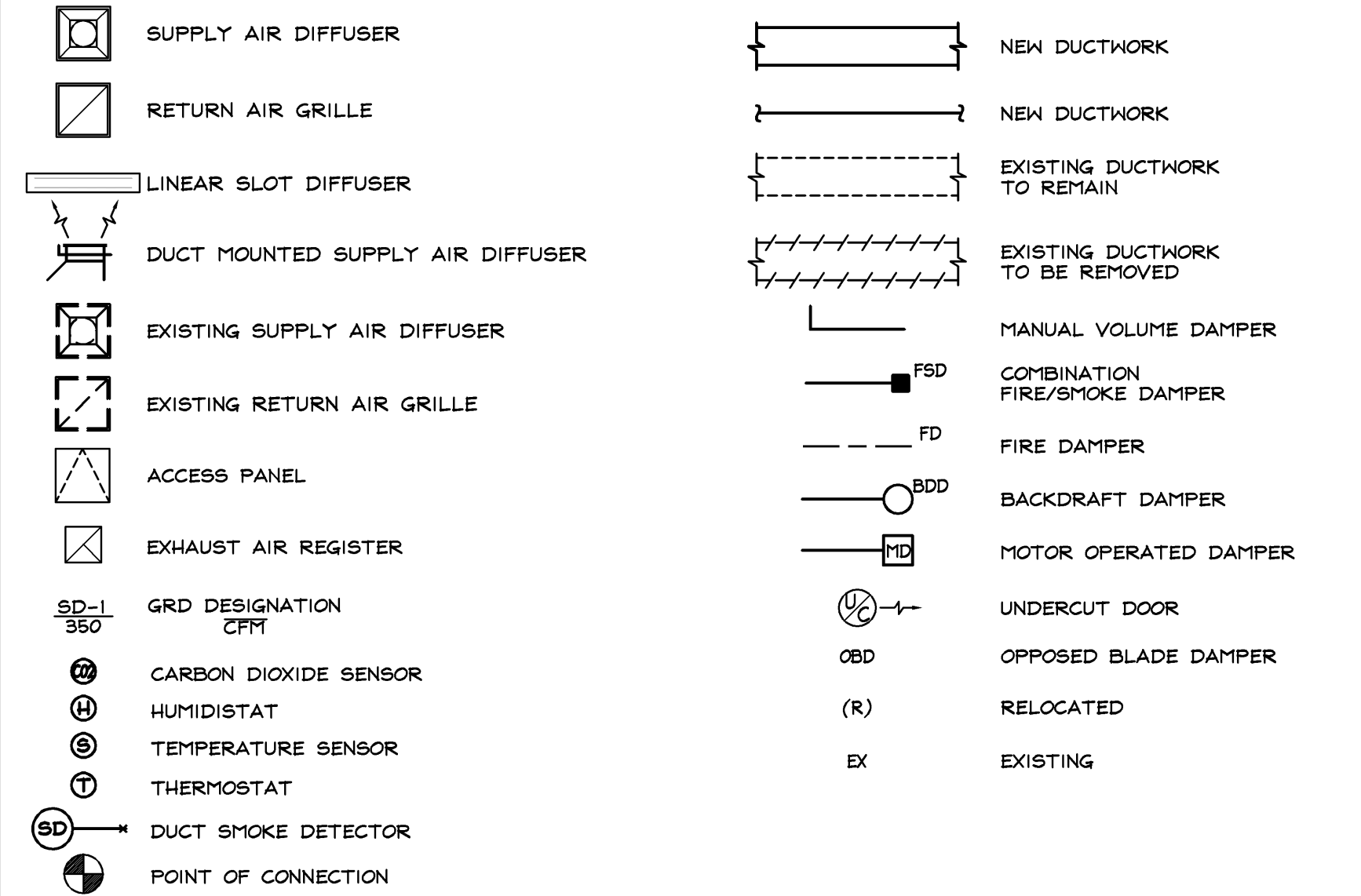


- GENERAL NOTES**
- ALL NOTES INCLUDED HEREIN ARE MADE PART OF EACH AND ALL MECHANICAL, ELECTRICAL AND PLUMBING SECTIONS OF WORK.
1. REFER TO LANDLORD'S SPECIFICATIONS AND TENANT DESIGN CRITERIA FOR NECESSARY INFORMATION AND COORDINATION WITH OTHER TRADES.
2. THE ABBREVIATION ESDC WHEREVER IT APPEARS IN THE DRAWINGS, SHALL REFER TO "EXPRESS STORE DESIGN AND CONSTRUCTION" ANY REFERENCE TO TENANT, BRAND SPECIFIC (EXPRESS, ETC.) OR FURNISHED BY ANY OF THE ABOVE REFERS TO ESDC.
3. ANY DISCREPANCY BETWEEN ESDC DRAWINGS AND TENANT CRITERIA, ESDC DRAWINGS SHALL TAKE PRECEDENCE.
4. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT ALL INSTALLED ITEMS AND LOCATIONS ARE NOT EXACTLY PLACED AND ARE NOT TO BE SCALED.
5. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELATED PERMITS AND INSPECTION FEES.
6. BEFORE COMMENCING ANY WORK, CONTRACTORS SHALL REVIEW THE LATEST NATIONAL, STATE AND LOCAL CODE REQUIREMENTS INCLUDING LANDLORD CRITERIA AND PERFORM THE WORK IN STRICT ACCORDANCE WITH THESE. IN CASE OF CONFLICT THE STRICTER REQUIREMENTS WILL PREVAIL.
7. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR ANY CHANGE ORDERS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID.
- A. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. FOR THE PURPOSE OF SURVEYING EXISTING CONDITIONS, WHICH MAY AFFECT THE WORK TO BE DONE UNDER THIS SECTION, DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE GENERAL CONTRACTOR, ESDC OR THE LANDLORD'S FIELD REPRESENTATIVE FOR CLARIFICATION.
- B. AFTER BID, ANY QUESTIONS RELATING TO SPECIFIC M, E, OR P ISSUES ARE TO BE DIRECTED AS RFI'S THROUGH THE ESDC PROJECT MANAGER.
- C. SHOULD THE SPACE HAVE BEEN INACCESSIBLE FOR INSPECTION CONTRACTOR MUST INDICATE SO ON HIS BID.
