

CALL OUT SYMBOLS

UC (1/2")

LVDR (1.5)

CONNECT NEW TO EXISTING

DUCTWORK OR PIPING RISER

DIFFUSER, GRILLE, REGISTER LETTER DESIGNATOR (See schedule for ATD type)

LIMIT OF REMOVAL

DESIGNATION

REVISION NUMBER

SECTION DESIGNATION

H3.1 SHEET NUMBER

DETAIL DESIGNATION
SHEET NUMBER

TEMPERATURE SENSOR OR HUMIDISTAT

HUMIDITY SENSOR OR HUMIDISTAT

PRESSURE TRANSMITTER

CARBON DIOXIDE SENSOR

REFRIGERANT SENSOR

LOUVERED DOOR

SUPPLY AIR FLOW

24X24 ACCESS PANEL

LINE VOLTAGE THERMOSTAT

TEMPERATURE SENSOR WITH INSULATED BASE

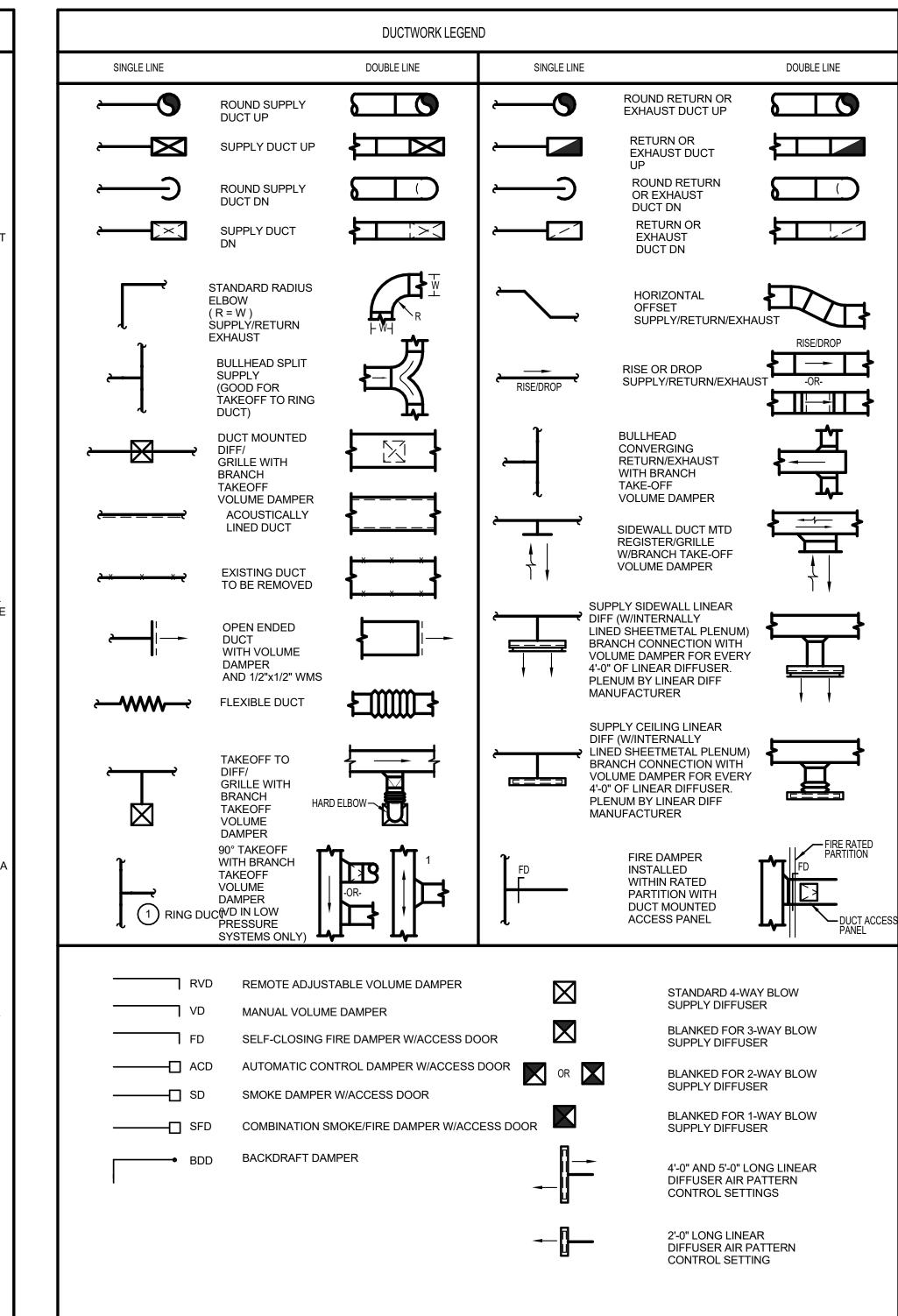
UNDERCUT DOOR (UNDER CUT DIMENSION)

