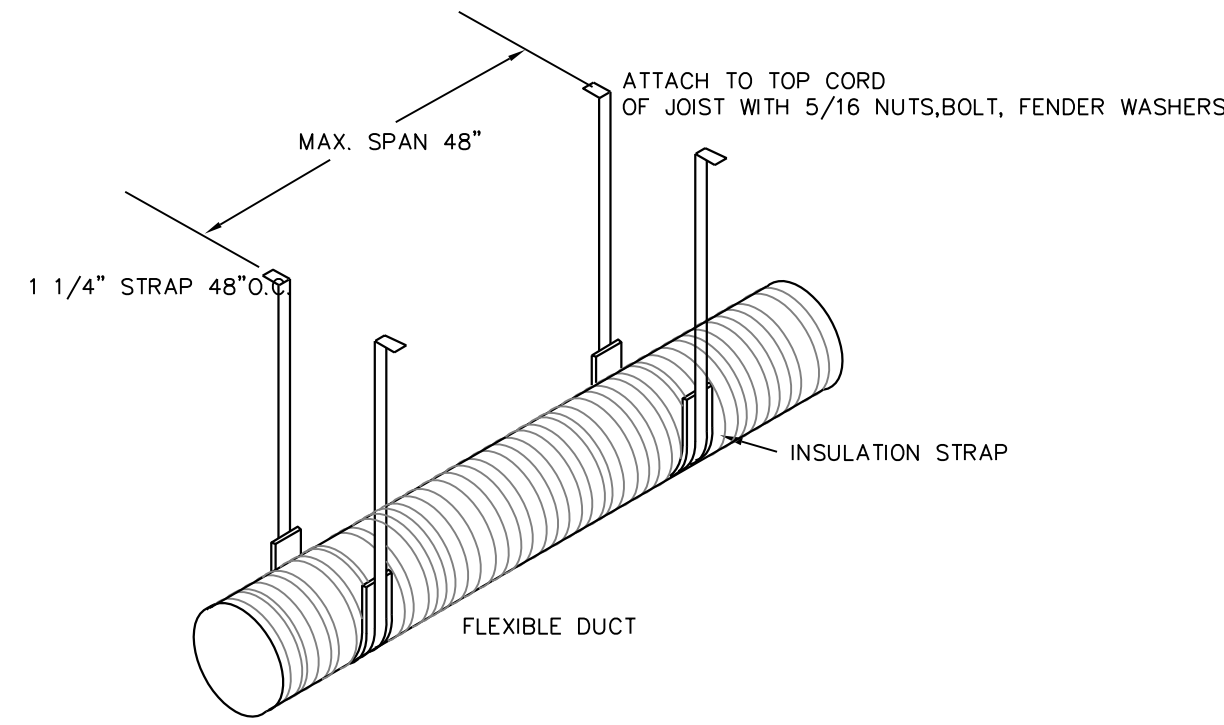
TYPICAL HANGING
STRAP & SADDLE
DUCT HANGING
DETAIL



TYPICAL CHANNEL
& STRAP DUCT
HANGING DETAIL

ROUND FLEX DUCT HANGING DETAIL

NTS



H.V.A.C. NOTES

A/C EQUIPMENT: EXISTING HEAT PUMPS

DUCTWORK: RIGID FOIL FACED 1.5" R=6.0 SUPPORT 48" O.C. ALL TURNS AND TRANSITIONS PRESSURE TAPE AND MASTIC SEAL ALL SEAMS AND JOINTS.

