VAF	LABLE R	EFRIG	ERAN	T FL	JOW	S	CHE	DU	LE															
]	NDOOR UNIT											CONDENSING UN	NIT											
ND.	MAKE & MODEL	LOCATION	COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	CFM	ESP	V	Ø RA Al	TED H MPS (A)	IZ WT (LBS.)	ND.	MAKE & MODEL	COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	SEER	HSPF	V	ø HZ	COMPRESSOR AMPS (A)	FAN MOTOR AMPS (A)	MCA (A)	М⊡Р (А)	WT (LBS.)	REMARKS
FC 1	LG ARNU123BHA4	DFFICE	12,300	13,600	339	0.31	208-230	1 1	.06 6	0 60		LG ARUM241BTE5	240,000	243,000	_	-	208-230	3 60	COMP (A) 25.6	8.0	63.2	80	666	W/ PROGRAMMABLE THERMOSTAT, W/ SELF DIAGNOSIS SETTING W/ MERV-8 FILTER. W/ CONDENSATE OVERFLOW SWITCH TO SHUT OFF FAN COIL UNIT.
FC 2	LG ARNU363BGA4	FDYER/ MUD ROOM	36,200	40,600	1141	0.39	208-230	1 2	2.65 6	0 85									COMP (B) 23.2					
FC 3	LG ARNU363NJA4	MASTER/ LIVING	36,000	40,000	990	0.5	208-230	1 1	.12 6	0 121														
FC 4	LG ARNU363NJA4	KITCHEN	36,000	40,000	990	0.5	208-230	1 1	.12 6	0 121														
FC 5	LG ARNU543BRA4	LI∨ING∕ FAMILY	54,000	61,400	1801	0.55	208-230	1 3	3.5 6	0 115														
FC 6	LG ARNU363NJA4	BASEMENT	36,000	40,000	990	0.5	208-230	1 1	.12 6	0 121														
FC 7	LG ARNU363NJA4	UNFINISHED BASEMENT	36,000	40,000	990	0.5	208-230	1 1	.12 6	0 121														

* REFRIGERATION PIPE SIZES SHALL BE COORDINATED WITH MANUFACTURE BASED ON EXACT REFRIGERATION PIPE LENGTHS AND ELBOWS IN THE SYSTEM. ** VERIFY EXACT AVAILABLE VOLTAGE & PHASE, W/ ELECTRICAL ENG. PRIOR TO ORDERING THE AC UNITS, ELECTRICIAN TO VERIFY WITH MANUFACTURER FOR FUSE SIZE & FEEDER SIZE.

Η	EAT R	ECOVERY	BOX	SCHE	EDULI	£						
	INDOOR U	NIT										
ND.	MAKE & MDDEL	UNITS SERVED	MAX PORT CAPACITY (BTU/HR)	MAX UNIT CAPACITY (BTU/HR)	V	Ø	HZ	RATED AMPS (A)	MCA	MFA	WT (LBS.)	REMARKS
	LG PRHR031A	FC-1 FC-2 FC-3	54,000	192,000	208-230	1	60	0.12	_	_	45	MAXIMUM 3 UNITS INSTALLED PER HEAT RECOVERY BOX. INSTALL PER MANUFACTURERS REQUIREMENTS. W/ SHUT DFF VALVE.
	LG PRHR041A	FC-4 FC-5 FC-6 FC-7	54,000	192,000	208-230	1	60	0.16	-	_	50	MAXIMUM 4 UNITS INSTALLED PER HEAT RECOVERY BOX. INSTALL PER MANUFACTURERS REQUIREMENTS.

	EXHAUS	Γ FANS	SCHE	DULE	1 4						
SYMBOL	MAKE	MODEL	CFM	S.P	E	ELECT	RICA	Ĺ	WT.(LBS)	SERVICE	REMARKS
O TIME OL		MODEL		0.1	POWER	V	ø	HZ	W1.(LD3)	SERVICE	
$\left\langle \begin{array}{c} EF\\ 1\end{array} \right\rangle$	BROAN	XB110	110	0.25	0.3 AMPS	120	1	60	20	POWDER ROOM	ENERGY STAR COMPLIANT EXHAUST FAN W/
EF 2	BROAN	XB110H	110	0.25"	0.3 AMPS	120	1	60	20	BATHROOM	ENERGY STAR COMPLIANT EXHAUST FAN
EF 3	GREENHECK	BCF-106	200	0.25"	1/10 HP	120	1	60	80	MASTER BATH	W/ BACK DRAFT DAMPER, W/ DISCONNE
EF 4	BROAN	QTXE150	150	0.25"	0.5 AMPS	120	1	60	20	LAUNDRY	W/ BACK DRAFT DAMPER, W/ DISCONNE
EF 5	BROAN	XB110	110	0.25"	0.3 AMPS	120	1	60	20	TOILET ROOM	W/ BACK DRAFT DAMPER, W/ DISCONNE
EF 6	GREENHECK	BCF-106	500	0.25"	1/10 HP	120	1	60	80	GENERAL EXHAUST	W/ BACK DRAFT DAMPER, W/ DISCONNE

WHOLE-BUILDING VENTILATION REQUIREMENTS (FROM ASHRAE 62.2) AT LEAST ONE MECHANICALVENTILATION SYSTEM IN THE BUILDING MUST BE DESIGNATED FOR USE IN AT LEAST ONE MECHANICALVENTILATION STSTEM IN THE BUILDING MUST BE DESIGNATED FOR USE IN COMPLIANCE WITH THE WHOLE-BUILDING VENTILATION REQUIREMENT. ALTERNATIVELY, THE SUM OF THE RATED AIRFLOWS FROM MULTIPLE FANS CAN BE UTILIZED TO MEET THE REQUIRED WHOLE-BUILDING VENTILATION AIRFLOW. THE SYSTEM(S) MUST DELIVER CONTINUOUS VENTILATION AIRFLOW AT A RATE GREATER THAN OR EQUAL TO THE RATE SPECIFIED IN EQUATION 4.1 a, AND FAN SONE RATINGS MUST NOT EXCEED 1.0. FOR DWELLING OCCUPANT DENSITIES KNOWN TO BE GREATER THAN $(N_{BR} + 1)$, the rate shall be increased by 7.5 CFM for each additional person. Eq 4.1a Calculation: A floor = conditioned floor area, ft² (Eq. 4.1a) Q_{fan} = 0.03A_{floor} + 7.5(N_{br} + 1) N br = number of bedrooms; not to be less than $\begin{array}{rcl} \mathsf{A}_{\mathsf{floor}} = & \underline{4,885} \\ \mathsf{N}_{\mathsf{br}} = & \underline{5} \\ \mathsf{Q}_{\mathsf{fan}} = & \underline{192} \end{array}$ Q_{fan} = ventilation air requirement = fan flow rate,



V/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, RUN CONTINUOUS TO MEET ASHRAE 62.2 COMPLIANCE.

AN, W/ BACK DRAFT DAMPER, W/ DISCONNECT SWITCH, CONTROLLED BY LIGHT SWITCH AND BUILT-IN HUMIDISTAT.

NECT SWITCH, CONTROLLED BY LIGHT SWITCH AND HUMIDISTAT.

NECT SWITCH, CONTROLLED BY LIGHT SWITCH.

NECT SWITCH, CONTROLLED BY LIGHT SWITCH.

NECT SWITCH, CONTROLLED BY LIGHT SWITCH.

