HYDRONIC SYSTEM LEGEND 1. CONTRACTORS SHALL BE RESPONSIBLE FOR PERFORMING ALL TITLE 24 ACCEPTANCE TESTS IN ABBR. DESCRIPTION SYMBOL COMPLIANCE WITH 2005 NON RESIDENTIAL COMPLIANCE MANUAL SECTION 8 "ACCEPTANCE REQUIREMENTS". CONTRACTORS SHALL COMPLETE AND SUBMIT ALL REQUIRED FORMS TO THE CITY AND SHALL BE RESPONSIBLE FOR OBTAINING PERMIT FROM THE CITY. 2. CONTRACTORS MUST OBTAIN ACCEPTANCE TEST PERMIT PRIOR TO FINAL CERTIFICATE OF OCCUPANCY. PIPE DROP TITLE 24 ACCEPTANCE TESTING NONE PIPE TEE OFF THE TOP PIPE TEE OFF THE BOTTOM PIPE TEE OFF THE SIDE BLIND FLANGE 1. ALL WORK SHALL BE IN ACCORDANCE WITH CITY CODES, STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS AND ALL OTHER APPLICABLE CODES. END CAP PIPE BREAK 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION & PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, EQUIPMENT, AREAS & PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY DEMOLITION AND / OR NEW DIRT LEG CLEAN OUT 3. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION & SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS & WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES & GOVERNING REGULATIONS & SHALL MEET WITH THE APPROVAL OF THE CITY & STATE \_\_\_\_ DIRECTION OF FLOW FIRE MARSHAL . REDUCER - CONCENTRIC ───────── RED 4. ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE REDUCER - ECCENTRIC | REI RESPONSIBLE FOR THE REVIEW & COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, AIR CONDITIONING, PLUMBING & ELECTRICAL. ANY DISCREPANCIES THAT OCCUR FLEXIBLE CONNECTION SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A PIPE ANCHOR -X-CLARIFICATION MAY BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, & AT NO EXPENSE TO PIPE GUIDE THE OWNER. EXPANSION JOINT 5. <u>DO NOT SCALE DRAWINGS</u> — ALL DIMENSIONS & JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR SLOPE PIPE SLOPE (REFER TO PLANS FOR SLOPE) AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF CONSTRUCTION AND / OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION. TEMPERATURE SENSOR 6. CONTRACTOR SHALL COORDINATE ALL DUCT, PIPE AND EQUIPMENT LOCATIONS WITH ELECTRICAL, STRUCTURAL, - CHWS — CHWS CHILLED WATER SUPPLY PLUMBING AND ALL OTHER TRADES. CHILLED WATER RETURN - CHWR -- CHWR 7. ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION. COORDINATE DUCTWORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT. - CTBD — CTBD COOLING TOWER BLOW DOWN COOLING TOWER WATER SUPPLY 8. ROOM THERMOSTATS SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55°F. TO 85°F, AND BE CAPABLE OF OPERATING THE HEATING AND COOLING IN SEQUENCE. THERMOSTATS CTWR — CTWR COOLING TOWER WATER RETURN SHALL BE ADJUSTABLE TO PROVIDE A TEMPERATURE RANGE OF UP TO 10^ F. BETWEEN FULL HEATING & FULL - CWS — CWS CONDENSER WATER SUPPLY COOLING BEING SUPPLIED. CONTROLS SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NOT MORE THAN 70° F. AND COOLING AT A TEMPERATURE NOT LESS THAN 78° F. cwr — cwr CONDENSER WATER RETURN TEMPERATURE CONTROL SYSTEM SHALL OPERATE IN ACCORDANCE WITH THE BASE BUILDING SEQUENCE OF GHWS — GHWS GEOTHERMAL HOT WATER SUPPLY - GHWR — |GHWR GEOTHERMAL HOT WATER RETURN 9. ADJUSTABLE THERMOSTAT SHALL BE WALL MOUNTED 48" A.F.F. TEMPERATURE SENSORS SHALL BE WALL MOUNTED 60" A.F.F. --- GS --- | GS GLYCOL SUPPLY GLYCOL RETURN — GR —— |GR 10. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 118 E.E.S. HEATING HOT WATER SUPPLY HWS — HWS 11. WHERE SOUND INSULATION IS INDICATED, DUCT DIMENSIONS ARE NET CLEAR - e.g. AFTER INSULATION HAS HWR — HWR HEATING HOT WATER RETURN - HPWS — HPWS HEAT PUMP WATER SUPPLY 12. MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH SECTION 602.2 CMC. - HPWR — HPWR HEAT PUMP WATER RETURN 13. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED & TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF HOT OR COLD WATER SUPPLY (DUAL TEMP) - HCS - | HCS LOCAL REGULATIONS & PROCEDURES DETAILED IN THE A.S.H.R.A.E. HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY S.M.A.C.N.A. PROVIDE RECTANGULAR DUCTS OF GALVANIZED STEEL AND HOT OR COLD WATER RETURN (DUAL TEMP) — HCR — THCR PREFABRICATED SPIRAL LOCK- SEAM DUCTS & FITTINGS. HTWS — HTWS HIGH TEMPERATURE WATER SUPPLY 14. ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 118, 123 HTWR — | HTWR HIGH TEMPERATURE WATER RETURN AND 124 E.E.S. AND TABLE 6-4 C.M.C. MEDIUM TEMPERATURE WATER SUPPLY 15. SEE PLUMBING DRAWINGS FOR PRIMARY & SECONDARY CONDENSATE DRAINS. MEDIUM TEMPERATURE WATER RETURN 16. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCTS OF AIR MOVING SYSTEMS EXCEEDING 2000 CFM PER MUW — MUW SECTION 609.0 CMC. PCHWS - PCHWS PROCESS CHILLED WATER SUPPLY 17. PROVIDE SMOKE DETECTORS LOCATED AT EACH STORY FOR RETURN AIR SYSTEMS WHICH SERVE MORE THAN PROCESS CHILLED WATER RETURN - PCHWR - PCHWR ONE STORY AND EXCEED 15,000 CFM PER NFPA 90A. — RD — REFRIGERANT DISCHARGE 18. ALL COOLING UNITS EXCEEDING 2500 CFM SHALL INCLUDE A 100% OUTSIDE AIR ECONOMIZER. — LPS — |LP LOW PRESSURE STEAM 19. NO RANGE HOOD VENTS, DRYER VENTS, COMBUSTION VENTS OR HEATING DUCTS ARE PERMITTED IN AREA — LPR — |L LOW PRESSURE CONDENSATE RETURN SEPARATION WALLS. — HPS — | HPS HIGH PRESSURE STEAM 20. PROVIDE BALANCING VOLUME DAMPERS IN EACH BRANCH DUCT AND IN EACH MAIN DUCT TO PROVIDE FOR HIGH PRESSURE CONDENSATE RETURN —— HPR —— | HPR COMPLETE AIR BALANCING. PROVIDE ADEQUATE ACCESS. OPPOSED BLADE DAMPERS (OBD'S) ARE NOT — PC — PUMPED STEAM CONDENSATE CONSIDERED BALANCING DAMPERS. AUTOMATIC AIR VENT 21. SEE ARCHITECTURAL DWGS . FOR ADDITIONAL ENERGY CONSERVATION NOTES. 22. ROOF ACCESS LADDER SHALL COMPLY WITH SECTION 910.8 CMC. ANGLE VALVE - ELEVATION 23. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING DIFFUSERS AND GRILLES. <del>----</del><del>(</del> ANGLE VALVE - PLAN **─** BALL VALVE 24. MINIMUM OUTDOOR AIR REQUIREMENTS: 15 C.F.M. / PERSON. **—** ф ⊢ В' BALL VALVE W/ MEMORY STOP 25. REFER TO THE MANDATORY MEASURES FOR THE ENERGY EFFICIENCY STANDARDS REQUIREMENTS. BUTTERFLY VALVE ——| **≠** | BFV 22. ALL CEILING DIFFUSERS SHALL BE 4 - WAY THROW UNLESS SHOWN OTHERWISE. ——| J#F | BF \ BUTTERFLY VALVE W/ MEMORY STOP 23. ADJUST PATTERN DEVICES OF ALL AIR OUTLETS AS INDICATED ON DRAWINGS AND/OR FOR PROPER AIR MOTORIZED BUTTERFLY VALVE DISTRIBUTION WITH CONSIDERATION FOR COMFORT AND SOUND CONDITIONS. CIRCUIT SETTER 24. DASHED LINES AT EQUIPMENT TO INDICATE FREE AREA REQUIRED FOR MAINTENANCE AND COIL