FLEX UL CLASS ONE AIR DUCT, R=6 SUPPORT 48" O.C. SPIN IN COLLARS WITH M.V.D. TIE WRAP INNER LINER AND PRESSURE TAPE AND MASTIC SEAL OUTER LINER WITHOUT COMPRESSING INSULATION

EXHAUST: NA
SMOKE EVAC : SMACNA STANDARD GALVANIZED ROUND

DIFFUSERS: NEW USE BLDG STANDARDS
RETURNS: NEW USE BLDG STANDARDS

EXHAUST FAN EF1: NA
THERMOSTAT: NEW, MATCH BUILDING STANDARD

SMOKE DETECTORS: IONIZATION TYPE CARRIER, BRK. WIRE UNIT FOR SHUTDOWN UPON ACTIVATION. PROVIDE TEST SWITCH, VISUAL AND AUDIBLE ALARM.

FRESH AIR REQUIREMENTS

OFFICE AREA

OFFICE AREA
SCFM/PERSON X 10PEOPLE + 0.06CFM/SF X 1749SF = 154CFM
FRESH AIR REQUIRED 154 CFM
FRESH AIR PROVIDED 160 CFM

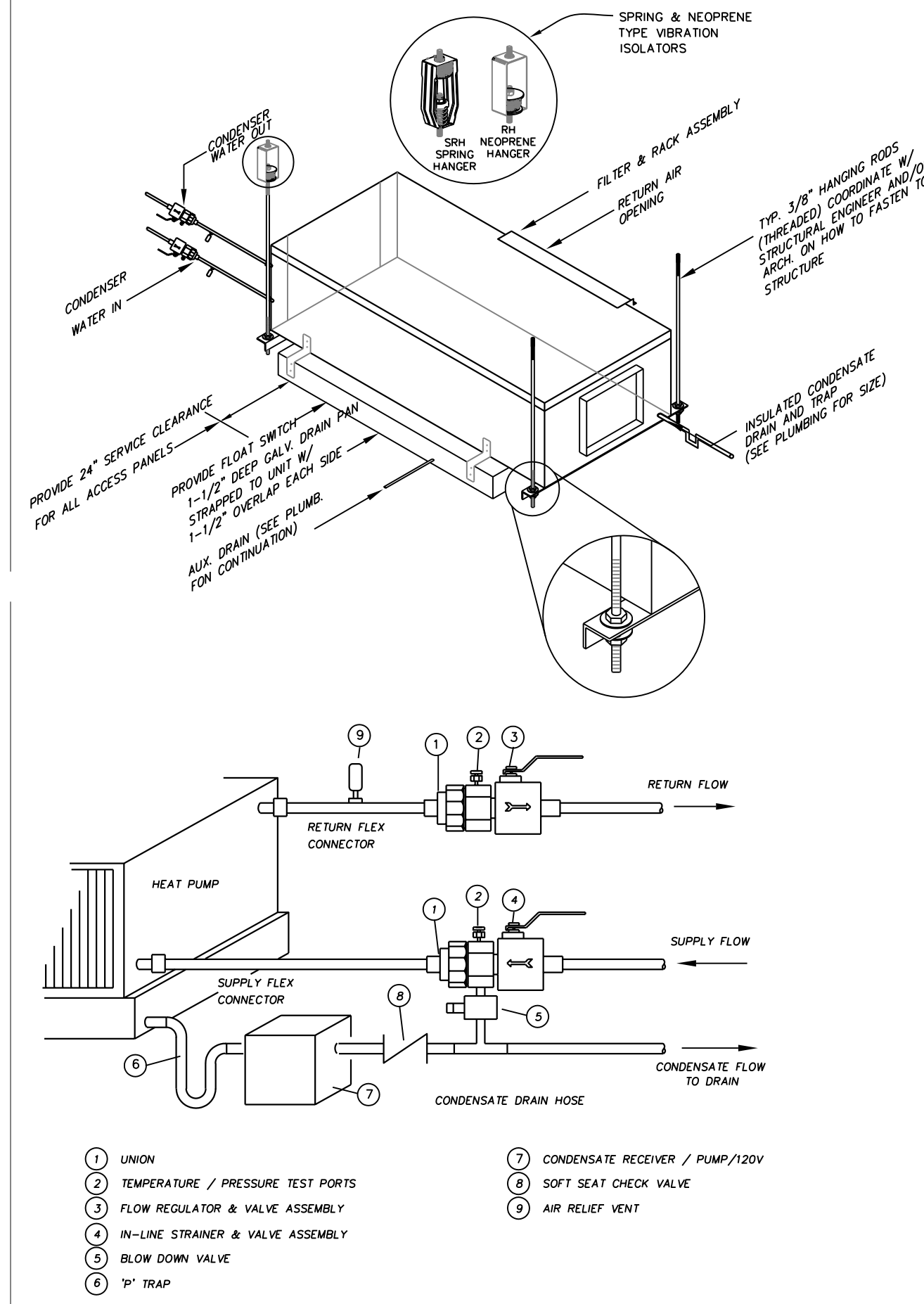
GENERAL MECHANICAL NOTES

- ALL WORK EXECUTED UNDER THIS OFFICIAL DOCUMENTS SHOULD BE PERFORMED BY A LICENSED AND INSURED MECHANICAL CONTRACTOR AND BE IN COMPLIANCE WITH THE LATEST FLORIDA BUILDING CODE (FBC), SHEET METAL & AIR CONDITIONING CONTRACTOR'S ASSOCIATION (SMACNA) STANDARDS, AND ALL OTHER APPLICABLE STATE AND LOCAL CODE.
- ALL WORK SHALL BE PERFORMED IN A FIRST CLASS WORKMANSHIP MANNER TO PRODUCE A COMPLETE SYSTEM THAT IS FULLY BALANCED, AND ADHERED TO ALL APPLICABLE CODE AND REGULATIONS.
- MECHANICAL CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE THAT THE COMPLETE SYSTEM INSTALLED IS FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF A YEAR AFTER THE WORK IS COMPLETE AND TURNED TO THE OWNER.
- THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO OBTAIN HIS OWN PERMIT AND PAY ALL PERMIT AND INSPECTION FEES.
- AT THE COMPLETION OF THE PROJECT THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A SET OF PRINTS CLEARLY MARKED AND DEPICTED ALL AS-BUILT CONDITIONS TO THE ENGINEER FOR RECORD.