H.V.A.C. LEGEND

SYMBOL		
	ABBRE∨.	DESCRIPTION
ZIRIZ		DUCT RISER
		DUCT DROP
		DUCT SECTION (SUPPLY)
		DUCT SECTION (RETURN)
		DUCT SECTION (EXHAUST)
$\overbrace{\leftarrow \boxtimes \rightarrow}$	C.D.	CEILING DIFFUSER
	R.A.R.	RETURN AIR REGISTER
↓	E.G.	EXAUST AIR GRILLE
	S.W.S.	SIDE WALL SUPPLY
▲ ~-	S.W.R.	SIDE WALL RETURN
╡ ╡ ╡	S.W.E.	SIDE WALL EXHAUST
	R.G.	RELIEF GRILLE
	M.∨.D.	MANUAL VOLUME DAMPER
	B.D.D	BACK DRAFT DAMPER
	A.∨.D.	AUTOMATIC VOLUME DAMPER
	D.L.	DOOR LOUVER
1	STAT	ROOM THERMOSTAT
	D.H.	DUCT HEATER
	U.C.	UNDER-CUT
cws	C.W.S.	COND. WATER SUPPLY
	C.W.R.	COND. WATER RETURN
— HWS—	H.W.S.	HOT WATER SUPPLY
HWR	H.W.R.	HDT WATER RETURN
		CHILLED WATER SUPPLY
	CH.W.S.	
	CH.W.R.	CHILLED WATER RETURN
		DIRECTION OF FLOW
	G.V.	GATE VALVE
	B.∨.	BUTTERFLY VALVE
	RED.	REDUCER
	STR.	STRAINER
$\frac{1}{1}$	U	
ଦୁ	P.G.	PRESSURE GAUGE
\square	A.D.	ACCESS DOOR
	A.P.	ACCESS PANEL
	S.A.	SUPPLY AIR
	R.A.	RETURN AIR
	E.A.	EXHAUST AIR
	C.A.	COMBUSTION AIR
	D.S.A.	DUTSIDE AIR
	DN.	
	CLG.	CEILING
	S.W.S.	SIDEWALL SUPPLY
	S.W.R.	SIDEWALL RETURN
	N.C.	NORMALLY CLOSED
	N.D.	NORMALLY OPEN
	N.I.C.	
	P.0.C.	PDINT OF CONNECTION
	Р.П.С. G.C.	PDINT OF CONNECTION GENERAL CONTRACTOR
	P.[].C. G.C. P.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR
	P.D.C. G.C. P.C. E.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR
	P.[].C. G.C. P.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF
2	P.D.C. G.C. P.C. E.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT
	P.D.C. G.C. P.C. E.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF
	P.D.C. G.C. P.C. E.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT
	P.D.C. G.C. P.C. E.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES
L E E	P.D.C. G.C. P.C. E.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS
Д Ш	P.D.C. G.C. P.C. E.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC.
L E E	P.D.C. G.C. P.C. E.C.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY MECH.
L E E	P.D.C. G.C. P.C. E.C. U.T.R.	PDINT DF CDNNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE
L E E	P.D.C. G.C. P.C. E.C. U.T.R.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU ROOF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR
L E E	P.D.C. G.C. P.C. E.C. U.T.R.	PDINT OF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU ROOF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING
	P.D.C. G.C. P.C. E.C. U.T.R. 	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY
L E E	P.D.C. G.C. P.C. E.C. U.T.R. C.A. C.A. M.C.A. T.S.P.	PDINT OF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU ROOF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE
	P.D.C. G.C. P.C. E.C. U.T.R. C.A. M.C.A. T.S.P. F.L.A.	PDINT DF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP
	P.D.C. G.C. P.C. E.C. U.T.R. C.A. C.A. M.C.A. T.S.P. F.L.A. B.D.D.	PDINT DF CDNNECTIDN GENERAL CDNTRACTDR PLUMBING CONTRACTDR ELECTRICAL CDNTRACTDR UP THRU RDDF FLEX. CDNN. IN DUCT TURNING VANES EXTRACTDRS FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSIDN VALVE CDNTRDL AIR DUCT LINING MAX. CIRCUIT AMPACITY TDTAL STATIC PRESSURE FULL LDAD AMP BACK DRAFT DAMPER
	P.D.C. G.C. P.C. E.C. U.T.R. C.A. C.A. M.C.A. T.S.P. F.L.A. B.D.D. M.BH	PDINT DF CDNNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP BACK DRAFT DAMPER THOUSAND BTUH
	P.D.C. G.C. P.C. E.C. U.T.R. C.A. C.A. M.C.A. T.S.P. F.L.A. B.D.D. M.BH E.R. SFD	PDINT DF CDNNECTIDN GENERAL CDNTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP BACK DRAFT DAMPER THOUSAND BTUH EXHAUST REGISTER SMOKE AND FIRE DAMPER
	P.D.C. G.C. P.C. E.C. U.T.R. C.A. C.A. M.C.A. T.S.P. F.L.A. B.D.D. M.BH E.R. SFD SD	PDINT DF CDNNECTIDN GENERAL CUNTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU RODF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP BACK DRAFT DAMPER THOUSAND BTUH EXHAUST REGISTER SMOKE AND FIRE DAMPER
	P.D.C. G.C. P.C. E.C. U.T.R. C.A. C.A. M.C.A. T.S.P. F.L.A. B.D.D. M.BH E.R. SFD	PDINT OF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU ROOF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP BACK DRAFT DAMPER THOUSAND BTUH EXHAUST REGISTER SMOKE AND FIRE DAMPER SMOKE DUCT DETECTOR POINT OF CONNECTION
	P.□.C. G.C. P.C. E.C. U.T.R. C.A. M.C.A. T.S.P. F.L.A. B.D.D. M.BH E.R. SFD SD SD	PDINT OF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU ROOF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP BACK DRAFT DAMPER THOUSAND BTUH EXHAUST REGISTER SMOKE AND FIRE DAMPER SMOKE DUCT DETECTOR POINT OF CONNECTION THERMOSTAT SENSOR
	P.□.C. G.C. P.C. E.C. U.T.R. C.A. M.C.A. T.S.P. F.L.A. B.D.D. M.BH E.R. SFD SD FSD	PDINT OF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU ROOF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP BACK DRAFT DAMPER THOUSAND BTUH EXHAUST REGISTER SMOKE AND FIRE DAMPER SMOKE DUCT DETECTOR POINT OF CONNECTION THERMOSTAT SENSOR FLOOR SUPPLY DIFFUSER
	P.□.C. G.C. P.C. E.C. U.T.R. C.A. M.C.A. T.S.P. F.L.A. B.D.D. M.BH E.R. SFD SD SD FSD FSD FRD	PDINT OF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU ROOF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP BACK DRAFT DAMPER THOUSAND BTUH EXHAUST REGISTER SMOKE AND FIRE DAMPER SMOKE DUCT DETECTOR PDINT OF CONNECTION THERMOSTAT SENSOR FLOOR SUPPLY DIFFUSER
	P.□.C. G.C. P.C. E.C. U.T.R.	PDINT OF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU ROOF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP BACK DRAFT DAMPER THOUSAND BTUH EXHAUST REGISTER SMOKE AND FIRE DAMPER SMOKE DUCT DETECTOR POINT OF CONNECTION THERMOSTAT SENSOR FLOOR SUPPLY DIFFUSER FLOOR RETURN DIFFUSER LINEAR SLOT SUPPLY DIFFUSE
	P.□.C. G.C. P.C. E.C. U.T.R. C.A. M.C.A. T.S.P. F.L.A. B.D.D. M.BH E.R. SFD SD SD FSD FSD FRD	PDINT OF CONNECTION GENERAL CONTRACTOR PLUMBING CONTRACTOR ELECTRICAL CONTRACTOR UP THRU ROOF FLEX. CONN. IN DUCT TURNING VANES EXTRACTORS FURN. & INST. BY ELEC. FURN. & INST. BY ELEC. FURN. & INST. BY MECH. EXPANSION VALVE CONTROL AIR DUCT LINING MAX. CIRCUIT AMPACITY TOTAL STATIC PRESSURE FULL LOAD AMP BACK DRAFT DAMPER THOUSAND BTUH EXHAUST REGISTER SMOKE AND FIRE DAMPER SMOKE DUCT DETECTOR PDINT OF CONNECTION THERMOSTAT SENSOR FLOOR SUPPLY DIFFUSER



SCHEDULES, NOTES, & LEGEND **REVISIONS**: BY: DATE: DATE: 05/05/2018 SCALE: DRAWN: K.S. <u>1</u>4"= 1'-0" SHEET: M1.0

GENERAL NOTES:

- 1. CODES, RULES AND REGULATIONS- DESIGN OF SYSTEM A) ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES AND CODES.
- B) WHEN THE DRAWINGS CALL FOR MATERIALS OR CONSTRUCTION OF A BETTER QUALITY OR LARGER SIZES THAN REQUIRED BY THE ABOVE MENTIONED CODES AND RULES, WORK SHALL BE AS SPECIFIED OR SHOWN RATHER THAN AS REQUIRED BY CODE. ALL ITEMS OR FEATURES OF THE MECHANICAL SYSTEMS REQUIRED BY CODE SHALL BE INCLUDED, EVEN THOUGH NOT SPECIFIED HEREIN.
- C) INSTALLATION OF THE SYSTEMS SHALL BE IN ACCORDANCE WITH THE ABOVE MENTIONED CODES AND REGULATIONS AND ALSO SHALL CONFORM TO GOOD, ACCEPTED MECHANICAL PRACTICES.
- 2. FLEXIBLE CONNECTIONS AT SUPPLY AND RETURN AIR OPENINGS OF ALL AIR CONDITIONING UNITS.
- 3. □BTAIN APPR□VAL FR⊡M ARCHITECT F⊡R ALL FL⊡⊡R REGISTERS AND SIDE WALL REGISTERS PRIDE TO PURCHASE.
- 4. CEILING DIFFUSERS TO BE EQUAL TO TITUS SERIES CC WITH D.B.D. FLUSH MOUNTED FOR SUSPENDED T-BAR CEILING AND SURFACE MOUNTED FOR GYPSUM BOARD CEILING.,SEE PLAN FOR LINEAR DIFFUSERS. LINEAR DIFFUSERS SHALL BE CARNES
- 5. COORDINATE EXACT LOCATION OF ALL AIR OUTLETS AND INLETS 6. SIDEWALL SUPPLY AND RETURN REGISTERS TO BE EQUAL TO TITUS
- 7. COORDINATE EXACT LOCATION OF ALL AIR OUTLETS AND INLETS (DIFFUSERS AND REGISTERS) WITH APPROPRIATE ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) COLOR AS DIRECTED BY ARCHITECT.

DRYER NOTES

LINEAR BAR.

