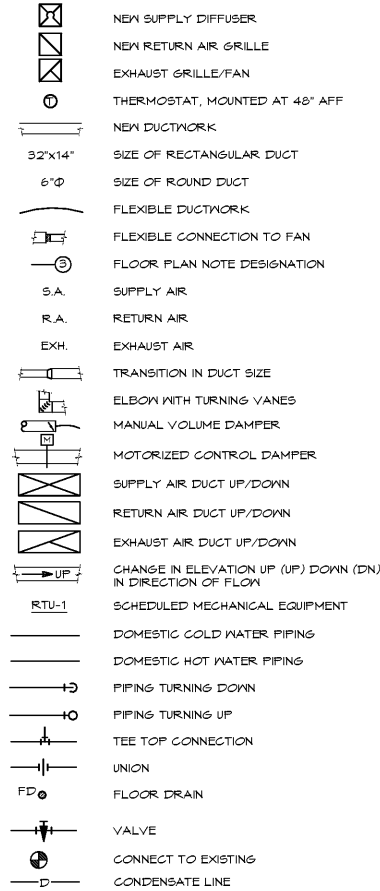


**MECHANICAL/PLUMBING SYMBOLS:**



**PLUMBING FIXTURE SCHEDULE:**

- HWC** HANDICAP WATER CLOSET: TOTO #G5T#S46CF, "DRAKE II CLOSE COUPLED TOILET", 1.28 GALLON FLUSH, 16-1/2" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE, VITREOUS CHINA, SIFON-JET ACTION, #S614 OPEN FRONT SEAT WITH CHECK HINGE AND LESS COVER, CHROME PLATED ANGLE STOP AND RISER, HANDLE ON WIDE SIDE OF FIXTURE.
- L1** HANDICAP LAVATORY, WALL HUNG: TOTO #LT30T, 20"x18", VITREOUS CHINA, FRONT OVERFLOW, DELTA #501 FAUCET WITH SINGLE METAL LEVER FAUCET, OFFSET GRID ELBOW DRAIN AND TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT (MOUNTED PARALLEL WITH WALL), CHROME PLATED LOOSE KEY ANGLE STOPS AND RISERS, FLOOR MOUNTED CONCEALED ARM LAVATORY SUPPORT, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.
- WH** INSTANTANEOUS WATER HEATER: STIEBEL MINI 2-1, 120 VOLT, 0.5 GPM, INSTALL 0.5GPM PRESSURE COMPENSATING FLOW-REDUCER/AERATOR.
- MV** MIXING VALVE: WATTS #LFUSG-B, THERMOSTATIC CONTROLLED MIXING VALVE, LEAD FREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH BRASS SHUTTLE, STAINLESS STEEL SPRINGS, INTEGRAL CHECK VALVES ON HOT AND COLD INLETS. (SET TO 110°F). ASSE 1070 LISTED.

**PLUMBING FIXTURE BRANCH PIPING SCHEDULE**

FIXTURE	VEN	CW	HW
WATER CLOSET (TANK TYPE)	3"	2"	2"
LAVATORY	1-1/4"	1-1/4"	1/2"

NOTE: INDIVIDUAL VENTS FOR FIXTURES ON FLOOR AND RISER DIAGRAMS HAVE BEEN INDICATED WHERE WORKING VENT LENGTH IS IN EXCESS OF THE MAXIMUM DISTANCE INDICATED BY THE CODE.

**EXHAUST FAN SCHEDULE**

MARK	MFG	MODEL	CFM	EXTERNAL STATIC P. IN. WG.	RPM	ELECTRICAL		FAN TYPE	REMARKS
						VOLT/Ø/HZ	PHW		
1	TRANE	GC-240	100	0.25	1200	120/1/60	60 W	CEILING EXH.	1,2

NOTES: 1. PROVIDE CEILING GRILLE, INTEGRAL BACK DRAFT DAMPER, VARI-SPEED CONTROLLER (NEAR FAN AND ABOVE CEILING), AND DISCONNECT FOR EF-1.  
 2. FANS SHALL NOT EXCEED SCHEDULED RPM.