- CONTRACTOR SHALL PAY SPECIAL ATTENTION TO OWNER EQUIPMENT, FURNITURE, AND CARPETING TO PREVENT CONTAMINATION BY COVERING AND WRAPPING FURNITURE AND EQUIPMENT. ALL WASTE AND DEBRIS SHALL BE REMOVE AT THE END OF EACH DAY TO MAINTAIN ACCEPTABLE INDOOR AIR QUALITY LEVEL DURING THE CONSTRUCTION.
- ANY PORTION OF EXISTING BUILDING (FLOOR, WALL, CEILING, OR ROOF) THAT IS AFFECTED BY EITHER REMOVAL, RELOCATION OR INSTALLATION OF A NEW EQUIPMENT SHALL BE REPAIRED AND MATCHED FINISHED EXISTING CONDITIONS ACCORDING TO ARCHITECTURAL DRAWINGS OR SPECIFICATIONS.
- WHEREVER DUCT RUNS THROUGH STRUCTURAL ELEMENT SUCH AS BEAM PRECAUTION SHALL BE TAKEN TO COORDINATE WITH OTHER TRADES TO RELOCATE OR TO PROVIDE NECESSARY SLEEVE BEFORE CONCRETE IS BEING POURED.
- SUPPLY 6 COPIES OF SHOP DRAWINGS FOR REVIEW TO ARCHITECT. NO EQUIPMENT IS TO BE ORDERED PRIOR TO THEIR APPROVAL.
- MECHANICAL CONTRACTOR TO PROVIDE TWO (2) COMFORT BALANCE VISITS TO SUIT THE NEEDS OF THE CLIENTS.
- OPENING AND DUCT TRAVELING THROUGH FIRE RATED WALL, TENANT DEMISING WALL, MECHANICAL AND ELECTRICAL ROOM, WALL AND FLOOR PARTITION, FLOOR AND ROOF SLAB SHALL BE INSTALLED WITH "B"-FIRE DAMPER.
- DIFFUSERS, SUPPLY AND RETURN GRILLES, CEILING EXHAUST FAN, INSTALLED IN FIRE RATED CEILING SHALL BE PROVIDED WITH RADIATION DAMPER. SUPPLY AND RETURN DIFFUSER SHALL BE METAL/AIRE BZZZ FIRE RATED.
- PROVIDE MOTORIZED DAMPER AT FRESH AIR INTAKE DUCT CARRYING A QUANTITY EQUAL OR GREATER THAN TO 300 CFM OF FRESH AIR.
- MECHANICAL CONTRACTOR TO SUPPLY DUCT SMOKE DETECTOR IN EACH UNIT TO BE WIRED BY ELECTRICAL CONTRACTOR.
- PROVIDE CERTIFIED TEST & BALANCE
- PROVIDE HARDWIRED CONDENSATE PUMP WITH SHUTOFF SWITCH.