8. THE GENERAL CONTRACTOR'S FIRE SPRINKLER SUBCONTRACTOR SHALL DESIGN AND INSTALL FIRE SPRINKLER SYSTEM CONFORMING TO LANDLORD'S CRITERIA, TENANT'S REQUIREMENTS AND PER LOCAL CODES AND NFPA STANDARDS.
9. THE CONTRACTOR, WITHIN FIFTEEN (15) DAYS OF THE AWARD OF THE CONTRACT, SHALL SUBMIT TO THE OWNER, SIX (6) COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT PROPOSED FOR THE JOB INCLUDING ALL DATA, PART NUMBERS, RATING CAPACITY, SIZE, DIMENSIONS, ELECTRICAL DATA, MANUFACTURER, AND ANY OTHER DESCRIPTIVE DATA FOR ALL EQUIPMENT OR SYSTEMS THAT DEVIATE FROM SPECIFIED ITEMS. ANY DELAYS OR COSTS DUE TO THESE DEVIATIONS, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL UNUSED OR ABANDONED MATERIALS AND EQUIPMENT, AND ITS REMOVAL OFF THE LANDLORD'S PREMISES.
11. OWNER RESERVES THE RIGHT TO HAVE CONSTRUCTION REVIEWED BY AN OUTSIDE CONSULTANT PRIOR TO ACCEPTANCE OF THE PROJECT.
12. EACH CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP RELATED TO HIS WORK FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE WHICH THE OWNER ACCEPTS THE PROJECT. THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR TENANT SHALL CORRECT ANY DEFECTS IN MATERIALS OR WORKMANSHIP DURING THIS GUARANTEE PERIOD.
13. EACH CONTRACTOR SHALL BE RESPONSIBLE AND ENSURE A CLEAN INSTALLATION ESPECIALLY IN EXPOSED CEILING AREAS. THE FINAL APPROVAL OF THIS WORK WILL BE ISSUED BY ESDC PROJECT MANAGER.
14. PROVIDE THREE SETS OF "AS-BUILT" DRAWINGS AND TWO BOUND SETS OF ALL OPERATIONS MANUALS, DIAGRAMS, SERVICE CONTRACTS AND GUARANTEES TO FINAL PAYMENT. A REPORT OF THE CONTRACTOR TO THE GENERAL CONTRACTOR, ESDC OR AN INDEPENDENT AIR BALANCE CONTRACTOR, HIRED BY GC, MUST BE INCLUDED IN THE CLOSE-OUT PACKAGE.

