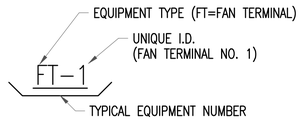
HVAC & PLUMBING SYMBOL SCHEDULE

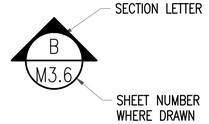
SYMBOL	DESCRIPTION
——— - ———	DOMESTIC COLD WATER LINE (CW)
——— - - ———	DOMESTIC HOT WATER LINE (HW)
——— - - - ———	HOT WATER RECIRC LINE (HWC)
——— F ———	FIRE PROTECTION LINE (F)
———	ABOVE FLOOR WASTE LINE (W)
——— ⊢ ———	BELOW WASTE LINE (W)
----------	PLUMBING VENT LINE (V)
——— CD ———	COOLING COIL CONDENSATE DRAIN LINE (CD)
VTR	VENT THRU ROOF
FD	FLOOR DRAIN
CO ●	CLEANOUT (FLOOR)
WCO ⊣	WALL CLEANOUT
CO ⊣I	END OF LINE CLEANOUT
P-#	PLUMBING FIXTURE CALLOUT
———⫤	CAP
———○	PIPE RISE
———⊖	PIPE DROP
———⫴———	UNION OR FLANGE CONNECTION
———>———	DIRECTION OF FLOW
———⊥———	TOP CONNECTION, 45° OR 90°
———⊥———	BOTTOM CONNECTION, 45° OR 90°
———⊥———	SIDE CONNECTION
———T———	CAPPED OUTLET
———⊖⋈———	VALVE IN DROP
———⊖⋈———	VALVE IN RISER
———⋈———	GATE VALVE / SHUT OFF VALVE
24x12	(UP) DUCT SECTION, POSITIVE PRESSURE (FIRST SIZE IS TOP DIMENSION)
24x12	(DOWN) DUCT SECTION, POSITIVE PRESSURE (FIRST SIZE IS TOP DIMENSION)
24x12	(UP) DUCT SECTION, NEGATIVE PRESSURE (FIRST SIZE IS TOP DIMENSION)
24x12	(DOWN) DUCT SECTION, NEGATIVE PRESSURE (FIRST SIZE IS TOP DIMENSION)
	SIDE WALL SUPPLY REGISTER
18x12	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (CLEAR INSIDE DIMENSIONS)
— R	DUCT CHANGE OF ELEVATION RISE(R) DROP(D)
	FLEXIBLE CONNECTION
	OPPOSED BLADE BALANCING DAMPER W/ MANUAL LOCKING QUADRANT (RECT DUCT)
	BUTTERFLY BALANCING DAMPER W/ MANUAL LOCKING QUADRANT (ROUND DUCT)
	OPPOSED BLADE BALANCING DAMPER W/ MOTORIZED LOCKING QUADRANT (RECT DUCT)
	BUTTERFLY BALANCING DAMPER W/ MOTORIZED LOCKING QUADRANT (ROUND DUCT)
SA	SUPPLY AIR
OA	OUTSIDE AIR
RA	RETURN AIR
EA	EXHAUST AIR
Ⓣ	THERMOSTAT
Ⓗ	HUMIDISTAT
M	MOTOR
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
AHU	AIR HANDLING UNIT
111	ROOM CALLOUT
⚠	REVISION NUMBER
	CONNECT NEW TO EXISTING. VERIFY EXACT LOCATION.
(#)	REFER TO PLAN NOTES
(E)	EXISTING EQUIPMENT OR MATERIAL DESIGNATION
SR	SUPPLY REGISTER
RG	RETURN GRILLE