- 1- THE MAXIMUM LENGTH DF 5' DUCT SHALL NDT EXCEED 44' (FT.). DEDUCT 4' (FT.) FDR EACH 90° ELBDW.
- 2-PROVIDE CLEANDUTS THAT ARE ACCESSIBLE AND ARE SPACED NOT MORE THAN 20' (FT.) APART, THEY SHALL ALSO BE LOCATED AT BASE OF EACH
- VERTICAL RISER. 3- THE TERMINATION OF THE DUCT SHALL NOT BE RESTRICTED BY ANY LOUVERS OR SCREEN SAND THE FREE AREA OF THE DUCT SHALL NOT BE
- REDUCED. THE DUCT SYSTEM DESIGN SHALL BE SUCH THAT THE 4- SCREWS DR DTHER FASTENERS WILL NOT DBSTRUCT THE FLOW THROUGH THE DUCT SYSTEM.
- 5- THE LAP JOINTS ARE TO BE IN THE DIRECTION OF
- THE AIR FLOW. 6- DUCTS INSTALLED WITHIN A WALL SHALL NOT BE INSTALLED WHERE THE FREE AREA OF THE DUCT WILL
- BE REDUCED IN AREA. 7- DUCT SHALL HAVE BACK DRAFT DAMPER. EXHAUST
- DUCT LIMITED TO 14'-0" WITH 2 ELBOWS. (UMC 504.3)

- 8. PROVIDE DUCT LINING TO SUPPLY DUCT OF EACH AC UNIT FOR MINIMUM OF 10 FT. DUCT LINING TO BE EQUAL TO JOHNS-MANVILLE, 1" THICK × 1-1/2 PCF DENSITY DUCT LINER, DUCTWORK TO BE INCREASED IN EACH DIMENSION TO INCORPORATE THICKNESS OF
- 9. DUCT INSULATION TO CONFORM TO CALIFORNIA ENERGY CONSERVATION STANDARDS (TITLE 24).
- 10. WIRING DIAGRAM IS INTENDED TO INDICATE SEQUENCE OF CONTROL AND DOES NOT NECESSARILY SHOW ALL CONNECTIONS REQUIRED BY LOCAL CODES.
- 11. AUTOMATIC TEMPERATURE CONTROL DEVICE FOR REGULATION OF AND COLLING IN SEQUENCE, OF THE ABILITY TO DEFATE THE HEATING AND COLLING IN SEQUENCE, CONTROL SHALL BE ADJUSTABLE TO PROVIDE A RANGE OF UP TO 10°F BETWEEN FULL HEATING AND FULL COOLING AND HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70°F, AND COOLING AT A TEMPERATURE NOT LESS THAN 78°F.
- 12. ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.
- 13. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE FASTENED IN PLACE.
- 14. PROVIDE SEISMIC BRACING FOR ALL MECHANICAL EQUIPMENT STRUCTURE M⊡UNTED, 400 LBS. □R HEAVIER.
- 15. A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNERS USE.
- 16. PROVIDE VOLUME DAMPER FOR ALL DUCT WORK BRANCHES. 17. PROVIDE CEILING & ROOF ACCESS FOR ALL CEILING & ROOF MOUNTED EQUIPMENT & VOLUME DAMPERS.

	DUCT S	UPPORT		RESIDENTIAI	J DUC	r sizi	NG	
	A. VERTICAL	DUCTS		THE FOLL				
MAXIMUM SIDE OF RECTANGULAR DUCT	METAL STRAP ANGLE BRACKET	MAXIMUM DIAMETER OF ROUND DUCTS	STRAP	DF LINEAL	. DUC ד DU	CT. 1 CT S	THIS SIZI	
24"	1" X 1/8" (STRAP) ¹	10*	0.047" (NO. 18 GAGE) GALVANIZED STEEL 2" WIDE	ADEQUATE FOR R HEATING AND AI APPLICATION. SI SCHEDULE WILL REQUIREMENT.			AIR CON	
36"	1" X 1" X 1/8" ANGLE ¹	20"	0.058" (NO. 16 GAGE) GALVANIZED STEEL 2" WIDE 1					
48"	1 1/8" X 1 1/8" X 1/8" ANGLE ¹	40 *	1/8" STEEL X 1 1/2" 1		CTANG	ULAR	AND	
60"	1 1/2" X 1 1/2" X 1/8" ANGLE ¹	60*	1/8" X 2" 1	AIR VOLUME CFM	DUC [*]	T HEI	GHT	
OVER 60"	2" X 2" X 1/8" ANGLE ¹	OVER 60"	3/16 STEEL X 2" 1	50	4 6X4 6X4	0		
	B. HORIZONTAL	DUCTS		100	8X4	6X6	╞	
	2				10X4 10X4		+	
18"	1" X 18" GAUGE		SAME GAUGE AS GALVANIZED STEEL DUCT, 1" WIDE OR (NO.		12X4		┼─	
30"	2 1" X 18" GAUGE	10"	18 GAUGE GALVANIZED STEÈL WIRE) ON 10' CENTERS	200	14X4			
30	I A IS GAUGE		WIRE) ON TO CENTERS	225	16X4	10X6		
48"	1" X 1/8" 2	20"		250	16X4	10X6		
	•		SAME GAUGE AS GALVANIZED STEEL 1" WIDE OR (NO. 8 GAGE	275		12X6	8X	
60"	1" X 1/8" ²		GALVANIZED STEEL WIRE) TIED TO 1" GALVANIZED STEEL BAND AROUND DUCT ON 10' CENTERS	300		12X6	_	
	2	40 "		400		14X6	_	
80"	1" X 1/8" -		AROUND DOCT ON TO CENTERS	500		18X6	_	
			SAME GAUGE AS GALVANIZED	600		20X6	_	
		60"	STEEL DUCT, 1-1/2" WIDE	700		24X6	_	
			ON 6' CENTERS.	800		26X6	_	
			SAME GAUGE AS GALVANIZED	900		30X6	_	
		OVER 60"	STEEL DUCT, 1-1/2" WIDE	1000			22	
			ON 4' CENTERS.	1100			24	
				1200			26	
	C. HORIZONTAL-DUCTS-TRAI	PEZE-TYPE SUPPORTS		1300			28	
MAXIMUM DIAMETER OF				1400			30	
ROUND DUCT OR SIDE OF	HORIZONTAL ³ SUPPORT ANGLE	+	IANGER	1500			+	
RECTANGULAR DUCT	SOFFORT ANGLE			1600			+	
36"	1-1/2" X 1-1/2" X 1/8"	1/4" ROUND ROD OR 1" >	(1" X 1/8" ANGLE	1700			+	
				1900			+	
48"	2" X 2" X 1/8"	1/4" ROUND ROD OR 1" >	2000					
60"	2" X 2" X 1/8"	5/16" ROUND ROD OR 1"						
84"	2" X 2" X 1/8"	3/8" ROUND ROD OR 1"	(1" X 1/8" ANGLE					

³SPACED NOT MORE THAN 8 FEET ON CENTERS.



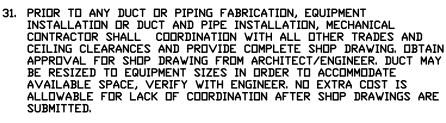
- 18. TRANSVERSE JOINTS FOR ALL AIR SUPPLY DUCTS INSTALLED WHERE AIR LEAKAGE WOULD BE NON-BENEFICIAL TO THE DCCUPIED AREA, TEMPERATURE REQUIREMENTS SHALL BE SEALED WITH CITY OF LOS ANGELES APPROVED MASTIC OR TAPE.
- 19. PROVIDE GALVANIZED SHEET METAL DUCTS FABRICATED AND INSTALLED TO UMC 2014 EDITION.
- 20. REFRIGERANT PIPING TO BE TYPE 'L' COPPER, REFRIGERATION GRADE, FITTINGS TO BE WROUGHT COPPER WITH JOINTS MADE UP WITH 'SOLIFOS' OR EQUAL HARD SOLDER, ALL JOINTS TO BE ROUGHLY CLEANED PRIOR TO SOLDERING. 21. REFRIGERANT SUCTION
- A) INSULATE WITH PERFORMED FIBERGLASS SNAP-ON INSULATION SUCH AS 25 ASL/SSL.
- B) FOR PIPES UP TO 1" DIAMETER, PROVIDE 1" THICK INSULATION.
- C) FOR PIPES 1" DIAMETER AND LARGER, PROVIDE 1-1/2" THICK INSULATION. D) WHERE INSULATION IS EXPOSED TO WEATHER, PROTECT WITH WATER PROOF CORRUGATED ALUMINUM TO BE INTACT WITH NO GAPS OR TEARS.
- E) INSTALL INSULATION IN ACCORDANCE WITH INSULATION MANUFACTURER'S RECOMMENDATION SEAL. TRANSMISSION WITH SSL BUTT STRIPS, VAPORSEAL
- 22. MAINTAIN 10' SEPARATION BETWEEN AIR INTAKE TO THE BUILDING AND ANY EXHAUST DR VENT. EXTEND THE DSA.

CUVER.

IF REQUIRED.

23. PROVIDE FIRE DAMPER OR SMOKE FIRE DAMPER WHERE DUCT PENETRATES FIRE RATED CEILING DR WALL IF APPLICABLE.

- 24. RECTANGULAR DUCTS CAN BE SUBSTITUTED WITH EQUIVALENT ROUND DUCTS WHERE APPLICABLE PER FOLLOWING SCHEDULE. <u>CFM</u> DUCT SIZE
- 0-110 110-240 8″ø 240-420 10″ø 420-675 12**″**ø 675-1050 14"ø 1050-1500 16"9 1500-2000 18"9
- 2000-2600 20**″**ø FOR FLEX DUCT INSTALLATION, ALL ABOVE DUCT SIZES SHALL BE INCREASED TO ONE SIZE LARGER. 25. THE PROJECT SHALL BE AIR BALANCED BY AN AIR BALANCE CONTRACTOR AND A COPY OF THE FINAL REPORT SHALL BE PRESENTED
- TO THE TENANT AND OWNER. 26. THE MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND FEES.
- 27. MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY EXISTING LOCATION OF ALL EQUIPMENT AND THEIR WORKING CONDITION PRIOR TO WORK. ANY DICREPANCY SHALL BE REPORTED TO ARCHITECT.
- 28. ENERGY CONSERVATION STANDARDS FOR NEW RESIDENTIAL BUILDINGS HAVE BEEN REVIEWED AND DESIGNED SUBSTANTIALLY CONFORMS TO
- 29. ALL DUCT SIZES SHOWN ON THE FLOOR PLANS ARE CLEAR INSIDE DIMENSIONS. 36. FLEXIBLE DUCT MAY BE USED FOR THE RESIDENTIAL UNITS CONTRACTOR SHALL ENLARGE THE DUCT IN ORDER TO ACCOMODATE LINING INSIDE OF DUCT IF REQUIRED.
- 30. SUCTION AND LIQUID LINE SIZES INDICATED ON THE SCHEDULE ABOVE ARE BASED ON 25' OF RUN,INCREASE PIPE SIZE FOR RUNS MORE THAN 25' AND CONSULT WITH MANUFACTURER FOR SIZING.