- HVAC GENERAL NOTES**
1. THESE PLANS MAY BE USED FOR CONSTRUCTION ONLY AFTER APPROVAL IS OBTAINED FROM THE BUILDING DEPARTMENT. MECHANICAL PLAN CHECK DIVISION AND THAT DIVISION'S STAMPED APPROVAL AND AUTHORIZED SIGNATURE APPEAR ON THE PLANS.
2. COORDINATE ALL WORK WITH ALL TRADES INCLUDED BUT NOT LIMITED TO ELECTRICAL, PLUMBING, FIRE PROTECTION AND STRUCTURAL CONTRACTORS. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL MEMBERS. NO ITEM SUCH AS PIPE, DUCT, ETC. IS TO COME IN CONTACT WITH ANY EQUIPMENT.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION WORK.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATION.
5. CONTRACTOR SHALL PROVIDE CUT SHEETS TO ESDC FOR ALL EQUIPMENT AND DEVICES FURNISHED BY THE CONTRACTOR THAT DEVIATE FROM SPECIFIED ITEM FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OF ANY SUCH EQUIPMENT OR DEVICES.
6. HVAC CONTRACTOR IS RESPONSIBLE TO INQUIRE WITH THE LANDLORD'S REPRESENTATIVE ON ANY SMOKE EVACUATION SYSTEM IN USE AT THE HALL AT THE TIME OF THE BID. IF THE SAID SYSTEM IS NOT ADOPTED OR DESCRIBED ON THE DRAWINGS, THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO INFORM THE GENERAL CONTRACTOR AND INCLUDE THE COST AS A SEPARATE LINE ITEM IN THE BID. NO ADDITIONAL MONIES SHALL BE AWARDED FOR TIE-IN REQUIREMENTS TO A LANDLORD'S SMOKE EVACUATION SYSTEM THAT IS IN EXISTENCE AT THE TIME OF THE BID, WITHOUT HAVING IDENTIFIED A SEPARATE LINE ITEM FOR THE SMOKE EVACUATION SYSTEM AT THE TIME OF THE BID.
7. ACCESS TO ALL COMPONENTS AND EQUIPMENT MUST BE PROVIDED TO MEET CODE AND SERVICE/MAINTENANCE EASE.
8. PRIOR TO STARTUP OF HVAC EQUIPMENT, MECHANICAL CONTRACTOR WILL CONFIRM WITH ONE OF THE LISTED HVAC MANUFACTURER REPRESENTATIVES THAT CORRECT POWER FOR EQUIPMENT HAS BEEN PROVIDED TO ESDC PROVIDED HVAC UNITS AND HAS BEEN TURNED ON FOR A MINIMUM OF 24 HOURS. ESDC RESERVES THE RIGHT TO CHECK CONSTRUCTION COMPLIANCE WITH PLANS AND SPECIFICATIONS. SHOULD THE OWNER FIND CORRECTIVE WORK TO BE NECESSARY, HE WILL NOTIFY CONTRACTOR OF SUCH WORK IN WRITING AND DIRECT COMPLIANCE PERFORMED WITH DUE DILIGENCE. IF ANY CORRECTIVE WORK IS DEEMED TO BE NECESSARY, THE COST OF REINSPECTIONS WILL BE BORNE BY THE CONTRACTOR. THE MECHANICAL CONTRACTOR WILL THEN ENSURE THAT THE EQUIPMENT IS POWERED FOR A MINIMUM OF 24 HOURS PRIOR TO STARTUP.