DRAWING SYMBOLS

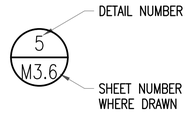
EQUIPMENT CALLOUT



SECTIONS



DETAILS



GENERAL NOTES

1. VERIFY JOB SITE CONDITIONS AND DIMENSIONS BEFORE BEGINNING WORK. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.
2. NO PIPING, DUCTWORK, ETC. SHALL PENETRATE STRUCTURAL MEMBERS.
3. PROVIDE MISCELLANEOUS CUTTING, PATCHING AND REPAIRING OF FINISHES, ROOF, WALLS, ETC., AS REQUIRED TO ACCOMMODATE THE NEW WORK.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT LOCATION, CONFIGURATION AND ROUTING OF EXISTING SYSTEMS REQUIRED TO REMAIN IN OPERATION DURING THE PROJECT TO PREVENT DAMAGE DURING DEMOLITION AND PHASING.
5. REMOVE ALL EXISTING DUCTWORK AND PIPING THAT IS NOT REQUIRED FOR A WORKING INSTALLATION.
6. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
7. ALL CUTTING AND PATCHING SHALL BE CLOSELY COORDINATED WITH THE G.C.
8. COORDINATE ROUTING OF PLUMBING, AND HVAC PIPING WITH DUCTWORK, LIGHTS, AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE. REWORK OF INSTALLED WORK TO RESOLVE CONFLICTS RISING FROM LACK OF COORDINATION SHALL NOT JUSTIFY AN INCREASE IN THE CONTRACT AMOUNT.
9. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED BY THE TRADE MAKING THE PENETRATION. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.
10. DO NOT ROUTE PIPING OR DUCTWORK OVER ELECTRICAL PANELS OR EQUIPMENT. COORDINATE WITH E.C. PROVIDE WATERTIGHT DRIP PAN WITH DRAIN TO NEAREST APPROVED RECEPTOR WHERE REQUIRED.
11. ALL WORK IS TO CONFORM WITH APPLICABLE CODES AND STANDARDS.
12. DUCT SIZES SHOWN ARE ACTUAL INSIDE CLEAR DIMENSIONS. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO ACCOMMODATE DUCT LINER WHERE LINER IS SPECIFIED.
13. CONTRACTOR TO INSTALL TEMPORARY FILTERS OVER ALL RETURN AND EXHAUST GRILLES IN WORK AREA DURING CONSTRUCTION.
14. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
15. ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH PROPER FLUID AND PROPERLY VENTED BY THIS CONTRACTOR, ONCE NEW WORK HAS BEEN INSTALLED.
16. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
17. WHERE EXISTING PIPING AND EQUIPMENT, ETC., THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
18. PORTIONS OF EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN THOUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL EXISTING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILDING DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
19. ALL WORK MUST BE COORDINATED AND SCHEDULED WITH THE OWNER AND OCCUPANTS OF THIS BUILDING SO AS TO PROVIDE THE LEAST AMOUNT OF DISRUPTION OF BUILDING ACTIVITIES AS POSSIBLE. MAINTAIN CONDITIONED SPACE FOR ALL OWNER OCCUPIED AREAS DURING CONSTRUCTION.
20. ALL ACCESSIBLE ABANDONED PIPING AND DUCTWORK SHALL BE REMOVED AND DISPOSED OF PROPERLY.

SHEET INDEX

M1.1 – MECHANICAL COVER SHEET
M2.1 – ENLARGED MECHANICAL PLAN
M3.1 – MECHANICAL SPECIFICATIONS
M3.2 – MECHANICAL SPECIFICATIONS

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CHENEY VARIABLE FREQUENCY DRIVE
UPGRADE
CHENEY, KS

Issue:		

JOB NO.	217043-012
DATE	DECEMBER 2022
PM	RDB
DESIGNED BY	DJT
DRAWN BY	DJT
CHECKED BY	DJT

MECHANICAL COVERSHEET

M1.1

Saved 12-21-2022 7:29:35 AM by DARIN.TAYLOR
Plot Scale 1:1.376248 12-27-2022 11:39:17 AM by NICK.MCGEE
U:\Wichita-Civil\2021\217043\012\Mech\Drawings\217043-012_M1.1 MECHANICAL COVERSHEET