- THOROUGHLY MAKE THE EXAMINATION.
- 33. IN BATHROOMS CONTAINING BATHTUBS, SHOWERS, SPAS AND SIMILAR BATHING, FIXTURES SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH CALIFORNIA MECHANICAL CODE 2007 CBC 1203.4.2.1.
- 34. TOILET EXHAUST DUCTS SHALL BE MADE OF METAL. 35. ALL DUCTWORK IN GARAGE EXHAUST SYSTEM & MAKE UP
- SHALL BE GALVANIZED SHEET METAL. WITH NO KINK AND BEND. ALL THE TURNS AND 90° ELBOWS SHALL BE SHEET METAL. FL STRAIGHT RUNS ONLY.
- 37. FOR NON-RESIDENTIAL ARE OUTSIDE AIR SHALL BE SH & RETURN RUNS MAY BE VERIFY WITH ARCHITECT F

SIZES ARE BASED ON A OF 0.10 INCHES PER FT THIS "EQUAL-FRICTION" SIZING SHOULD BE ESIDENTIAL FURNACE CONDITIONING ZING BASED ON THIS COMPLY WITH MANUAL "D"												
AR .	AR AND ROUND DUCT											
HEIG	SHT IN	CHES		EQUIVALENT								
)"	8"	10"	12"	ROUND DUCT								
				5"								
				6"								
(6				6"								
(6				7"								
(6				7"								
(6				8"								
(6												
X6 8"												
X6 9"												
X6	8X8			9"								

5 | 12X8|10X10|

18X8 14X10 12X12

2X8 16X10 14X12 24X8 18X10 16X12 26X8 20X10 16X12

BX8 20X10 18X12

X822X1018X12

24X10|20X12

26X1020X12

28X10|22X12

30X10|22X12

24X12

9"

11"

13"

14" 14"

15" 16" 16"

16"

16"

17"

17"

18"

18"

18"

DUCT	ALUMINUNM				GALVANIZED SH	HEET GAGE)	GIRTH	
	B. & S. GAGE LOW PRESSURE ROUND	PRESSU	RE<2" WC ² FLAT-OVAL	PRESSURE>: SPIRAL SEAM		WELDED FITTINGS	MEDIUM & HIGH PRESSURE	MINIMUM GIR REINFORCING MAX. SPACIN & ANGLE SIZ
UP TO 9	24	0.019 (26)	0.024 (24)	0.019 (26)	0.024 (24)	0.030 (22)	2" SLIP	NONE
9 TO 14	24	0.019 (26)	0.024 (24)	0.024 (24)	0.030 (22)	0.036 (20)	4" SLIP	NONE
14 TO 23	22	0.024 (24)	0.030 (22)	0.024 (24)	0.030 (22)	0.036 (20)	4" SLIP	NONE
23 TO 37	20	0.030 (22)	0.036 (20)	0.030 (22)	0.036 (20)	0.036 (20)	4" SLIP	NONE
37 TO 51	18	0.036 (20)	0.047 (18)	0.036 (20)	0.036 (20)	0.047 (18)	1 1/4"X1 1/4" X1/8" FLANGE	
51 TO 61	16	0.047 (18)	0.058 (16)	x (18)	0.047 (18)	0.047 (18)	1 1/4"X1 1/4" X1/8" FLANGE	1 1/4"X 1 1 X1/8"
61 TO 84	14	0.058 (16)	0.070 (14)	×	0.058 (16)	0.058 (16)	1 1/2"X1 1/2" X1/8" FLANGE	1 1/2"X 1 1 X1/8" ON 4

²ACCEPTABLE LONGITUDINAL SEAMS FOR LOW-PRESSURE SYSTEMS: ACME (GROOVED); SNAP LOCK; STANDING AND SPIRAL.

	SIDEWALL	DIFFUSER	S
SIZE IN.	DUTLET VELDCITY	THR⊡₩ FEET	CFM
10 X 6	440	8	100
12 X 6	450	9	125
14 X 6	450	10	150
16 X 6	450	11	180
20 X 6	450	12	225
24 X 6	450	14	275
30 X 6	450	15	330
24 X 8	450	16	360
-			

SUPPLY DIFFUSER & CEILING RETURN CFM TABLE										
(CEILING SU	CD) PPLY DIFFUSER	(C CEILING RE	R) <u>TURN GRILLE</u>							
SIZE	CFM RANGE	SIZE	CFM RANGE							
6X6	0-100	6X6	0-100							
8X8	101-225	8X8	101-150							
10X10	226-350	10X10	151-200							
12X12	351-500	12X12	201-340							
14X14	501-680	14X14	341-450							
16X16	681-900	16X16	451-600							
18X18	901-1120	18X18	601-800							
20X20	1121-1395	20X20	801-1000							
22X22 1396-168		22X22	1001-1400							
24X24	1681-2000	24X24	1401-1800							

LINEA	R SLOT	Γ DIFFU	SER SCH	EDU	LE (SUP	PLY)				
MARK	MANUFACTURER	MODEL	FACE SIZE (IN)	NUMBER OF SLOTS	CFM/FT.	TOTAL CFM	PLENUM MODEL	NC (NOISE CRITERIA)	NOTES		
<u>LS-1</u> (UNIT SUPPLY)	TITUS	FL10	9'-0" LONG-1" SLOT	1	37	-	FBPI-10	<22	A,B,C,E,F		
<u>LS-2</u> (UNIT SUPPLY)	TITUS	FL15	11'0" LONG-1.5" SLOT	2	103	-	FBPI-15	<22	A,B,C,E,F		
<u>LS-3</u> (UNIT SUPPLY)	TITUS	FL10	4'-0" LONG-1" SLOT	1	25	-	FBPI-10	<22	A,B,C,E,F		
<u>LS-4</u> (UNIT SUPPLY)	TITUS	FL10	10'-0" LONG-1" SLOT	1	40	-	FBPI-10	<22	A,B,C,E,F		
<u>LS-5</u> (UNIT SUPPLY)	TITUS	FL10	10'-0" LONG-1" SLOT	1	47	-	FBPI-10	<22	A,B,C,E,F		
LINEAR REGISTER SCHEDULE (RETURN)											
MARK	MANUFACTURER	MODEL	FACE SIZE (IN)	NUMBER OF SLOTS	CFM/FT.	TOTAL CFM	PLENUM MODEL	NC (NOISE CRITERIA)	NOTES		
<u>LR–1</u> (UNIT RETURN)	TITUS	FL10	9'-0" LONG-1" SLOT	1	37	-	FBPI-10	<22	A,B,C,E,F		
<u>LR–2</u> (UNIT RETURN)	TITUS	FL25	15'-0" LONG-2.5" SLOT	1	76	-	FBPI-25	<22	A,B,C,E,F		
<u>LR–3</u> (UNIT RETURN)	TITUS	FL10	11'-0" LONG-1" SLOT	1	47	-	FBPI-10	<22	A,B,C,E,F		
<u>LR-4</u> (UNIT RETURN)	TITUS	FL20	4'-0" LONG-20" SLOT	1	58	-	FBPI-20	<22	A,B,C,E,F		
LINEA	R REG	ISTER S	CHEDULE	(EZ	KHAU	ST)					
MARK	MANUFACTURER	MODEL	FACE SIZE (IN)	NUMBER OF SLOTS	CFM/FT.	TOTAL CFM	PLENUM MODEL	NC (NOISE CRITERIA)	NOTES		
<u>LE-1</u> (EXHAUST)	TITUS	FL30	6'-0" LONG-3" SLOT	1	83	-	FBPI-30	<22	A,B,C,E,F		
<u>LE-2</u> (EXHAUST)	TITUS	FL10	5'-0" LONG-1" SLOT	1	40	-	FBPI-10	<22	A,B,C,E,F		

NOTES:

A. FINISH PER ARCHITECTS RECOMMENDATIONS. B. BRACH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLES C. BORDER TYPE AND STYLE TO MATCH CEILING CONSTRUC D. WITH NO CONTROL PATTERN.

E. WITH CONTROL BLADES. F. WITH LINED PLENUM BOOT

	FLOOR	IINFA			FCISTE		CHEDU	Г Г
	<u> FLOOK</u>	LINĽA	$\mathbf{N} \mathbf{D} \mathbf{P}$					LL
MARK	MANUFACTURER	MODEL	TYPE	SLOT #	FACE SIZE (IN)	CFM/FT.	PLENUM MODEL	NOTES
<u>FS–1</u>	CARNES	MODEL CC	-	-	3' x 3"	66~100	*	A,B,C,D,E
<u>FS-2</u>	CARNES	MODEL CC	-	_	4'× 4.5"	150	*	A,B,C,D,E
<u>FR-2</u>	CARNES	MODEL CC	-	_	1' × 2"	50	*	A,B,C,D,E

LEGEND: FS = FLOOR SUPPLY DIFFUSER FR = FLOOR RETURN SLOT DIFFUSER

NOTES:

A. BAKED ENAMEL FINISH, WHITE, PAINT PER ARCHITECTS RECOMMENDATIONS. B. BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS. C. COORDINATE WITH ARCHITECT FOR FRAME TYPE AND BORDER. D. NC LEVEL SHALL BE BELOW 22 E. PENCIL PROOF.