PULL. ——— | CBS COMBO. BALANCING/ SHUTOFF VALVE 25. NO PENETRATIONS OTHER THAN THOSE NECESSARY FOR THE PURPOSE OF THE SHAFT SHALL BE ALLOWED PER COMBO. BALANCING/ SHUTOFF VALVE W/PRESS. TAPS 26. REFER TO SHEET A0010 FOR A LIST OF DEFERRED SUBMITTALS TO INCLUDE DUCT DETECTORS AND LISTED FIRE STOPPING DETAILS AND LISTING NUMBERS FOR THE FIRE STOPPING OF MECHANICAL PIPING PENETRATIONS —⅓— CONTROL VALVE . — <del>\$</del>— 1 CONTROL VALVE - 3 WAY CONTROL VALVE - 3 WAY W/ MODUALATING ACTUATOR **───────** — CHV GENERAL NOTES NONE ----|0≱ DRAIN OFF VALVE (BALL VALVE W/ HOSE BIBB, CAP, & CHAIN) FLOAT OPERATED VALVE LEGEND ABBREVIATIONS GENERAL NOTES TITLE 24 AND SHEET IN FLOW CONTROL VALVE COMPLIANCE FORMS FM FLOW METER MECHANICAL SCHEDULES ——— FI MECHANICAL SCHEDULES FLOW METER - VENTURI MECHANICAL SCHEDULES FLOW SWITCH MECHANICAL SCHEDULES - $\triangleright$  $\downarrow$ GATE VALVE MECHANICAL SCHEDULES —D¤√— ( GLOBE VALVE MECHANICAL SCHEDULES ISOLATION VALVE MECHANICAL SCHEDULES MANUAL AIR VENT MECHANICAL SCHEDULES ——>>\$\big| PRV PRESSURE REDUCING VALVE MECHANICAL SCHEDULES MECHANICAL SCHEDULES PRESSURE SUSTAINING VALVE **────**──── MECHANICAL SCHEDULES PRESSURE GAUGE MECHANICAL SCHEDULES PARTIAL MECHANICAL VIVARIUM PLAN - ZONE 1 PRESSURE GAUGE W/ COIL SIPHON PARTIAL MECHANICAL VIVARIUM PLAN - ZONE 2 PUMP (TRIANGLE INDICATES FLOW DIRECTION) PARTIAL MECHANICAL VIVARIUM PLAN — ZONE 3 PARTIAL MECHANICAL INTERSTITIAL PLAN - ZONE 1 **→**>> QUICK OPENING VALVE PARTIAL MECHANICAL INTERSTITIAL PLAN - ZONE 2 SAFETY RELIEF VALVE PARTIAL MECHANICAL INTERSTITIAL PLAN - ZONE 3 M22B13 PARTIAL MECHANICAL FIRST FLOOR PLAN - ZONE 1 SOLENOID VALVE PARTIAL MECHANICAL FIRST FLOOR PLAN - ZONE 2 M2212 <del>----8</del> | STR STRAINER - DUPLEX M2213 PARTIAL MECHANICAL FIRST FLOOR PLAN - ZONE 3 STR M2214 PARTIAL MECHANICAL FIRST FLOOR PLAN - ZONE 4 STR STRAINER W/ DRAIN VALVE, HOSE BIBB, & CAP (USE GATE VALVE FOR STEAM) PARTIAL MECHANICAL FIRST FLOOR PLAN - ZONE 5 TT ISTR PARTIAL MECHANICAL SECOND FLOOR PLAN - ZONE 1 STRAINER - BASKET TYPE W/ DRAIN VALVE, HOSE BIBB, & CAP PARTIAL MECHANICAL SECOND FLOOR PLAN - ZONE 2  $-\otimes$ STEAM TRAP PARTIAL MECHANICAL SECOND FLOOR PLAN - ZONE 3 THERMOSTATIC AIR VENT (STEAM ONLY) PARTIAL MECHANICAL SECOND FLOOR PLAN - ZONE 4 PARTIAL MECHANICAL THIRD FLOOR PLAN — ZONE 1 THERMOMETER M2232 PARTIAL MECHANICAL THIRD FLOOR PLAN - ZONE 2 TEST WELL (PETE"S PLUG) PARTIAL MECHANICAL FOURTH FLOOR PLAN - ZONE 1 TRIPLE DUTY VALVE PARTIAL MECHANICAL FOURTH FLOOR PLAN - ZONE 2 UNION PARTIAL MECHANICAL ROOF PLAN - ZONE 1 VACUUM BREAKER M2252 PARTIAL MECHANICAL ROOF PLAN - ZONE 2 PARTIAL MECHANICAL UPPER ROOF PLAN BOILER BLOW DOWN PARTIAL MECHANICAL PIPING FIRST FLOOR PLAN - ZONE 1 BOILER FEEDWATER PARTIAL MECHANICAL PIPING FIRST FLOOR PLAN — ZONE 2 FLOW COEFFICIENT MP2221 PARTIAL MECHANICAL PIPING SECOND FLOOR PLAN - ZONE 1 ENTERING WATER TEMPERATURE PARTIAL MECHANICAL PIPING SECOND FLOOR PLAN - ZONE 2 HEAD MP2231 PARTIAL MECHANICAL PIPING THIRD FLOOR PLAN - ZONE 1 LEAVING WATER TEMPERATURE PARTIAL MECHANICAL PIPING THIRD FLOOR PLAN - ZONE 2 NET POSITIVE SUCTION HEAD MP2241 PARTIAL MECHANICAL PIPING FOURTH FLOOR - ZONE 1 NET POSITIVE SUCTION HEAD AVAILABLE