9. IF WORK IS REQUIRED TO IMPROVE, CHANGE OR CORRECT AIR CONDITIONING OPERATIONAL CONDITIONS DUE TO PART MALFUNCTION, WARRANTY OR OTHER INABILITY TO PROVIDE THE COMFORT CONDITIONS REQUIRED BY THE STORE, CONTRACTOR SHALL BE DIRECTED BY ESDC TO ADDRESS THIS WORK IN A TIMELY MANNER. IF IT BECOMES EVIDENT THAT THE CONTRACTOR CANNOT ACCOMPLISH THE TASK, THEN AFTER 12 HOURS OF WRITTEN NOTICE THE OWNER MAY, AT HIS DISCRETION, TAKE OVER SUCH WORK AND BACK CHARGE THE CONTRACTOR FOR ANY CORRECTIVE WORK THAT HAS REQUIRED DUE TO LACK OF PERFORMANCE, WORKMANSHIP AND/OR ADHERENCE TO PLANS AND SPECIFICATIONS.
10. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL VERIFY THE PROPER WORKING ORDER OF THE SYSTEM(S) AND MAKE ANY ADJUSTMENTS AS REQUIRED.
11. PROVIDE FILTER CHANGES THROUGHOUT CONSTRUCTION AS REQUIRED FOR ALL HVAC EQUIPMENT. PROVIDE FILTER CHANGES AT LEAST ONCE MONTHLY ONCE STARTED, PRIOR TO TEST AND BALANCE, AND LASTLY, PRIOR TO RECHARGING. IF EQUIPMENT OR DUCTWORK THAT BECOMES SOILED DUE TO A LACK OF FILTER CHANGES, AS DETERMINED SOLELY BY THE ESDC PROJECT MANAGER, SHALL BE CORRECTED ON BEHALF OF THE CONTRACTOR AND CHARGES BILLED TO THE CONTRACTOR.
12. EQUIPMENT SCHEDULE NOTES MAY USE THE WORDS "FURNISH" AND "PROVIDE", WHERE THE WORD "FURNISH" IS USED, SOME FIELD INSTALLATION IS REQUIRED BY THE CONTRACTOR WHERE THE WORD "PROVIDE" IS USED, NO FIELD INSTALLATION IS REQUIRED AS THE DEVICES OR ACCESSORIES ARE FURNISHED AND INSTALLED BY THE MANUFACTURER AS PART OF THE EQUIPMENT WHEN SHIPPED.
13. UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, MATERIAL, LABOR AND SUPERVISION NECESSARY TO COMPLETE THE HEATING, VENTILATING AND AIR CONDITIONING WORK IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARDS AS OUTLINED HEREIN. SEE RESPONSIBILITY SCHEDULE ON SHEET 1041.
14. MECHANICAL CONTRACTOR SHALL FIELD MEASURE EXISTING ROOF CURB(S) FOR CURB ADAPTER(S), WHERE APPLICABLE, AND SHALL SUPPLY DIMENSIONS TO ESDC HVAC SUPPLIER PRIOR TO START OF CONSTRUCTION.
15. ALL HEATING VENTILATING AND AIR CONDITIONING EQUIPMENT, INSIDE SPACE OR OUTSIDE SPACE, SHALL BE CLEARLY IDENTIFIED WITH TENANT'S NAME, SPACE NUMBER AND UNIT DESIGNATION WHICH SHALL BE STENCILED IN 4" HIGH BLACK LETTERS. THIS IS IN ADDITION TO ANY LANDLORD REQUIREMENTS FOR UNIT LABELING.
16. FURNISH AND INSTALL ALL NEW DUCTWORK AND INSTALL OWNER SUPPLIED PLENUM BOOTS, SUPPLY AIR DIFFUSERS, AND RETURN AIR GRILLES. SEE AIR DEVICE SCHEDULE ON THIS SHEET.
- A. ALL MATERIAL SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR UNDERWRITER'S LABORATORY (UL/ULC) AND UNION LABELS WHERE SUCH LABELING APPLIES.