SCHEDULES, NOTES, & LEGEND BY: DATE: DATE: REVISIONS: 05/05/2018 SCALE: DRAWN: K.S. $\frac{1}{4}$ "= 1'-0" SHEET: **M1**

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MECHANICAL PLUMBING

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DOES NOT AUTHORIZE CONSTRUCTION T PROCEED IN VIOLATION OF ANY FEDERA STATE, OR LOCAL REGULATIONS.

VEST COAST CODE CONSULTANTS, INC

DATE: 07/11/18

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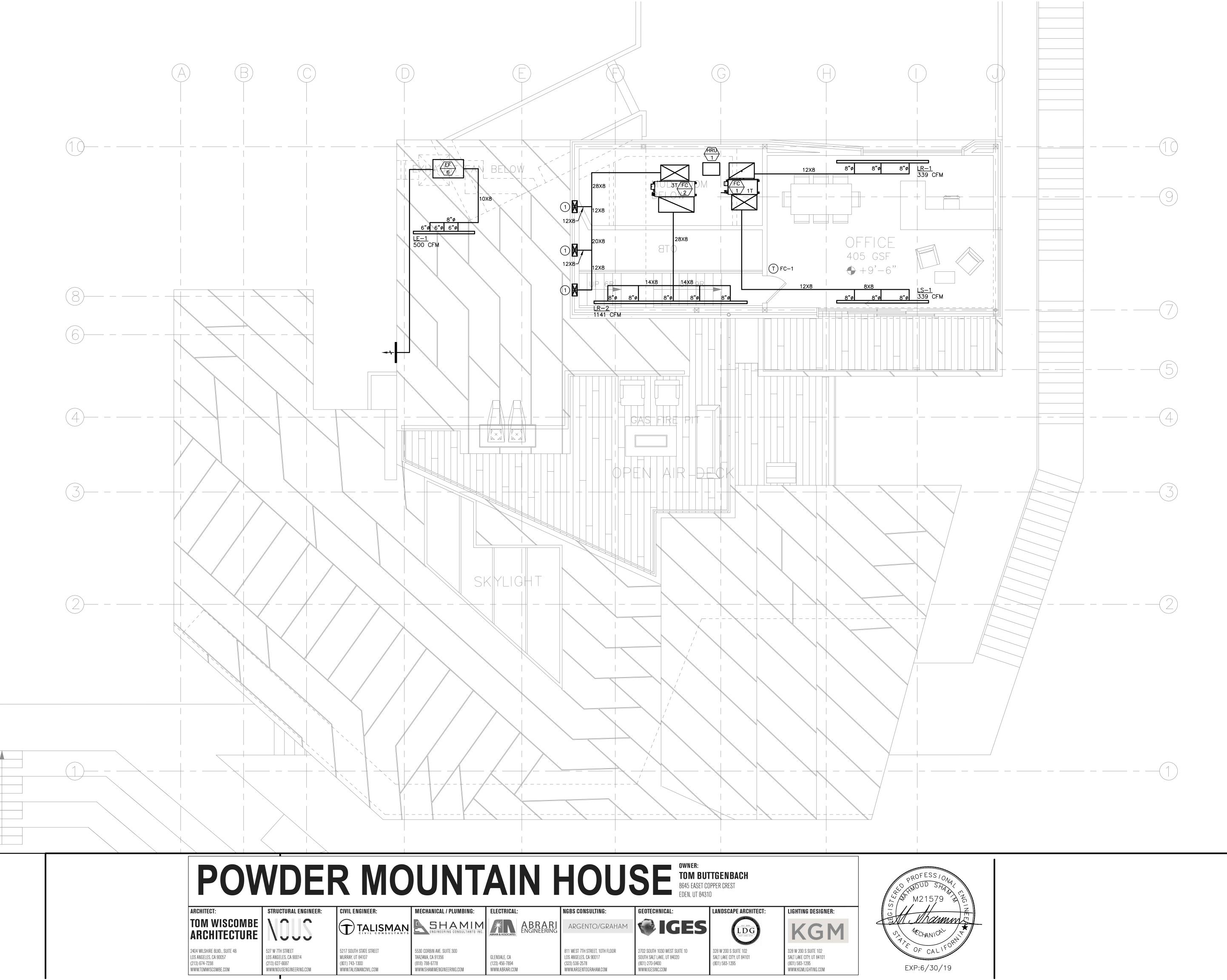
HEDULE (EXHAUSI)											
FACE SIZE (IN)	NUMBER OF SLOTS	CFM/FT.	TOTAL CFM	PLENUM MODEL	NC (NOISE CRITERIA)						
-0" LONG-3" SLOT	1	83	I	FBPI-30	<22						
-0" LONG-1" SLOT	1	40	-	FBPI-10	<22						
	SS OTHERWISE SHOWN ON DRAWINGS. TION, COORDINATE WITH ARCHITECT FOR BORDER TYPE AND STYLE.										

LEXIBLE DUCT MAY BE USED FOR	
EAS ALL EXHAUST DUCTS AND EET METAL. THE STRAIGHT SUPPLY FLEXIBLE IF THEY ARE NOT EXPOSED. DR AVAILABLE CEILING HEIGHT.	

FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY SUBMISSION WHICH RESULTS FROM A FAILURE TO

APPROVAL FOR SHOP DRAWING FROM ARCHITECT/ENGINEER, DUCT MAY BE RESIZED TO EQUIPMENT SIZES IN ORDER TO ACCOMMODATE AVAILABLE SPACE, VERIFY WITH ENGINEER. NO EXTRA COST IS ALLOWABLE FOR LACK OF COORDINATION AFTER SHOP DRAWINGS ARE 32. SITE INSPECTION: CONTRACTORS SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY

- 38. APARTMENTS SIDEWALL REGISTERS SHALL BE "TURTLE & BAILEY" SINGLE DEFLECTION WITH OBD. ALL OTHER NOTES REGARDING DIFFUSERS & REGISTERS IN THIS SHEET APPLY TO THE COMMONS AREA AND AIR DISTRIBUTION.
- 39. DUCT INSULATION TO CONFORM TO CALIFORNIA ENERGY CONSERVATION STANDARDS (TITLE 24). DUCT INSULATION SHALL BE "REFLETIX" R6.0 WITH A 0.75" INCHES AIR GAP.
- 40. THERMOSTAT SHALL BE CEC APPROVED WI-FI THERMOSTAT BY "VENSTAR" OR APPROVED EQUAL. THERMOSTAT SHALL BE
- VERIFY "R" VALUE PER TITLE 24 CALCULATION.
- CAPABLE OF RECEIVING AND RESPONDING TO DEMAND
- **RESPONSE SIGNALS.** 41. IF FLEXIBLE DUCT IS TO BE USED IN THE PROJECT, ALL DUCT SIZES SHALL BE INCREASE TO ONE SIZE LARGER.



<u>NOTES:</u>

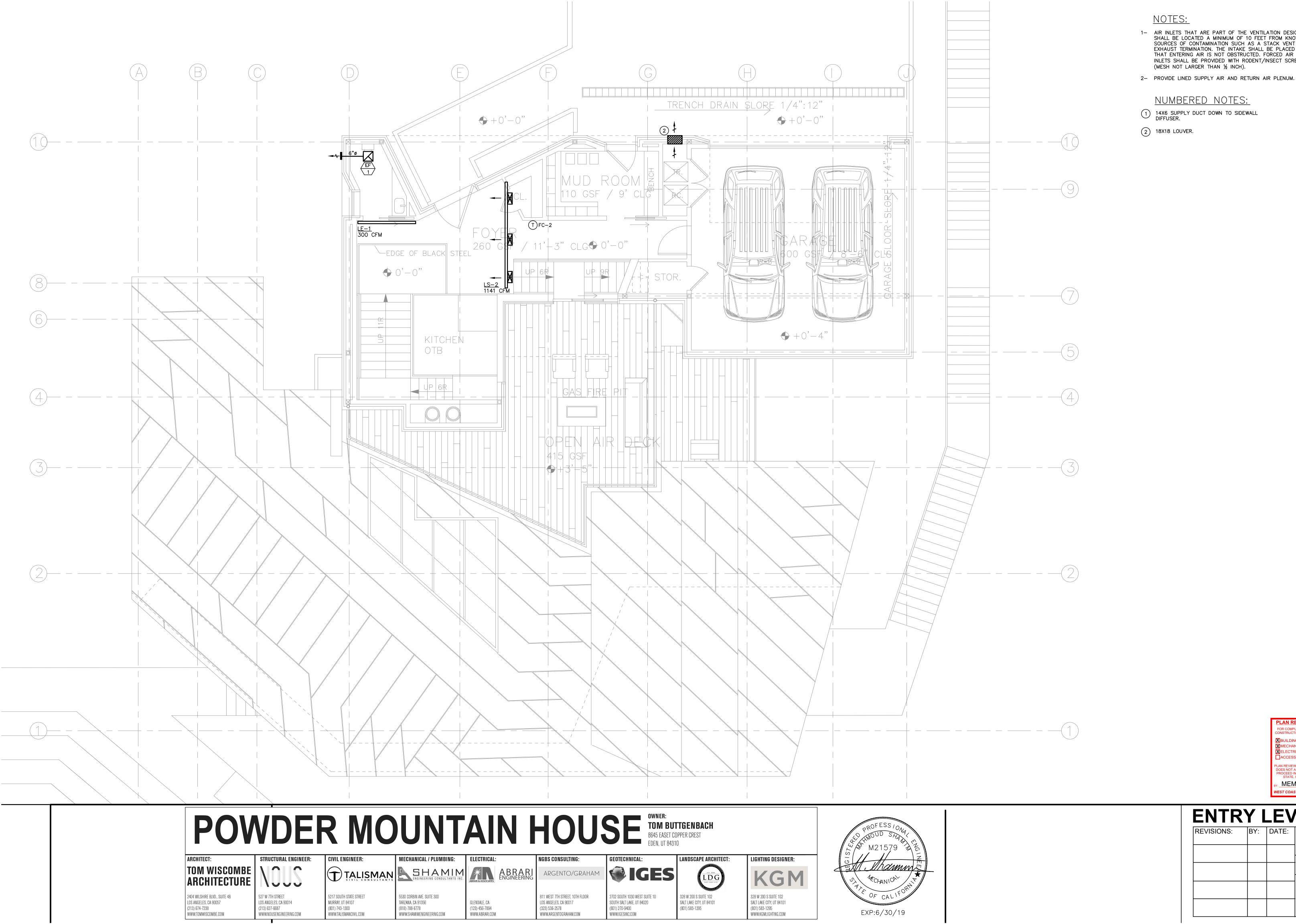
- 1- AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS A STACK VENT AND EXHAUST TERMINATION. THE INTAKE SHALL BE PLACED SO THAT ENTERING AIR IS NOT OBSTRUCTED. FORCED AIR INLETS SHALL BE PROVIDED WITH RODENT/INSECT SCREENS (MESH NOT LARGER THAN ½ INCH).
- 2- PROVIDE LINED SUPPLY AIR AND RETURN AIR PLENUM.