SYMBOL	ABBR.	DESCRIPTION
	MFR	MANUFACTURER
	MH	MANHOLE
	MIN	MINIMUM  MANIMUM OVERCURRENT PROTECTION
	MOCP MTD	MAXIMUM OVERCURRENT PROTECTION  MOUNTED
	N/A	NOT APPLICABLE
	NC	NORMALLY CLOSED OR NOISE CRITERIA
	NIC	NOT IN CONTRACT
	NO	NORMALLY OPEN OR NUMBER
	NOM	NOMINAL
*	NTS	NOT TO SCALE
	OB OC	OCTAVE BAND ON CENTER
E	ODP	OPEN DRIP PROOF
	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
E-1-17, E-18-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	OFOI	OWNER FURNISHED OWNER INSTALLED
	ov	OUTLET VELOCITY
	PCF	POUNDS PER CUBIC FOOT
	PD	PRESSURE DROP
	PH	PHASE
	PLBG POS	PLUMBING POSITION OR POSITIVE
	PRESS	PRESSURE POSITIVE
	PRIM	PRIMARY
: 	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
	PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
	PSIG	POUNDS PER SQUARE INCH GAUGE
	PVC	POLYVINYL CHLORIDE
	RC	ROOM CRITERIA (NOISE)
	REP RET	REPRESENTATIVE RETURN
	REQD	REQUIRED
	REQS	REQUIREMENTS
	RH	RELATIVE HUMIDITY
	RM	ROOM
***************************************	RPM	REVOLUTIONS PER MINUTE
	SC	SENSIBLE COOLING
	SCH	SCHEDULE
	SH	SENSIBLE HEAT SHEET
	SPECS	SPECIFICATIONS
	SQ	SQUARE
	SQFT	SQUARE FEET
	SS	STAINLESS STEEL
	STD	STANDARD
	STBY	STANDBY STEEL
	SUCT	SUCTION
	SUP	SUPPLY
	TA	THROW-AWAY
	TAV	THERMOSTATIC AIR VENT
	TEFC	TOTALLY ENCLOSED FAN COOLED
	TEL	TELEPHONE
	TEMP	TEMPERATURE
	TON	TOP OF DUCT TONS OF REFRIGERATION
	TOP	TOP OF PIPE
	UNO	UNLESS NOTED OTHERWISE
	UTR	UP THROUGH ROOF
	V	VENT
	W	VARIABLE VOLUME
	VEL	VELOCITY
d	VERT	VERTICAL
	VFD VTR	VARIABLE FREQUENCY DRIVE  VENT THROUGH ROOF
	W	WDTH
,	"  W/	WITH
	w/o	WITHOUT
	WB	WET BULB TEMPERATURE
	WF	WIDE FLANGE
	WG	WATER GAUGE
·	WRT	WITH RESPECT TO
	XFMR	TRANSFORMER