- B. ALL PLENUM'S SHALL BE FABRICATED FROM GALVANIZED SHEET METAL OF THE APPROPRIATE GAUGE AND BE INSULATED WITH A MINIMUM OF 1" THICK 0.75 LB/SQ.FT. DENSITY FIBERGLASS INSULATION WITH ALUMINUM FOL BACKED VAPOR BARRIER.
- C. WHERE INDICATED AND AS NEEDED FOR BALANCING, BRANCHES FROM MAIN TRUNK DUCTWORK SHALL BE FURNISHED WITH SPLITTERS, DAMPERS OR SIMILAR BALANCING DEVICES IN ACCORDANCE WITH THE STANDARDS OF SHACNA.
- D. ALL DUCTS FOR FINAL CONNECTION TO DIFFUSERS SHALL BE CLASS 1 UL/ULC LISTED (SL 181) FLEXIBLE AIR DUCT NOT TO EXCEED 4'-0" IN LENGTH (THERMAPLEX, GLASFLEX, OR APPROVED EQUAL).
- E. SUPPLY AND RETURN DUCTWORK SHALL BE LINED FOR ACOUSTIC INSULATION AND HAVE CODE COMPLYING WRAP INSULATION. ALL MATERIALS SHALL COMPLY WITH NFPA 90A AND 90B. SEE SPECIFICATIONS ON SHEET 1011 FOR MORE INFORMATION.
- F. HANGER WIRES, DUCT STRAPS, FASTENING DEVICES, ETC. SHALL BE FASTENED TO THE STEEL JOISTS AND/OR BEAMS ABOVE. DO NOT ATTACH ANY SUCH ITEMS DIRECTLY TO FLOOR SLABS, PIPING, OTHER DUCTWORK, ELECTRICAL CONDUITS OR THE ROOF DECK ABOVE.
- G. CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR AND MATERIALS (STRUCTURAL SUPPORT, VIBRATION ISOLATION, SEISMIC SUPPORT, ETC.) AS REQUIRED BY LOCAL CODE FOR AN APPROVED INSTALLATION OF ALL DUCTWORK, EQUIPMENT AND AIR DEVICES.
- H. ADDITIONAL FIRE DAMPERS SHOULD BE INSTALLED AS REQUIRED BY ANY APPLICABLE CODES AND/OR JURISDICTIONAL AUTHORITIES.
17. SEAL AROUND PIPES AND DUCTS PENETRATING FIRE SEPARATIONS WITH LISTED AND APPROVED FIRE SEAL MATERIAL. ONLY LISTED AND APPROVED SEALANTS AND METHODS FOR THE SPECIFIC USE WILL BE PERMITTED.
18. MECHANICAL CONTRACTOR SHALL INSTALL ANN CONTROLS (TEMPERATURE SENSORS, CO2 SENSORS, HUMIDITY SENSORS) AS INDICATED ON THE PLAN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL HVAC SYSTEM (VERIFY ALL REQUIREMENTS WITH LOCAL CODES, EXISTING CONDITIONS, LANDLORD AND HVAC EQUIPMENT SUPPLIER). FIELD VERIFY AND COORDINATE FINAL LOCATION WITH ESDC PROJECT MANAGER.
19. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL FULLY PRESSURE CHECK AND CHARGE ALL REFRIGERANT SYSTEMS (WHERE APPLICABLE, IF NOT FACTORY CHARGED).
20. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT AIR/WATER BALANCING COMPANY THAT IS NEBB CERTIFIED CONTRACTOR OR HAS AN ESDC CERTIFIED TEST & BALANCE ENGINEER. THIS COMPANY SHALL PERFORM THE BALANCING OF AIR/WATER SYSTEM(S) AND MAKE ANY REQUIRED ADJUSTMENTS TO ENSURE PROPER WORKING ORDER. UPON COMPLETION, THE BALANCING COMPANY SHALL PROVIDE A COMPLETE SYSTEM REPORT, INCLUDED AS A COVER TO THIS REPORT SHALL BE A COMPLETED EXPRESS BRANDS HVAC BALANCE CERTIFICATION FORM.