NUMBERED NOTES:

1 14X6 SUPPLY DUCT DOWN TO SIDEWALL DIFFUSER.



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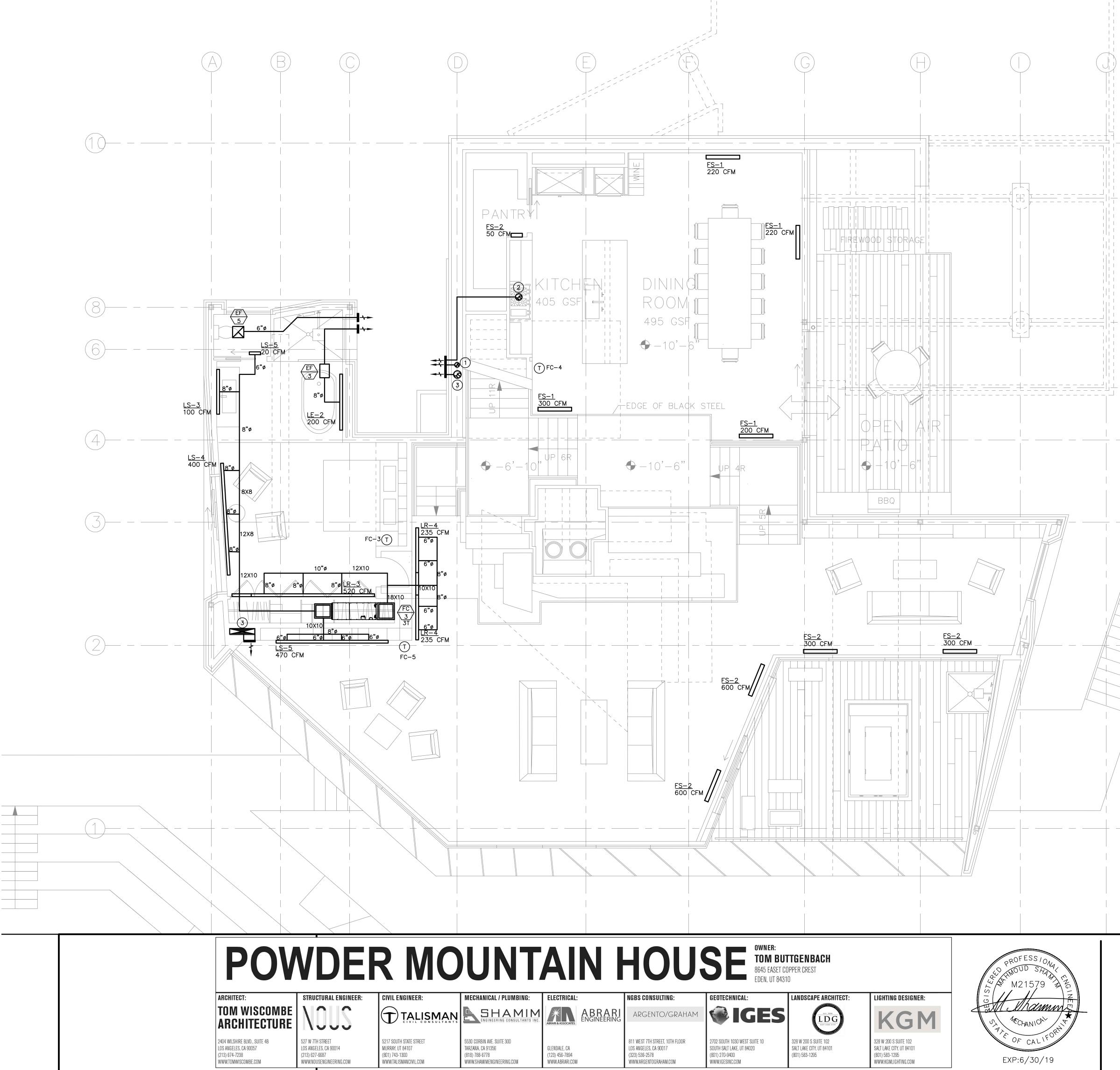
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2 18X18 LOUVER.

- NUMBERED NOTES: 1 14X6 SUPPLY DUCT DOWN TO SIDEWALL DIFFUSER.
- <u>NOTES:</u>
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- 2- PROVIDE LINED SUPPLY AIR AND RETURN AIR PLENUM.
- 3- DRYER EXHAUSTS SHALL TERMINATE AT LEAST 3 FEET FROM PROPERTY LINE AND THREE FEET FROM OPENINGS INTO ANY BUILDING.
- 4- NO LOUVERS ALLOWED ON DRYER DISCHARGE.
- 5- CONCENTRIC WATER HEATER COMBUSTION INTAKE AND EXHAUST FLUE TO EXTERIOR WALL. VERIFY EXACT SIZE WITH MANUFACTURER.

NUMBERED NOTES:

- 1 5"ø DRYER EXHAUST DUCT FROM BELOW TO TERMINATE W/ WEATHERCAP.
- 2 7"¢ (OR 3-1/4"x10") KITCHEN HOOD EXHAUST DUCT UTR WITH ROOF CAP OR TO SIDE WALL WITH WALL CAP. VERIFY DUCT SIZES PER MANUFACTURES REQUIREMENTS.
- 3 8"ø EXHAUST DUCT FROM BELOW TO TERMINATE WITH WEATHERCAP.