(FREE AREA OF LOUVER IN SQUARE FEET)

RETURN OR EXHAUST AIR FLOW

(REFER TO CONTROL ABBREVIATIONS FOR ADDITIONAL NOMENCLATURE)			GENERAL NOTES			
S FAHRENHEIT	ID	INSIDE DIAMETER	1.	GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL "M-XXX" SERIES DRAWINGS.		
CELSIUS R	IN INSUL	INCHES INSULATION	2.	REFER TO REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR TERMINAL DEVICES.		
TIC AIR VENT	KW	KILOWATT	3.	DRAWINGS ARE DIAGRAMMATIC, DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.		
DITIONING LED CONDENSER	KVA	KILOVOLT AMPERE	4.	COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS.		
ED CONDENSING UNIT	L	LENGTH				
FIC CONTROL DAMPER (W/ACCESS	LAT LBS	LEAVING AIR TEMPERATURE POUNDS	5.	REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
DITIONING UNIT FIC CONTROL VALVE	LVG LWT	LEAVING LEAVING WATER TEMPERATURE	6.	COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS.		
DOOR N'S WITH DISABILITIES ACT	M MAV	ONE THOUSAND MANUAL AIR VENT	7.	SHEETMETAL FITTINGS SHOWN ARE TO BE PROVIDED. NO SUBSTITUTES SHALL BE ALLOWED WITHOUT PRIOR CONSE FROM ENGINEER.		
INISHED FLOOR DLING UNIT TE	MAX MBH	MAXIMUM THOUSAND BRITISH THERMAL UNITS PER HOUR	8.	RUN DUCTS AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS. ALL DUCTWORK SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO WALL AND UNDERSIDE OF BEAMS AND JOISTS.		
PANEL SURE DROP	MCA MCC MD	MINIMUM CIRCUIT AMPS MOTOR CONTROL CENTER MOTORIZED DAMPER	9.	ALL EQUIPMENT REQUIRING ACCESS AND MAINTENANCE SHALL BE INSTALLED A MAXIMUM OF 2 FEET ABOVE FINISHE CEILING UNLESS OTHERWISE INDICATED ON FLOOR PLANS OR BY BUILDING ENGINEER.		
RATOR IC TEMPERATURE CONTROL	MIN N/A	MINIMUM NOT APPLICABLE	10.	INSTALL THERMOSTATS AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ARCHITECT. MOUNTING HEIGHT AFF SHALL COMPLY WITH ADA.		
AFT DAMPER RD INCLINED	NC NIC	NOISE CRITERIA NOT IN CONTRACT	11.	EXTERIOR LOUVERS ARE INDICATED FOR LOCATION ONLY.		
ORSEPOWER OF DUCT OF PIPE	NOM NTS NPSH	NOMINAL NOT TO SCALE NET POSITIVE SUCTION HEAD	12.	ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDE DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.		
TISH THERMAL UNIT	OA OBD	OUTSIDE AIR OPPOSED BLADE DAMPER	13.	VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.		
Y ET PER MINUTE	OED OB ODP	OPEN END DUCT OCTAVE BAND OPEN DRIP PROOF	14.	ACCESS PANELS SHALL BE PROVIDED TO CLEAN COILS AND SERVICE DAMPERS, HEATERS, VALVES AND ALL CONCEALED MECHANICAL EQUIPMENT.		
.INE UT UNIT HEATER LLED WATER RETURN	OV P PD	OUTLET VELOCITY PUMP PRESSURE DROP	15.	SUPPORT ALL EQUIPMENT, PIPING AND DUCTWORK FROM BUILDING STRUCTURE TO PROVIDE A VIBRATION FREE INSTALLATION. PROVIDE TO GC A LIST OF ALL WEIGHTS AND METHODS OF SUPPORT FOR COORDINATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
LLED WATER SUPPLY SER WATER RETURN SER WATER SUPPLY	PH POS PSID	PHASE PROVIDED BY OTHER SECTION(S) POUNDS PER SQUARE INCH DIFFERENTIAL	16.	SMOKE DETECTORS SHALL BE FURNISHED AND WIRED TO THE FIRE ALARM SYSTEM BY DIVISION 28. DIVISION 23 SHAI MOUNT THE DETECTORS IN DUCTWORK, WHERE REQUIRED BY CODE, DIVISION 28 SHALL WIRE THE DETECTORS TO T		
B TEMPERATURE	PSIG PVC	POUNDS PER SQUARE INCH GAUGE POLYVINYL CHLORIDE		BAS SYSTEM AND FAN STARTERS FOR SHUTDOWN.		
IGITAL CONTROL	RD	REFRIGERANT DISCHARGE (HOT GAS)	17.	ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC, AND DIV. 26 SPECIFICATIONS.		