DESCRIPTION

EQUIPMENT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.

EQUIPMENT NOT REQUIRING ELECTRICAL SERVICE.

REFER TO SCHEDULES FOR PERFORMANCE

DIFFUSER/ GRILLE TAG. REFER TO SCHEDULE.

REQUIREMENTS.

SECTION CALLOUT

DETAIL CALLOUT

REVISION CALLOUT

KEYNOTE CALLOUT

SYMBOL

SCHEDULE TAG A12 NECK SIZE (IN. SQ.)

1 SECTION DESIGNATION

M3.1 SHEET NUMBER

NET POSITIVE SUCTION HEAD REQUIRED

SECONDARY (SYSTEM DEPENDENT PREFIX)

TERTIARY (SYSTEM DEPENDENT PREFIX)

OUTSIDE STEM AND YOKE

SHUT-OFF VALVE

TOTAL DYNAMIC HEAD

WATER PRESSURE DROP

T(XXX)

SCALE NONE

Warning: It is a violation of the law for any person, unless acting under the direction of a licensed architect, to alter an item in any way. If an item in this document is altered by follows by his signiture and the date of such alteration, and the specific description of the alteration

SHEET NUMBER

	POC	POINT OF CONNECTION
<b>₩</b>	POD	POINT OF DEMARCATION
<u> </u>	-	DEMO EXISTING
<u> </u>		CAP EXISTING
R	EXTRM	EXTING TO BE REMOVED
E	ETR	EXISTING TO REMAIN
$\langle E \rangle$		FURNISHED & INSTALLED BY ELECTRICAL
$- \not\equiv -$		
$\langle M \rangle$		FURNISHED & INSTALLED BY MECHANICAL
(ME)		FURNISHED BY MECHANICAL INSTALLED BY ELECTRICAL
	F	DEGREES FAHRENHEIT
	С	DEGREES CELSIUS
	_	DIAMETER
	AD	ACCESS DOOR
	ADJ	ADJUSTABLE
	ADDL	ADITIONAL
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	ALT	ALTERNATE
NICONOMINATOR	AP	ACCESS PANEL
	ARCH	ARCHITECT
	ATC	AUTOMATIC TEMPERATURE CONTROL
	ATV	ATMOSPHERIC VENT
	AVG	AVERAGE
	BD	BOARD
	BFF	BELOW FINISHED FLOOR
	BHP	BRAKE HORSEPOWER
	BLDG	BUILDING
	BOD	BOTTOM OF DUCT
	BMS	BUILDING MANAGEMENT CONTROL SYSTEM
	BOP	BOTTOM OF PIPE
	BSMT	BASEMENT BASEMENT
	BTU	BRITISH THERMAL UNIT
	BTUH	BRITISH THERMAL UNIT PER HOUR
,	CAP	CAPACITY
7	CF	CEILING FAN
	CLG	CEILING
	CL	CENTERLINE
	COL	COLUMN
	CONC	CONCRETE
	CONN	CONNECTION
	CONT	CONTINUATION
	CONTR	CONTRACTOR
	CORR	CORRIDOR