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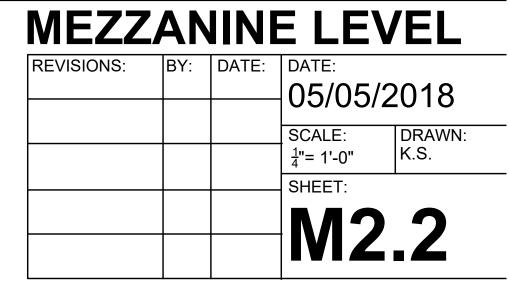
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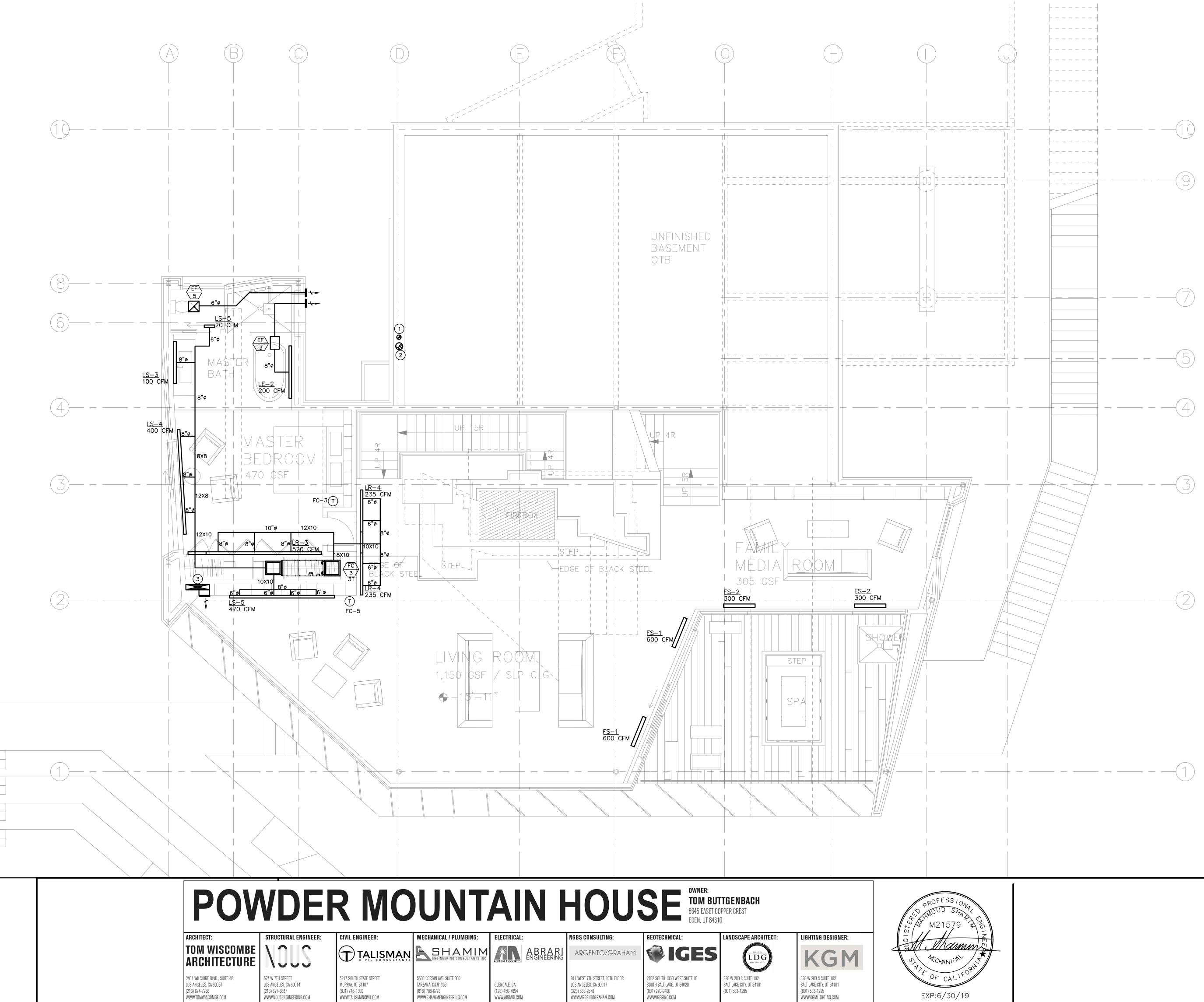
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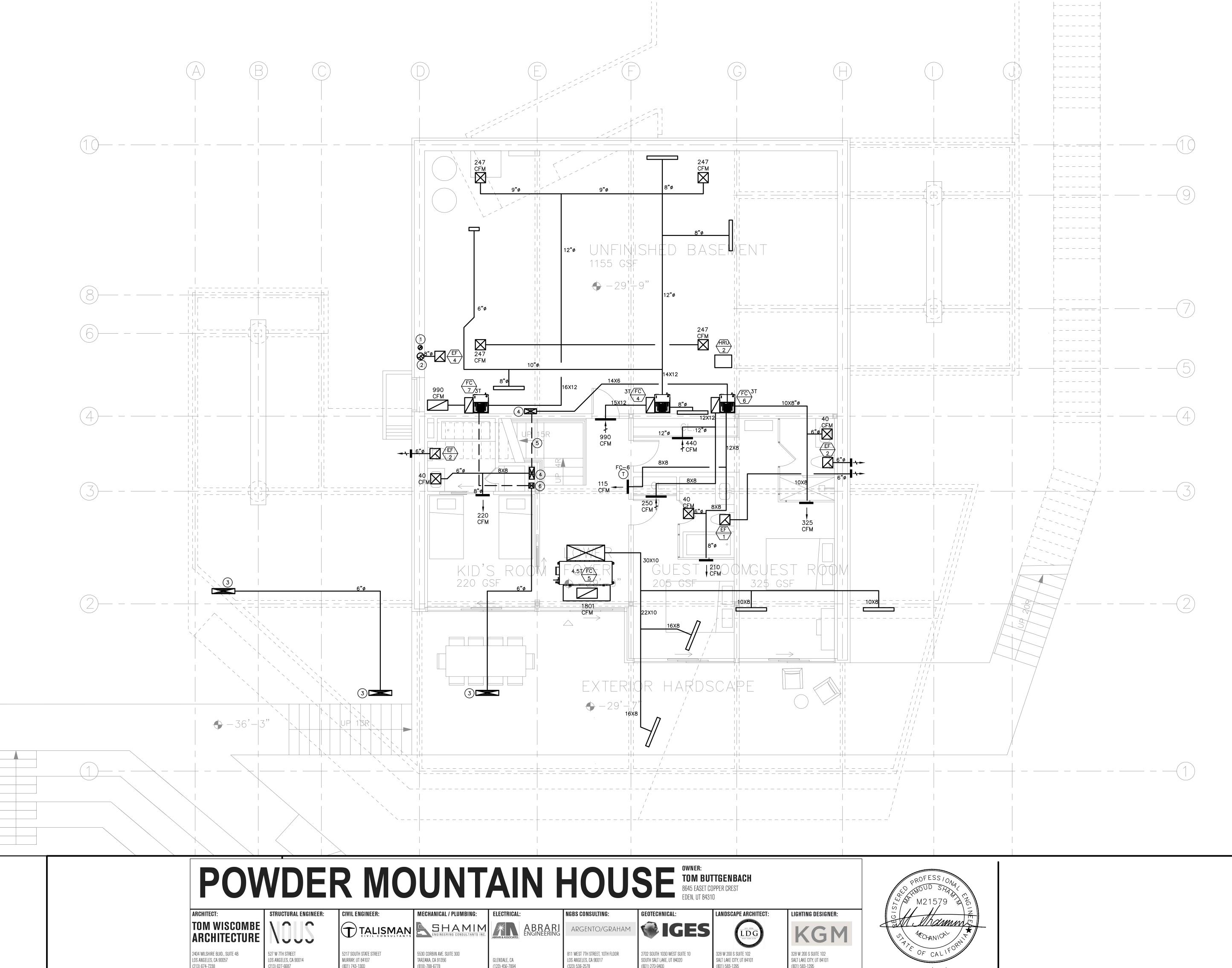


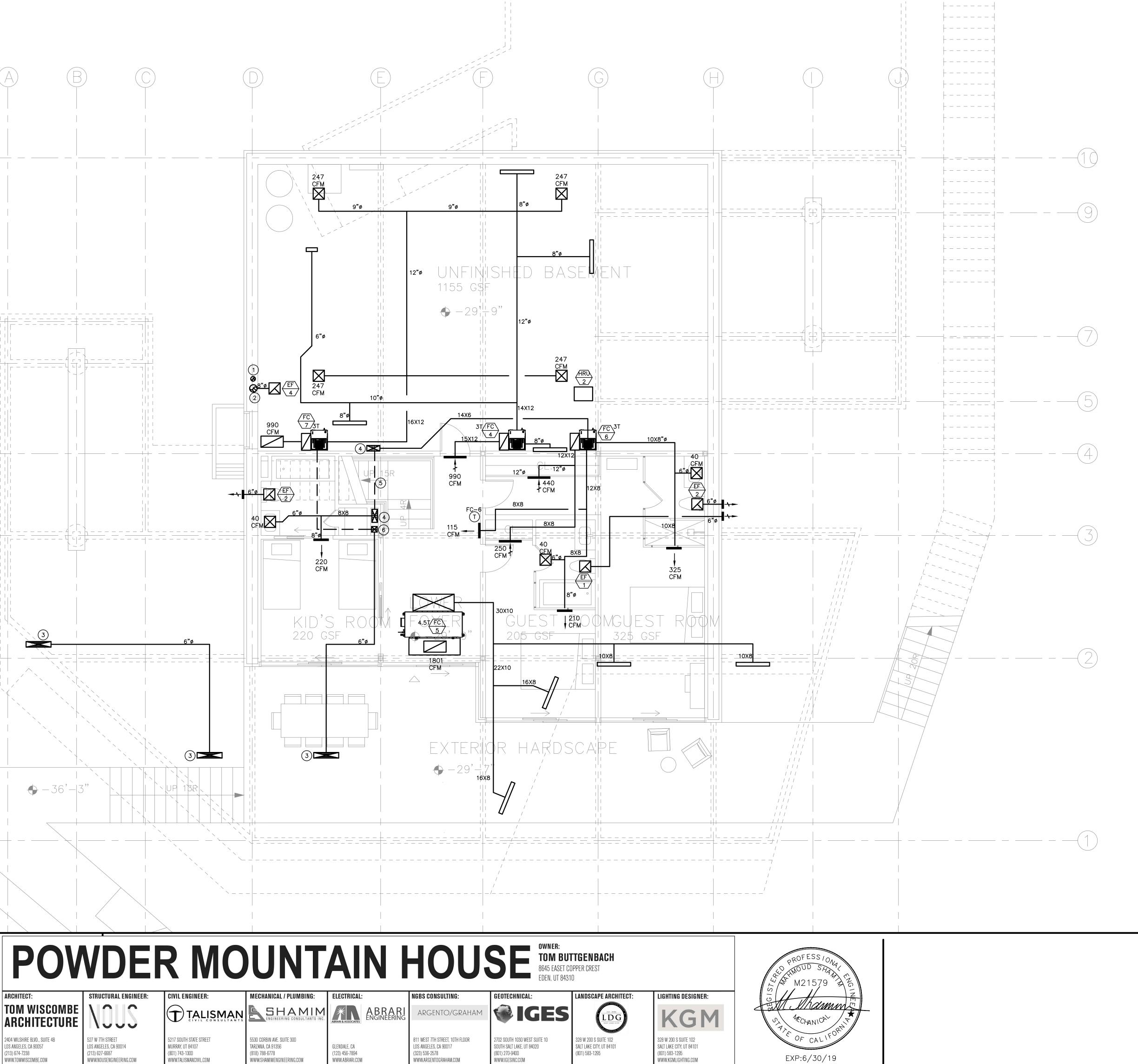
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- 5- CONCENTRIC WATER HEATER COMBUSTION INTAKE AND EXHAUST FLUE TO EXTERIOR WALL. VERIFY EXACT SIZE WITH MANUFACTURER.
- NUMBERED NOTES:
- 1) 5"ø DRYER EXHAUST DUCT UP.
- 2 8"¢ EXHAUST DUCT FROM BELOW TO TERMINATE WITH WEATHERCAP.
- (3) 2 SQ. FT. FREE AREA LOUVERED FOR OUTSIDE AIR.