HVAC GENERAL NOTES



HVAC SYMBOLS LEGEND

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HVAC ABBREVIATION DEFINITIONS

NOTE TO CONTRACTOR	
ITEM(S) NOT SHOWN ON ANY OF THE RESPONSIBILITY SCHEDULES ARE THE RESPONSIBILITY OF THE CONTRACTOR.	

ABBREVIATIONS, RESPONSIBILITY SCHEDULES			
AC	HVAC EQUIPMENT SUPPLIER	GC	GENERAL CONTRACTOR
AUJ	AUTHORITY HAVING JURISDICTION	LC	LANDLORD CONTRACTOR
BAS	BUILDING AUTOMATION SYSTEM	LD	LIGHTING PACKAGE DISTRIBUTOR
EC	ELECTRICAL CONTRACTOR	LL	LANDLORD
FAC	FIRE ALARM CONTRACTOR	ESD/C	EXPRESS STORE DESIGN & CONSTRUCTION
		MC	MECHANICAL CONTRACTOR

LOCAL AREA REQUIREMENTS			
YES	NO	YES	NO
<input type="checkbox"/> 1. SMOKE EVACUATION	<input type="checkbox"/> 5. SPECIAL CURB HEIGHT REQUIREMENTS		
<input type="checkbox"/> 2. CARBON DIOXIDE MONITORING	<input type="checkbox"/> 6. FIVE MILE COASTAL PROXIMITY		
<input type="checkbox"/> 3. HURRICANE ZONE	<input type="checkbox"/> 7. OTHERS, I.E. METHANE, CARBON MONOXIDE, SOUND SENSITIVE, ETC. DESCRIPTION. . .		
<input type="checkbox"/> 4. SEISMIC ZONE			

CONTROLS CHECKLIST			
Y	N	Y	N
<input type="checkbox"/> STANDARD BAS IN IF5	<input type="checkbox"/> ENTHALPHY ECONOMIZER	<input type="checkbox"/> FIRE ALARM TIE-IN	
<input type="checkbox"/> STANDARD BAS IN PANEL	<input type="checkbox"/> DRY-BULB ECONOMIZER	<input type="checkbox"/> LOW AMBIENT OPERATION	
<input type="checkbox"/> MONITORING SYSTEM IN IF5	<input type="checkbox"/> HUMIDITY CONTROL	<input type="checkbox"/> VALVE/PUMP CONTROL	
<input type="checkbox"/> COMPLETE LANDLORD BAS CONTROL SYSTEM	<input type="checkbox"/> DEHANT CONTROL VENTILATION	<input type="checkbox"/> LANDLORD TIE-IN (ON/OFF, WINTER/SUMMER, ETC.)	
	<input type="checkbox"/> SMOKE EVACUATION		

