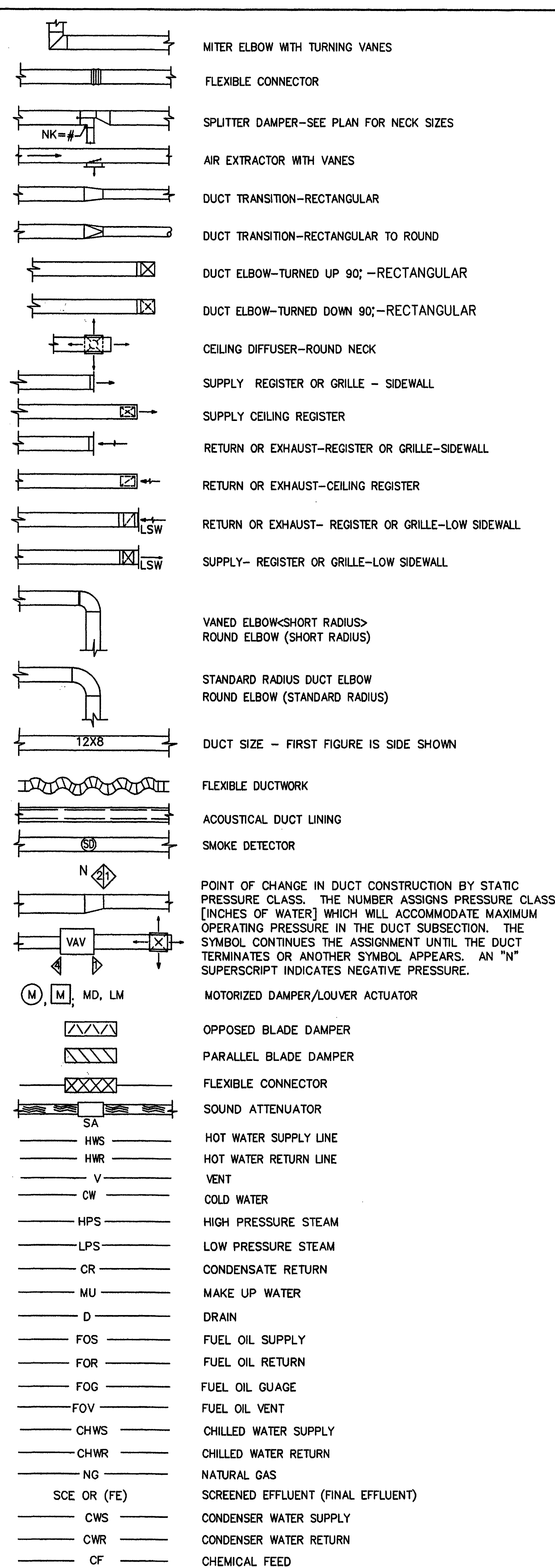
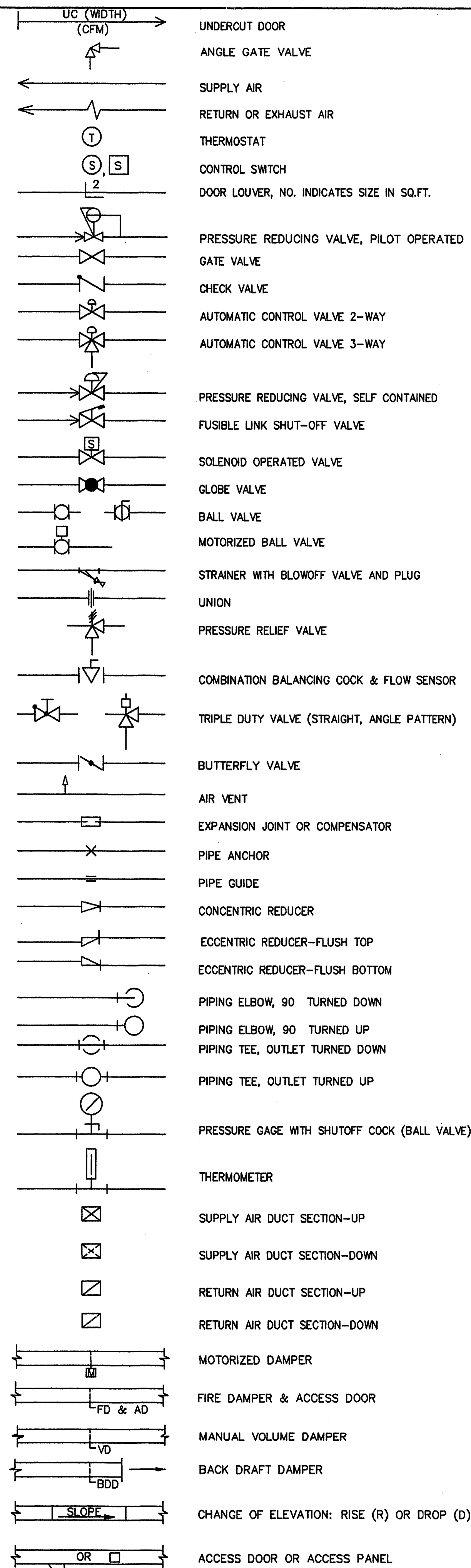