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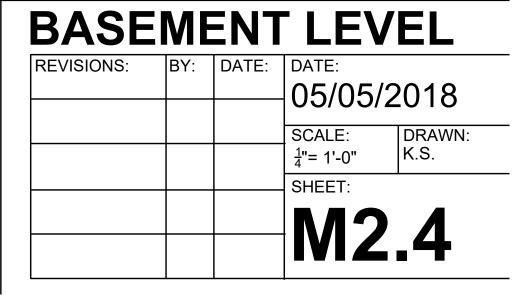
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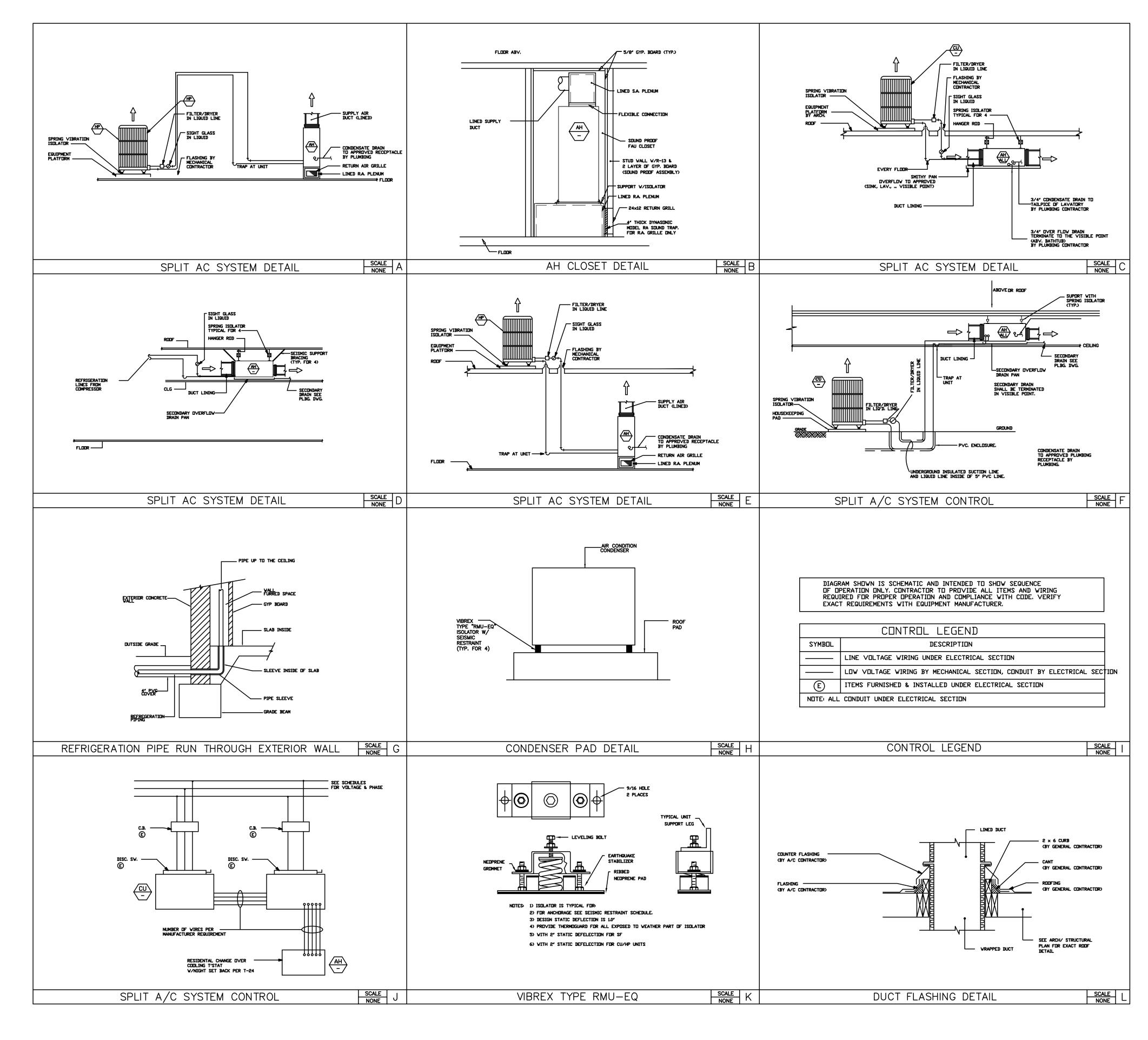
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NUMBERED NOTES:

- (1) 5"Ø DRYER EXHAUST DUCT UP.
- 2 8"ø EXHAUST DUCT UP.
- 3 2 SQ. FT. FREE AREA LOUVER FOR OUTSIDE AIR TO BE DUCTED TO THE UNIT AND OUTSIDE AIR CHASE..
- 4 14X6 SUPPLY DUCT TO RUN UNDER STAIR AND TO COME UP TO CEILING.
- 5 TO RUN RUN UNDER STAIRCASE CAVITY.
- 6 6X6 OUTSIDE AIR DUCT TO GO DOWN AND TO TRAVEL IN STAIR CAVITY TO UNIT.

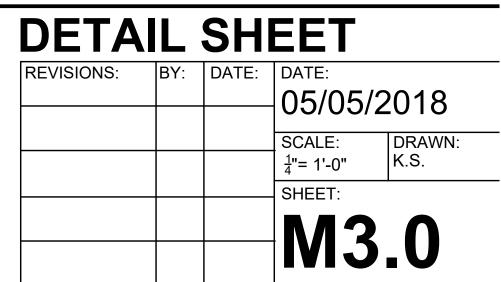


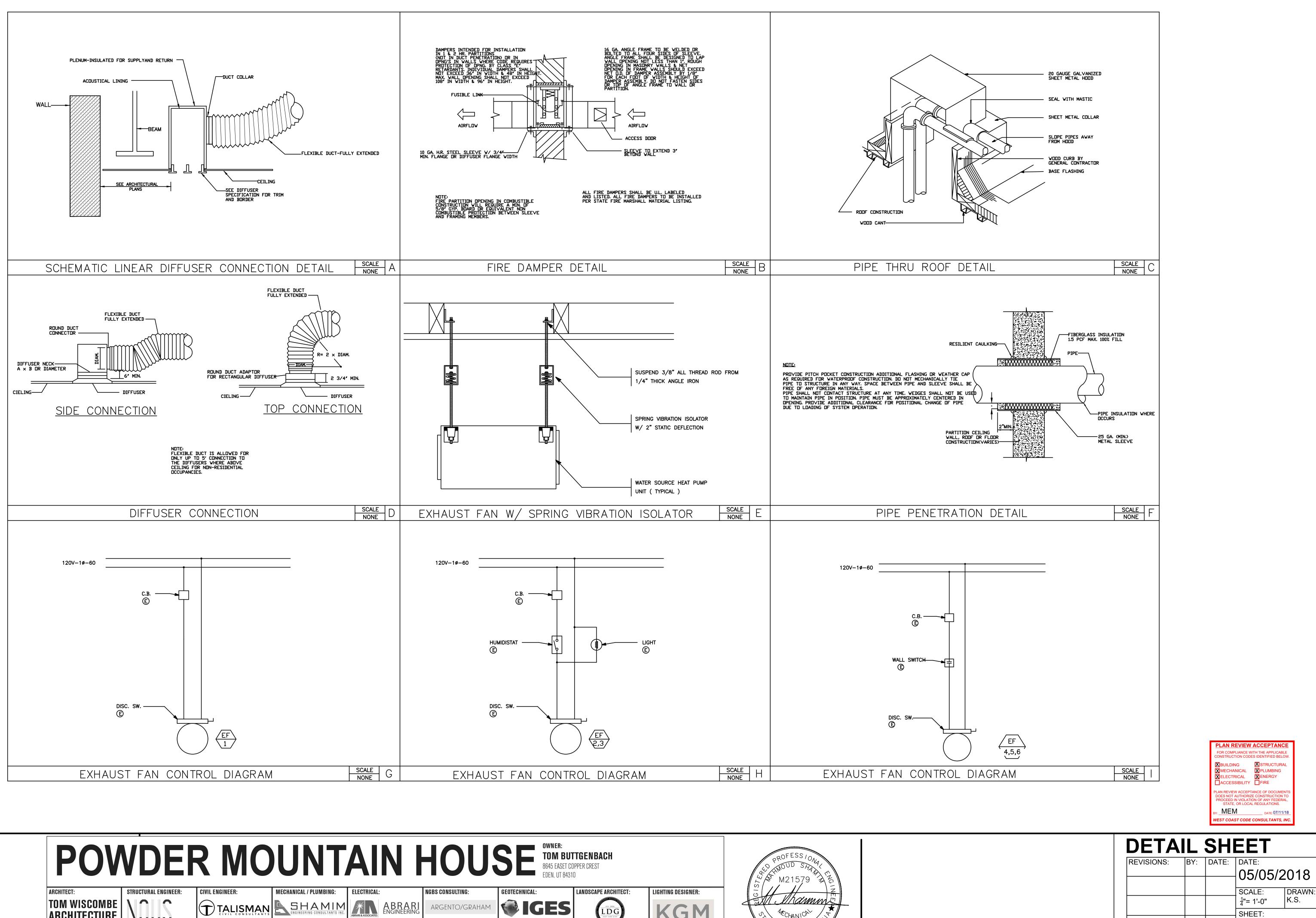












M3.1