HVAC RESPONSIBILITY SCHEDULE NOTES			
AABC	AMERICAN AIR BALANCE COUNCIL	ID	INSIDE DIMENSION
AC	AIR CONDITIONING UNIT	IN	INCH
AD	AIR COOLED CONDENSING UNIT	KN	KILOWATT
AD	ACCESS DOOR	LB	POUND
AFF	ABOVE FINISH FLOOR	LD	LINEAR DIFFUSER
AHU	AIR HANDLING UNIT	LF	LINEAR FEET
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS	MAX	MAXIMUM
BDD	BACK DRAFT DAMPERS	MBH	THOUSAND BTU PER HOUR
BHP	BRAKE HORSEPOWER	MC	MECHANICAL CONTRACTOR
BLDG	BUILDING	MC	MECHANICAL CONTRACTOR
BOB	BOTTOM OF DUCT	MECH	MECHANICAL
BOP	BOTTOM OF PIPE	MANUFACTURER	
BTUH	BRITISH THERMAL UNIT PER HOUR	MC	MECHANICAL CONTRACTOR
CAP	CAPACITY	MC	MECHANICAL CONTRACTOR
CD	CONDENSATE DRAIN	MTD	MOUNTED
CFM	CUBIC FEET PER MINUTE	MTD	MOUNTED
CHWR	CHILLED WATER RETURN	MTD	MOUNTED
CHWS	CHILLED WATER SUPPLY	MTD	MOUNTED
CLG	CEILING	MTD	MOUNTED
CONT	CONTINUE	MTD	MOUNTED
CONTR	CONTRACTOR	MTD	MOUNTED
COP	COEFFICIENT OF PERFORMANCE	MTD	MOUNTED
CN	DOMESTIC COLD WATER	MTD	MOUNTED
CNR	CONDENSER WATER RETURN	MTD	MOUNTED
CHS	CONDENSER WATER SUPPLY	MTD	MOUNTED
D	DEGREE	MTD	MOUNTED
DB	DRY BULB	MTD	MOUNTED
DI	DIAMETER	MTD	MOUNTED
DIA	DIAMETER	MTD	MOUNTED
DIP	DIP	MTD	MOUNTED
DL	DOOR LOUVER	MTD	MOUNTED
DN	DOWN	MTD	MOUNTED
DNG	DRAINING	MTD	MOUNTED
EA	EXHAUST AIR	MTD	MOUNTED
EAT	ENTERING AIR TEMPERATURE	MTD	MOUNTED
EC	ELECTRICAL CONTRACTOR	MTD	MOUNTED
EER	ENERGY EFFICIENCY RATIO	MTD	MOUNTED
EFF	EFFICIENCY	MTD	MOUNTED
EG	EXHAUST AIR GRILLE	MTD	MOUNTED
ELBC	ELECTRIC	MTD	MOUNTED
ELV	ELEVATION	MTD	MOUNTED
ENC	ENCLOSURE	MTD	MOUNTED
EQV	EQUIVALENT	MTD	MOUNTED
ESP	EXHAUST AIR REGISTER	MTD	MOUNTED
ESP	EXTERNAL STATIC PRESSURE	MTD	MOUNTED
ENC	ELECTRIC WATER COOLER	MTD	MOUNTED
EXH	EXHAUST	MTD	MOUNTED
EX	EXISTING	MTD	MOUNTED
F	FAHRENHEIT	MTD	MOUNTED
FCU	FAN COIL UNIT	MTD	MOUNTED
FLA	FULL LOAD AMPS	MTD	MOUNTED
FLEX	FLEXIBLE	MTD	MOUNTED
FLR	FLOOR	MTD	MOUNTED
FPM	FEET PER MINUTE	MTD	MOUNTED
FPS	FEET PER SECOND	MTD	MOUNTED
FSD	COMBINATION FIRE/SMOKE DAMPER	MTD	MOUNTED
G	GAS	MTD	MOUNTED
GAL	GALLONS	MTD	MOUNTED
GALV	GALVANIZED	MTD	MOUNTED
GC	GENERAL CONTRACTOR	MTD	MOUNTED
GPM	GALLONS PER MINUTE	MTD	MOUNTED
GRD	GRILLE, REGISTER OR DIFFUSER	MTD	MOUNTED
H	HEIGHT	MTD	MOUNTED
HD	HEAD	MTD	MOUNTED
HV	HORSEPOWER	MTD	MOUNTED
HVR	HEATING RETURN	MTD	MOUNTED
HVAC	HEATING VENTILATING AND AIR CONDITIONING	MTD	MOUNTED
HN	DOMESTIC HOT WATER	MTD	MOUNTED
HNR	HEATING HOT WATER RETURN	MTD	MOUNTED
HNS	HEATING HOT WATER SUPPLY	MTD	MOUNTED