ECT DIGITAL CONTROL FIELD R	RHC RL RS	REHEAT COIL REFRIGERANT LIQUID REFRIGERANT SUCTION	18.	INTERNAL AIR FLOW DIMENSIONS ARE SHOWN FOR DUCTS. CONTRACTOR SHALL INCREASE SIZE FOR LINER IF APPLICABLE.		
FF VALVE	RTU RH RPM	ROOF TOP UNIT RELATIVE HUMIDITY	19.	ALL MATERIALS AND EQUIPMENT SHALL BE NEW.		
WIDTH DOUBLE INLET EXPANSION	SA SATT SD	REVOLUTIONS PER MINUTE SUPPLY AIR SOUND ATTENUATOR SMOKE DAMPER (W/ACCESS DOOR)	20.	PROVIDE FIRE DAMPERS OR SMOKE/FIRE DAMPERS AND ASSOCIATED ACCESS PANELS WHERE SHOWN ON DRAWING IN COMPLIANCE WITH IMC 2018 AND NFPA 90A. FOR DUCTS THAT PENETRATE FIRE WALLS, FLOORS AND PARTITIONS PROVIDE SLEEVES WHERE PENETRATIONS ARE NOT PERPENDICULAR TO SURFACE PENETRATED. ENCLOSE DAMPER IN 10 GAUGE STEEL SLEEVE.		
G AIR TEMPERATURE CY DN MANAGEMENT SYSTEM	SDET SENS SQFT S.S.	SMOKE DETECTOR SENSIBLE SQUARE FEET STAINLESS STEEL	21.	PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTS CONNECTING TO FANS AND AIR HANDLING UNITS UNLESS INTERNALLY ISOLATED. ALL DUCTS TO BE GROUNDED ACROSS FLEXIBLE CONNECTION WITH FLEXIBLE COPPER GROUNDING STRAPS.		
G L STATIC PRESSURE	SFD (W/ACCESS	COMBINATION SMOKE/FIRE DAMPER	22.	ALL RETURN AIR OPENINGS ABOVE CEILING SHALL BE PROVIDED WITH A 1/2" MESH ALUMINUM SCREEN (80% FREE AR MINIMUM).		
G WATER TEMPERATURE EA	SGD SP	DOOR) SLIDE GATE DAMPER STATIC PRESSURE	23.	ANY DEMOLITION SHALL BE COORDINATED WITH OWNER, ARCHITECT, G.C. AND ENGINEER.		
	SWSI	SINGLE WIDTH SINGLE INLET	24.	ELBOWS IN DUCT SYSTEMS SHALL BE FULL RADIUS (CENTERLINE RADIUS = 1.5 DUCT WIDTH) WHERE SPACE PERMITS		
D CURVED UNIT IPER (W/ ACCESS DOOR)	TEMP	TEMPERATURE		WHERE LIMITED CLEARANCE OCCURS, PROVIDE SHORT RADIUS ELBOW WITH FULL LENGTH SPLITTER VANES PER SMACNA. MITERED (SQUARE) ELBOWS WITH TURNING VANES MAY NOT BE SUBMITTED WITHOUT WRITTEN CONSENT FROM THE ENGINEER.		
INCH TUBE RADIATION R MINUTE IKE DAMPER	TOD TOP TSP TYP	TOP OF DUCT TOP OF PIPE TOTAL STATIC PRESSURE TYPICAL	25.	MANUAL DAMPERS ARE NOT SHOWN ON THE DRAWINGS IN ORDER FOR DRAWING CLARITY. PROVIDE MANUAL ADJUSTABLE DAMPERS ON EACH LOW PRESSURE SUPPLY RETURN AND EXHAUST DUCT TAKE OFF, AND AT EACH TAK OFF TO REGISTERS, GRILLES AND DIFFUSERS.		
EET PER SECOND	V VD	VOLTS VOLUME DAMPER (MANUAL)	26.	CONDENSATE DRAIN PIPING SHALL PITCH AT 1/8"/FOOT.		
zed	VEL VFD	VELOCITY VARIABLE FREQUENCY DRIVE	27.	PROVIDE HANGERS, CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.		
CONTRACTOR PER HOUR	W WB	WIDTH WET BULB TEMPERATURE	28.	PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.		
PER MINUTE WALL BOARD	WC WCC	WATER COLUMN WATER COOLED CONDENSER	29.	PROVIDE AT LEAST THREE-ELBOW SWING FOR PIPE TAKE-OFFS TO TERMINAL EQUIPMENT AND RISERS.		
WY LE BOY IN B	WCCU WPD WMS	WATER COOLED CONDENSING UNIT WATER PRESSURE DROP	30.	ISOLATION VALVES IN PIPING SYSTEMS ARE NOT SHOWN ON PLANS (FOR CLARITY) BUT ARE REQUIRED AT ALL PIPE BRANCHES AND CONNECTIONS TO EQUIPMENT REFER TO DETAIL SHEETS AND FLOW DIAGRAMS.		
OWER	X	WIRE MESH SCREEN EXISTING EQUIPMENT TO BE REMOVED	31.	CONTRACTOR SHALL REVIEW BASE BUILDING STANDARDS AND COMPLY WITH CONSTRUCTION PROCEDURES AND		
BB CONN W/CHAINED CAP COVERY COIL - GLYCOL HW HOT	XM XN XR	EXISTING EQUIPMENT TO REMAIN EXISTING EQUIPMENT IN NEW LOCATION EXISTING EQUIPMENT TO BE RELOCATED	32.	REQUIREMENTS THROUGHOUT. ALL PIPING, DUCTWORK, AND HVAC SHALL BE LABELED IN ACCORDANCE WITH THE GUIDANCE SET FORTH IN THE MER		
ER RETURN ER SUPPLY				DESIGN STANDARDS.		