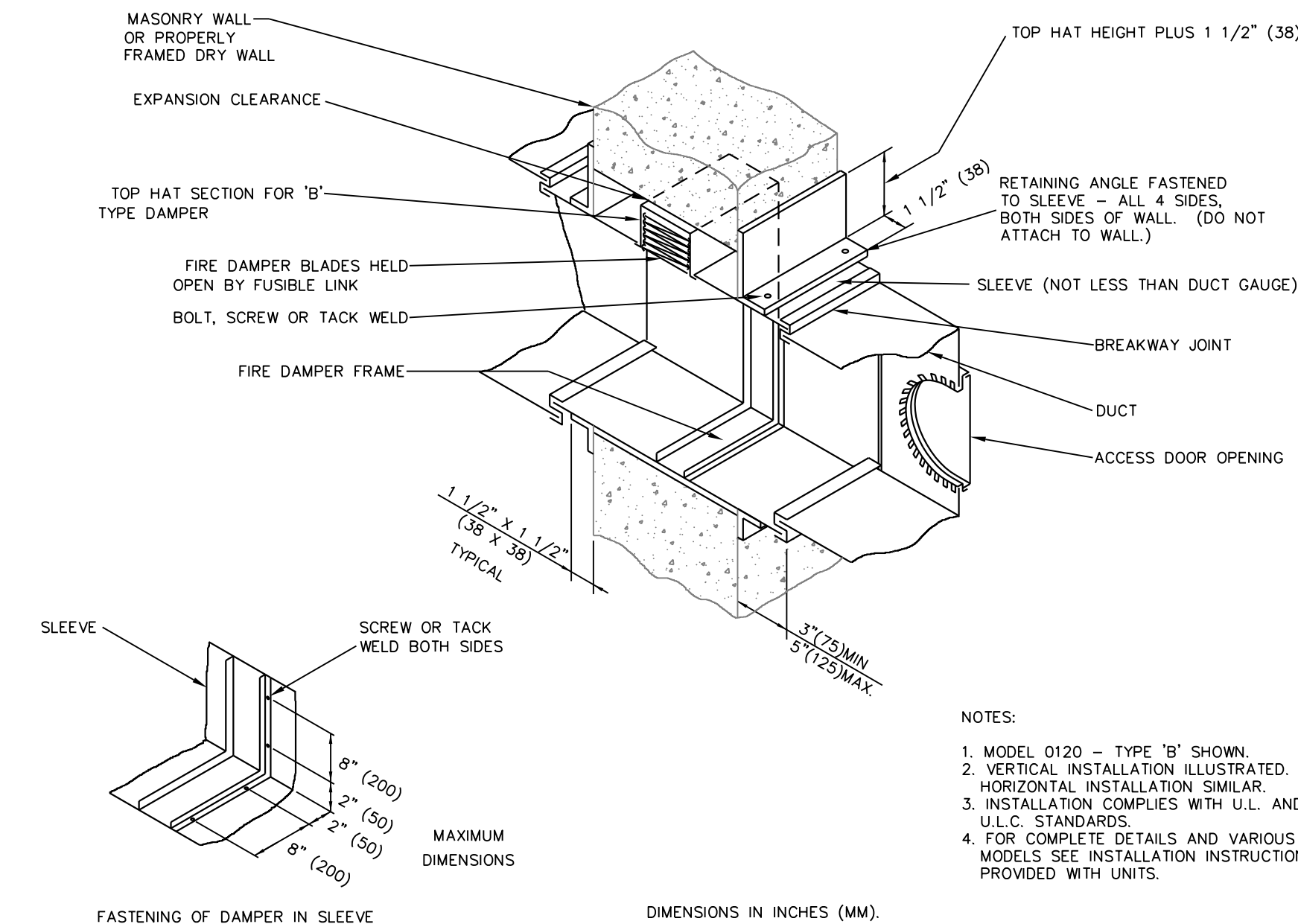
SITE VISIT

- MECHANICAL CONTRACTOR IS DULY REQUIRED TO VISIT PROJECT SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. HE OR SHE SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY AT ONCE. FAILURE TO DO SO, THE MECHANICAL CONTRACTOR IS PROCEEDING AT HIS OWN RISK.
- DESIGN THAT IS CALLED FOR NEW DUCT OR PIPING TO BE CONNECTED TO EXISTING SYSTEM REQUIRES THE CONTRACTOR TO VERIFY EXISTING DUCT & PIPING SIZE BEFORE FABRICATION AND INSTALLATION.
- WHENEVER INTERFERENCE OR CONFLICT OCCURS WITH THE PROPOSED DESIGN, BEFORE PROCEEDING TO ANY CHANGE OR DEVIATION FROM THE EXISTING BID, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR THE CHANGE INCLUDED A DETAILED DRAWING FOR APPROVAL FROM ARCHITECT/ ENGINEER.
- CONTRACTOR SHALL CONSULT WITH STRUCTURAL ENGINEER WHEN CUTTING OR MAKING OPENING IN ANY BUILDING COMPONENT. CONTRACTOR SHALL VERIFY THAT STRUCTURAL INTEGRITY OF THE BUILDING IS NOT BEING COMPROMISED.