**MECHANICAL/PLUMBING GENERAL NOTES:**

- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DIFFUSERS.
- INSTALL ALL DUCT, PIPE, ETC. AS HIGH AS POSSIBLE.
- DUCT SIZES SHOWN ARE ACTUAL SHEET METAL SIZES AND INCLUDE AN ALLOWANCE FOR DUCT LINER WHERE APPLICABLE.
- PROVIDE FLEXIBLE CONNECTION BETWEEN DUCTWORK AND AIR HANDLING UNITS, EXHAUST FANS, AND OTHER MOTORIZED EQUIPMENT.
- NO DUCT SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
- REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR SUPPORTING PIPING, EQUIPMENT, ETC. FROM THE STRUCTURE. PROVIDE ADDITIONAL STEEL AS REQUIRED TO PROPERLY SUPPORT SYSTEMS FROM THE STRUCTURE.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES.
- COORDINATE EXACT DUCT ROUTING WITH EXISTING SPRINKLER PIPING.

**MECHANICAL/PLUMBING PLAN NOTES:**

- REPLACE EXISTING WATER CLOSET, OFFSET AND RECONNECT CW AND WASTE AS REQUIRED.
- EXISTING PLUMBING FIXTURE TO REMAIN.
- REPLACE EXISTING LAVATORY, OFFSET AND RECONNECT CW, HW AND WASTE AS REQUIRED. PROVIDE INSTANT WATER HEATER UNDER LAVATORY AND CONNECT CW AND HOT WATER WITH MIXING VALVE AS REQUIRED.
- COORDINATE WITH LANDLORD FOR EXACT THERMOSTAT REQUIREMENTS TO CONNECT TO LANDLORD BUILDING MANAGEMENT SYSTEM.
- SUPPORT UNIT FROM STRUCTURE AND PROVIDE VIBRATION ISOLATION AS REQUIRED BY THE MANUFACTURER. PROVIDE ADDITIONAL SUPPORT STEEL AS REQUIRED.
- REPLACE EXISTING EXHAUST FAN, EXTEND AND CONNECT 6"Ø EXHAUST DUCT TO EXISTING EXHAUST DUCT THRU ROOF AS REQUIRED.
- EXTEND AND CONNECT CHILLED WATER SUPPLY AND CHILLED WATER RETURN PIPING TO EXISTING LANDLORD STUBS AS REQUIRED. VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPES PRIOR TO INSTALLATION OF ANY PIPING.
- CONNECT 3/4" CONDENSATE TO AIR HANDLING UNIT AND ROUTE TO FLOOR DRAIN AND DISCHARGE WITH AIR GAP AS REQUIRED.
- EXTEND AND CONNECT 8"Ø OUTSIDE AIR DUCT TO EXISTING OUTDOOR AIR OPENING AT ROOF AS REQUIRED, CONNECT TO RETURN AIR DUCT WITH BALANCING DAMPER SET TO OUTDOOR AIR FLOW AS PER SCHEDULE.
- CONNECT CHILLED WATER PIPING TO AHU AS REQUIRED BY LANDLORD AND AS DETAILED.
- SUPPORT WATER HEATER FROM WALL BELOW LAVATORY AS REQUIRED BY MANUFACTURER.

**DIFFUSER SCHEDULE**

MARK	MFG	MODEL	NECK SIZE	FACE SIZE	FINISH	REMARKS
SD-1	TITUS	TMS/3	10"Ø	24"x24"	BLACK	-
SD-2	TMS/3	TMS/3	8"Ø	24"x24"	WHITE	-
SD-3	TMS/3	TMS/3	6"Ø	12"x12"	WHITE	-
RG-1	PAK/3	PAK/3	22"x22"	24"x24"	BLACK	-
RG-2	PAK/3	PAK/3	12"Ø	24"x24"	WHITE	-