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AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU-1	AIR HANDLING UNIT NO. 1
AMB	AMBIENT
ATC	AUTOMATIC TEMPERATURE CONTROL
BHP	BRAKE HORSEPOWER
BDD	BACKDRAFT DAMPER
BOD	BOTTOM OF DUCT
BOR	BOTTOM OF REGISTER
CFM	CUBIC FEET OF STANDARD AIR PER MINUTE
DB	DRY BULB
DIA	DIAMETER
DX COIL	DIRECT EXPANSION REFRIGERANT COIL
EAT	ENTERING AIR TEMPERATURE
EF-1	EXHAUST FAN NO. 1
EL/ELEV	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
F.A.	FREE AREA
FD & AD	FIRE DAMPER AND ACCESS DOOR
F.C.	FLEXIBLE CONNECTOR
F.O.	FUEL OIL
FOG	FUEL OIL GAGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
GBD	GRAVITY BACKDRAFT DAMPER
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LM	LOUVER MOTOR
LWT	LEAVING WATER TEMPERATURE
MD	MOTORIZED DAMPER
NC	NORMALLY CLOSED
NK	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
Ø	PHASE
P-1	PUMP NO. 1
FTR-1	FINNED TUBE RADIATION UNIT NO.1
WC ("WG)	WATER COLUMN (INCHES WATER GAGE)
RH	RELATIVE HUMIDITY
RO	ROOF OPENING
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DETECTOR
SF-1	SUPPLY AIR FAN NO. 1
SP IN WG	STATIC PRESSURE INCHES OF WATER GAGE
SPEC	SPECIFICATION
SV-1	SOLENOID VALVE NO. 1
TEMP	TEMPERATURE
TOD	TOP OF DUCT
TOR	TOP OF REGISTER
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH-1	UNIT HEATER NO.1
V	VOLTS
VEL	VELOCITY
VD	VOLUME DAMPER
VH-1	HEATING CONTROL VALVE NO.1
VC-1	COOLING CONTROL VALVE NO.1
W/	WITH
WB	WET BULB
AF/BI FAN	AIRFOIL/BACKWARD INCLINED FAN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
RV-1	ROOF VENT NO. 1
IDEC	INDIRECT EVAPORATIVE COOLING
? FA	SQUARE FEET FREE AREA

#### GENERAL NOTES:

- ALL DUCT DIMENSIONS ARE CLEAR DIMENSIONS TO INSIDE OF DUCT. DIMENSIONS TO DUCTS FROM FLOOR OR WALL SHALL BE TO THE OUTSIDE OF DUCT. WHERE INTERNAL INSULATION IS REQUIRED THE DUCT SIZE SHALL BE INCREASED TO GIVE CLEAR INSIDE DIMENSIONS.
- EQUIPMENT SIZES AND LOCATIONS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED BY EQUIPMENT FURNISHED.
- FINAL OPENING DIMENSIONS, CONCRETE PAD SIZES, AND LOCATIONS MUST BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
- FINAL SIZES OF FLOOR OPENINGS, DUCT PLENUMS, AND TRANSITIONS AND PIPING CONNECTIONS TO ALL EQUIPMENT SHALL BE DETERMINED BY EQUIPMENT FURNISHED.
- FOR EXACT LOUVER TYPES, SIZES AND LOCATIONS SEE ARCHITECTURAL DRAWINGS.
- ALL PIPING AND DUCTS IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS. ACCESS DOORS SHALL BE INSTALLED FOR ANY CONCEALED DEVICE REQUIRING ADJUSTMENT.
- FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
- ACCESS PANELS IN SUPENDED CEILINGS ARE REQUIRED FOR MAINTENANCE & SERVICE AND SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
- WATER PIPE CONNECTIONS TO HEATING AND COOLING COILS SHALL BE MADE SO THERE WILL BE COUNTERFLOW BETWEEN WATER AND AIR.
- FOR FLOOR DRAIN LOCATIONS SEE PLUMBING DRAWINGS.
- FOR INTERLOCKING WIRING SCHEMATICS SEE ELECTRICAL DRAWINGS.
- THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.

**MALCOLM PIRNIE**  
11832 Rook Landing Drive, Suite 400  
Newport News, Virginia 23606

REVISIONS				DES	DWN	CKD
NO.	BY	DATE	REMARKS			
1	ARB	JAN. 2000	RECORD DRAWING	JMC	JMC	JMC



## CITY OF ROANOKE, VIRGINIA WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION

## HVAC LEGEND, SYMBOLS AND ABBREVIATIONS NO SCALE

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