

CONSTRUCTION NOTES

- 1. DUCT INSULATION ALL HVAC SYSTEM DUCTWORK SHALL BE INSULATED AS REQUIRED BY CHAPTER 10 OF THE CALIFORNIA MECHANICAL CODE, TITLE 24, PART 4.27.
- 2. DUCT CONSTRUCTION ALL DUCTWORK SHALL BE FABRICATED, INSTALLED AND TESTED TO STANDARDS SET IN THE ASHRAE EQUIPMENT HANDBOOK LATEST EDITION AND TO METHODS ADOPTED BY SMACNA, HVAC DUCT CONSTRUCTION STANDARDS.
- 3. MAIN DUCTS TO BE INSULATED, 24 GA. MIN. GALV. STEEL, OR ALUMIFLEX UNLESS OTHERWISE INDICATED BY THE PLANS. SEAL ALL JOINTS WITH TAPE.
- 4. LATERAL RUNOUTS SHALL BE ALUMIFLEX OR UL-181 LISTED FIBERGLASS INSLUATED FLEXIBLE DUCT WITH GALV. COATED STEEL HELIX CORE. FLEXDUCT RUNS SHALL BE LIMITED TO THE FINAL 8' MAX OF THE RUN UNLESS OTHERWISE NOTED ON PLANS.
- 5. PROVIDE MANUAL BALANCING DAMPERS WHERE INDICATED ON PLANS. PROVIDE A BALANCE REPORT TO THE OWNER UPON COMPLETION OF THE WORK.
- 6. ALL DUCTS AND PIPING RUNS SHALL AVOID ARCHITECTURAL OPENINGS, STRUCTURAL MEMBERS, ELECTRICAL FIXTURES AND OTHER OBSTRUCTIONS AND SHALL BE PROPERLY SUPPORTED OR HUNG ACCORDING TO THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- 7. ALL SQUARE ELBOWS IN RECTANGULAR DUCTWORK SHALL HAVE AIR TURNING VANES.
- 8. REFER TO MANUFACTURERS CERTIFIED DRAWINGS FOR EXACT DIMENSIONS AND COMPLY WITH ALL MANUFACTURERS INSTALLATION SPECIFICATIONS, CLEARANCES AND REQUIREMENTS.
- 9. DRAWINGS ARE DIAGRAMMATIC ONLY INSTALL TO SUIT FIELD CONDITIONS. NOTIFY ENGINEER OR ARCHITECT IF FIELD MODIFICATIONS MAY AFFECT PERFORMANCE OF SYSTEM.
- 10. ALL EXTERIOR DUCTWORK SEAMS AND JOINTS TO BE SEALED WITH WATERPROOF MASTIC OR METAL TAPE. ALL PEJETRATIONS THROUGH BUILDING ARE TO BE FLASHED AND PROPERLY SEALED FOR WEATHER PROTECTION.
- 11. ALL ELECTRICAL SHALL BE IN EMT CONDUIT.
- 12. REVIEW LEAD AND ASBESTOS REPORT PRIOR TO ANY CONSTRUCTION OR DEMOLITION.
- 13. IT IS THE INTENTION TO PROVIDE FULL (100%) OUTSIDE AIR/ECONOMIZER COOLING WHEN CONDITIONS PERMIT. CONTRACTOR SHALL PROVIDE PROPOSED CONTROL SCHEMATIC FOR REVIEW BY OWNER & ENGINEER CONTROLS BY DELTA/ESI. EXCESS RETURN AIR MAY BE "DUMPED" INTO ATTIC SPACE DURING ECONOMIZER MODE.
- MINIMUM OSA (FRESH AIR)E ON LOW FAN = 400 CFM, MIN. OSA ON HIGH FAN = 800 CFM.
- 14. PROVIDE WERNER WH3010 30.5in W x 54in L x 10ft H Ceiling Heavy Duty Wood Attic Ladder. INSTALL PER MANUFACTURER INSTRUCTIONS.
- 15. HARD PIPE CONDENSATE DRAINS TO SANITARY SEWER