- POST TENSION STRUCTURAL SLAB: NO CUTTING OR DRILLING SHALL BE TAKEN PLACE WITHOUT THE X-RAY OF THE SLAB OR THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF THE BUILDING.

HEAT PUMP MOUNTING DETAIL & CONDENSER WATER CONTROL PIPING



NAILOR-HART INDUSTRIES INC. TYPICAL INSTALLATION OF FIRE DAMPER



- NOTES:
- MODEL 0120 - TYPE 'B' SHOWN.
 - VERTICAL INSTALLATION ILLUSTRATED. HORIZONTAL INSTALLATION SIMILAR.
 - INSTALLATION COMPLIES WITH U.L. AND U.L.C. STANDARDS.
 - FOR COMPLETE DETAILS AND VARIOUS MODELS SEE INSTALLATION INSTRUCTIONS PROVIDED WITH UNITS.

LEGEND

BUILDING COMMENT/REV	ISSUE FOR REVIEW	NO.	DATE
		XX	

WESTON CAPITAL
ESPERANTE CORPORATE CENTER - SUITE 1550
222 LAKESVIEW AVE. - WEST PALM BEACH, FL.

H.V.A.C. DETAILS & SPECIFICATIONS

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YOSHINO TRIESCHMANN DESIGN GROUP, 2011
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Project No. **10.227.218**
CAD File No. **1133**
Date **1/21/11**
Drawing No.

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