HVAC RESPONSIBILITY SCHEDULE NOTES

AABC	AMERICAN AIR BALANCE COUNCIL	ID	INSIDE DIMENSION
AC	AIR CONDITIONING UNIT	IN	INCH
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AD	ACCESS DOOR	LB	POUND
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CLG	CEILING	MTD	MOUNTED
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DL	DOOR LOUVER	MTD	MOUNTED
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EXH	EXHAUST	MTD	MOUNTED
EX	EXISTING	MTD	MOUNTED
F	FAHRENHEIT	MTD	MOUNTED
FCU	FAN COIL UNIT	MTD	MOUNTED
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G	GAS	MTD	MOUNTED
GAL	GALLONS	MTD	MOUNTED
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HNS	HEATING HOT WATER SUPPLY	MTD	MOUNTED

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HVAC ABBREVIATION DEFINITIONS

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HVAC RESPONSIBILITY SCHEDULES

WATER SOURCE HEAT PUMP (WSHP) RESPONSIBILITY SCHEDULE									
ITEM	FURNISHED BY		INSTALLED OR PERFORMED BY		RE-USE		N/A	REMARKS	
	ESD/C	VENDOR	LANDLORD	CONTR.	LANDLORD	CONTR.	OTHER		
WATER SOURCE HEAT PUMP	AC				MC				
DISCONNECT SWITCH				EC	EC				
UNIT CONTROLLER	AC				AC			INTEGRAL TO UNIT	
CONDENSATE PAN OVERFLOW AND WATER FLOW SWITCHES				MC	MC			FINAL CONNECTION BY MC	
FLEXIBLE HOSE KIT (STRAINER, FLEX PIPE, CIRCUIT SETTER, SHUT-OFF VALVES, ETC.)	AC				MC			COORDINATE DETAILS WITH MANUFACTURER	
STRUCTURAL SUPPORT STEEL MODIFICATIONS AS REQUIRED				MC	MC			REFER TO STRUCTURAL DRAWINGS	
VIBRATION ISOLATION DEVICES	AC				MC				
SUPPLY AIR TEMPERATURE SENSOR	AC				MC			MOUNT IN DUCT CLOSE TO UNIT	
CLAMP TO PIPE TEMP SENSORS FOR CONDENSER WATER SUPPLY AND RETURN	AC				MC			FINAL CONNECTION BY MC	
DUCT SMOKE DETECTOR				FAC	MC			PROVIDED BY MC WHEN NO FIRE ALARM SYSTEM	
MOTOR OPERATED DAMPER FOR OUTSIDE AIR				MC	MC				
CONTROL ACTUATORS FOR MOTOR OPERATED DAMPERS	AC				MC			FINAL CONNECTION BY MC	
CONDENSER WATER BYPASS COIL FOR WATER SIDE ECONOMIZER	AC				AC			INTEGRAL TO UNIT	

FAN POWERED AND NON-FAN POWERED VARIABLE AIR VOLUME BOX (VAV) RESPONSIBILITY SCHEDULE									
ITEM	FURNISHED BY			INSTALLED OR PERFORMED BY			RE-USE EXISTING	N/A	REMARKS
	ESD/C VENDOR	LANDLORD	CONTR.	LANDLORD	CONTR.	OTHER			
PARALLEL FAN POWERED VAV BOX WITH ELECTRIC HEAT	AC					MC			COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR - REFER TO EQUIPMENT SCHEDULE FOR HEATER AND FAN MOTOR VOLTAGES AND REQUIRED NEUTRAL CONDUCTOR
SERIES FAN POWERED VAV BOX WITH ELECTRIC HEAT								●	
NON-FAN POWERED VAV BOX WITH ELECTRIC HEAT								●	
UNIT MOUNTED CONTROL ENCLOSURE WITH INTEGRAL ELECTRICAL DISCONNECT	AC						AC		
UNIT CONTROLLER WITH INTEGRATED ACTUATOR	AC						AC		FACTORY MOUNTED IN ENCLOSURE
SUPPLY AIR TEMPERATURE SENSOR	AC					MC			MOUNT IN DUCT CLOSE TO UNIT