DESIGN STA	ANDARDS. ANELS MUST BE PROV	IDED FOR ALL BASE E	D IN ACCORDANCE WITH THE GUIDANCE SET FORTH BUILDING COMPONENTS TO INCLUDE, BUT NOT LIMIT RS AND CONTROL VALVES.
	IPMENT SYMBO		AND CONTROL VALVES.
SYMBOL	IDENTIFICATION/ TAG	DESCRIPTOR	
		VARIABLE AIR VOLUME TERMINAL BOX WITHOUT HEATING COIL	
		VARIABLE AIR VOLUME TERMINAL BOX WITH HEATING COIL	
	FCU # (GPM)	CONCEALED FAN COIL UNIT (WITH AUXILIARY DRAIN PAN)	



	PIPE AND VAL		
_	GATE VALVE	VB	VACUUM BREAKER
- !	BALL VALVE	——X——	SOLENOID VALVE
- !	BALL VALVE WITH MEMORY STOP (BALANCING VALVE)		PRESSURE/TEMPERATURE WELL
	BALL VALVE WITH HOSE BIBB, CAP & CHAIN (DRAIN VALVES)	<u> </u>	AUTOMATIC AIR VENT WITH ISOLATION VALVE
- '	BUTTERFLY VALVE		MANUAL AIR VENT (UTLIZING PLUG VALVE)
	BUTTERFLY VALVE WITH MEMORY STOP (BALANCING VALVE)		REDUCER (ECCENTRIC-FLAT ON BOTTOM OF FLAT ON TOP)
_	GLOBE VALVE		REDUCER (CONCENTRIC)
-	PLUG VALVE		FLEXIBLE CONNECTION
-	PRESSURE REDUCING VALVE	E	EXPANSION JOINT
_	CHECK VALVE		PIPE GUIDE
_	STRAINER W/BALL VALVE, HOSE BIBB & CAP (GATE VALVE FOR STEAM)		ANCHOR
- ,	AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR		RISE (SINGLE LINE - PLAN VIEW)
–	AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR		DROP (SINGLE LINE - PLAN VIEW)
	THREE WAY AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR		TOP TAKEOFF
	AUTOMATIC FLOW CONTROL VALVE (PRESSURE INDEPENDENT)		BOTTOM TAKEOFF
	COMBINATION FLOWMETER/SHUT OFF/BALANCING VA (CIRCUIT SETTER)	ALVE	PIPE BREAK (SINGLE LINE)
- !	FLOW MEASURING DEVICE	—	DIRT LEG
_ ;	SAFETY RELIEF VALVE	C.O.	CLEAN OUT FOR CONDENSATE DRAIN
<u> </u>	JNION OR FLANGE (AS INDICATED BY PIPE SIZE)		DIRECTION OF FLOW IN PIPE
F	END CAP	UP ,	PITCH PIPE UP IN DIRECTION OF FLOW
– F	PRESSURE GAUGE WITH GAUGE COCK	DN	PITCH PIPE DOWN IN DIRECTION OF FLOW
- 1	THERMOMETER		SUPPLY LINES (NEW)
F	RISE (DOUBLE LINE - PLAN VIEW)		RETURN LINES (NEW)
-	DROP (DOUBLE LINE - PLAN VIEW)		EXISTING
–	PIPE BREAK (DOUBLE LINE)	-x-x-x-	DEMO/EXISTING TO BE REMOVED

CROCKFORDS -**RESORTS WORLD CATSKILLS**

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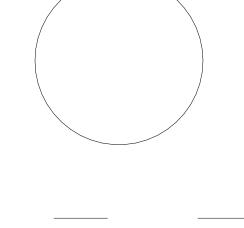
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REVISIONS

LEGEND

M-2