MECHANICAL LEGEND

MECHANICAL EQUIP IDENTIFICATION UNIT NUMBER AIR DISTRIBUTION FIXTURE UNIT NUMBER

300/150 RETURN REGISTER − HIGH/LOW SPEED CFM RATING SUPPLY REGISTER -HIGH/LOW SPEED CFM RATING THERMOSTAT, HT/COOL

MOTORIZED ZONE DAMPER & CONTROLLER MANUAL DAMPER, BALANCING

INSULATED ROUND DUCTING - DIAMETER RECTANGULAR METAL RECTANGULAR TO ROUND

DUCT TRANSITION —— C —— CONDENSATE DRAIN LINE

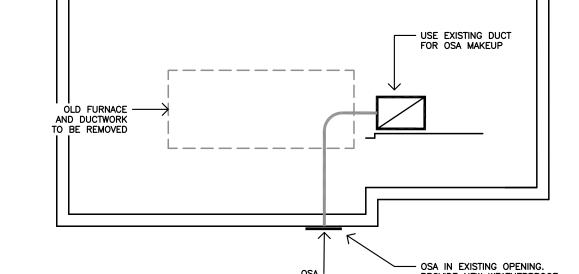
ABBREVIATIONS

SUPPLY AIR RETURN AIR OUTSIDE AIR CEILING SUPPLY DIFFUSER
CEILING RETURN GRILLE
WALL SUPPLY DIFFUSER
WALL RETURN GRILLE MANUAL DAMPER MIXING BOX
ENERGY EFFICIENCY RATIO
SEASONAL EER EER SEER COP AFUE COEFFICIENT OF PERFORMANCE
ANNUAL FUEL UTILIZATION EFFICIENCY
MAX OVERCURRENT PROTECTION MOCP FLA IFM OFM

FULL LOAD AMPS
INSIDE FAN MOTOR
OUTSIDE FAN MOTOR
FUSED DISCONNECT LIQUID PROPANE CUBIC FEET PER MINUTE THERMOSTAT

AIR CONDITIONER HEAT PUMP FURNACE





BASEMENT LEVEL

HEATING, VENTILATION, AND AIR CONDITIONING EQUIPMENT SCHEDULE

MARK	QUANTITY	HEATING BTU INPUT	HEATING EFF S	% COOLING BTU CAPACITY	COOLING EFF SEER	VENTILATION TOTAL CFM	OSA	ELEC DATA VOLTS/HZ/PH	FLA	MANUFACTURER, MODEL, DATA	ACCESSORIE
F1, F2	2	76,600 - 120,000	97.0	-	-	1123-2250	250	120/1/60	13.9	TRANE S9V2D120U5V FURNACE	1,3
AC1, AC2	2	_	_	60,000	17.0	_	-	208/230/1/60	32	TRANE 4TTR6061C1000A A/C UNIT	-
DX1, DX2	2	_	_	60,000	-	1123-2250	-	-	_	TRANE 4TXCD010DS3 COIL	-
MB1, MB2	2	_	_	_	_	-	_	230/60/1		MICROMETL MB-GP20CA-DYDB MIXING BOX	2

SUPPLY/RETURN/DIFFUSER/GRILL/VENT SCHEDULE

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MARK	QTY	TYPE	NOM CFM	NOMINAL SIZE	MANUFACTURER - MODEL/DESCRIPTION	ACCESS.	HVAC ACCESSORIES	
CD1	11	4-WAY CEILING DIFFUSER, FLUSH	394	14 X 14	SHOEMAKER CB40, ALUM, SOFT WHITE	1.	1. CB40-0 OPPOSED	BLADE DAMPER
CD2	5	4-WAY CEILING DIFFUSER, FLUSH	283	12 X 12	SHOEMAKER CB40, ALUM, SOFT WHITE	1.		
CD3	2	4-WAY CEILING DIFFUSER, FLUSH	116	8 X 8	SHOEMAKER CB40, ALUM, SOFT WHITE	1.		
CG1	4	CEILING RETURN GRILL ALU. LATTICE	1340	18 X 18	SHOEMAKER 600, ALUM, SOFT WHITE			
WG1	1	WALL RETURN GRILL ALU. LATTICE	1340	18 X 18	SHOEMAKER 905, ALUM, SOFT WHITE			

HVAC ACCESSORIES

- 1. BAYFLTR206 FILTER ACCESS DOOR KIT
- 2. ECONIMIZER WITH SOLID STATE ENTHALPY CONTROL
- 3. DELTA CONTROLS BY ESI ENVIRONMENTAL SYSTEMS, INC. SACRAMENTO, CA

DATE AUG 2018 SCALE 3/16"=1'-0" DRAWN SSB 1807-03

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