**AIR HANDLING UNIT SCHEDULE**

MARK	MFG	MODEL NO.	CFM	MIN. O.A.	E.S.P. IN. WG.	COOLING				HEATING (ELECTRIC) (RESISTANCE)		ELECTRICAL		REMARKS	
						TOTAL BTUH	SENS. BTUH	GPM	ØP WATER	ØPT/LMT	KW	STAGES	VOLT/Ø/HZ		HP
AH-1	TRANE	BCHD054G2	1,600	290	0.4	61,800	59,240	11.0	4.83	45°/56°	10.0	2	480/3/60	1 HP	COOLING W/ ELEC. HEAT

- NOTES: 1. PROVIDE 2" THICK MERV-8 THROWAWAY TYPE FILTER, 6-ROW COOLING COIL- 12 FPI, ELECTRONICALLY COMMUTATED MOTOR (ECM), AND VIBRATION ISOLATORS FOR UNIT.  
 2. PROVIDE WATERTIGHT DRAIN PAN TO PREVENT CONDENSATION AND CONDENSATE FLOAT SWITCH TO DE-ENERGIZE THE AHU IF THE DRAIN PAN FILLS WITH WATER.  
 3. COORDINATE WITH LANDLORD FOR REQUIREMENTS OF THERMOSTAT.  
 4. PROVIDE 2-WAY CHILLED WATER FLOW CONTROL VALVE AND ASSOCIATED PIPING AS REQUIRED BY LANDLORD.  
 5. UNIT SUPPLIED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR. CONTACT TONY CORNELL WITH SCOPE QUESTIONS AND FOR ADDITIONAL INFORMATION AT (317)255-8711 (TCORNELL@TRANE.COM).

**OUTDOOR AIR CALCULATIONS**

UNIT	Area (sqft)	OCCUPANCY CLASSIFICATION	Occupant Density #/1000 sqft	People outdoor airflow rate in breathing zone, (R <sub>bz</sub> ) cfm/person	Area outdoor airflow rate in breathing zone, (R <sub>az</sub> ) cfm/sqft	Exhaust airflow rate cfm/sqft	Breathing zone outdoor airflow (V <sub>bz</sub> )	Zone air distribution effectiveness (E <sub>z</sub> )	Zone outdoor airflow (cfm)
AHU-1	905	Sales	15	7.5	0.12		210	0.8	263
	150	Storage rooms	0	0	0.12		18	0.8	22
							Total		286

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**BC ENGINEERS INCORPORATED**  
 5720 Reeder Shawnee, Ks. 66203 (913)262-1772

**Lids**

LD 600  
 OAKWOOD CENTER  
 107 WESTBANK EXPRESSWAY  
 SUITE 108  
 GREENA, LA 70063

PROJECT NUMBER  
 19433-377



STUDIO T2 DESIGN  
 INTERIOR ARCHITECTURE & DESIGN  
 8010 STATE LINE ROAD SUITE 180  
 LEAWOOD, KANSAS 66208

**GENERAL NOTES**

- RELATED DOCUMENTS: This Drawing is a single part of an integrated set of Construction Contract Documents. The General Conditions of the Contract, the General Specifications, Division 1 of the Specifications, applicable requirements of Division 2 thru Division 16 Sections of the Specifications and other Drawings may apply to the work described on this drawing. Failure to review other documents does not relieve the Contractor from providing a complete Project.  
 COMPLY WITH all laws, code and ordinances of authorities having jurisdiction, and with requirement of the Landlord, if applicable.  
 VERIFY ACTUAL CONDITIONS and dimensions prior to construction. Commencement of work constitutes verification and acceptance of existing conditions.  
 CALCULATE AND MEASURE required dimensions, do not scale the drawings unless otherwise directed.  
 APPLICATION of a material or equipment item to work installed by others constitutes acceptance of that work, and assumption of responsibility for satisfactory installation.  
 DIMENSIONS shown are to finish face of a material, unless otherwise indicated.  
 PROJECT CONTACT  
 THOM TOBEN  
 EMAIL: TLTOBEN@ST2D.COM  
 PH: 913.649.6037  
 IN ASSOCIATION WITH

**REVISIONS AND NOTATIONS**

NO.	DESCRIPTION	DATE

DATE  
 4 - FEBRUARY 2019

DRAWING TITLE  
 MECHANICAL/PLUMBING PLAN

DRAWING NUMBER  
 MP1

Order Plans