·	CUF	CUBIC FEET
	CYL	CYLINDER
	D	DRAIN
*	DB	DRY BULB TEMPERATURE
	DDC	DIRECT DIGITAL CONTROL
,	DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL
	DIM	DIMENSION
	DIM	DIMENSION
	DN	DOWN
	DP	DIFFERENTIAL PRESSURE
	DTR	DOWN THROUGH ROOF
	DWG	DRAWING
	EA	EACH
	EFF	EFFICIENCY
	ELEC	ELECTRICAL
	ELEV	ELEVATION
	EMER	EMERGENCY
	ENT	ENTERING
	EQUIP	EQUIPMENT
	EXH	EXHAUST
	EXP	EXPANSION
	(E)	EXISTING
	FD	FLOOR DRAIN
	FFOP	FIREFIGHTERS OVERRIDE PANEL
	FG	FIBERGLASS
	FLEX	FLEXIBLE
	FLR	FLOOR
	FP	FIRE PROTECTION
	FPM	FEET PER MINUTE
	FT /CEO	FEET DED SECOND
	FT/SEC	FEET PER SECOND
	FURN	FURNISHED
	FVNR	FULL VOLTAGE NON—REVERSING
***************************************	G	GAS
	GA	GAUGE
	GAL	GALLONS
	GALV	GALVANIZED
	GND	GROUND
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
		GRADE
	GRD	
	GYP	GYPSUM BOARD
	H ===	HEIGHT
	HCPD	HANDICAPPED
	HP	HORSEPOWER
	HPG	HIGH PRESSURE GAS
	HR	HOUR
	HZ	HERTZ
	ID	INSIDE DIAMETER
	IN	INCHES
	INSUL	INSULATION
<del>Number of the Section of the Sectio</del>	KW	KILOWATT
	KVA	KILOVOLT AMPERE
	L	LENGTH
•	LAB	LABORATORY
		POUND
	IIR	
	LB	I LATENT COOLING
	LC	LATENT COOLING
	LC LF	LINEAR FEET
	LC	
	LC LF	LINEAR FEET
	LC LF LVG	LINEAR FEET LEAVING
	LC LF LVG M	LINEAR FEET  LEAVING  ONE THOUSAND
	LC LF LVG M MAX	LINEAR FEET  LEAVING  ONE THOUSAND  MAXIMUM
	LC LF LVG M MAX MBH	LINEAR FEET  LEAVING  ONE THOUSAND  MAXIMUM  THOUSAND BRITISH THERMAL UNITS PER HOUR
	LC LF LVG M MAX MBH MCA	LINEAR FEET  LEAVING  ONE THOUSAND  MAXIMUM  THOUSAND BRITISH THERMAL UNITS PER HOUR  MINIMUM CIRCUIT AMPS

GENERAL HVAC LEGEND

ABBR.

DESCRIPTION

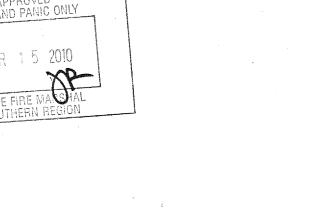
POINT OF CONNECTION

SYMBOL

SYMBOL		AIR SYSTEM LEGEND	ISSUED FOR	D.
2 IMPOL	ADDD		Pre-Schematic Design Schematic Design BID PK #1	07/1 07/2 10/0
	ABBR.	DESCRIPTION  DESCRIPTION	50% Progress BID PK #1 80 CD	10/24 12/0
<b>をして</b>		RECTANGULAR SUPPLY/ OUTSIDE AIR DUCT UP  RECTANGULAR SUPPLY/ OUTSIDE AIR DUCT DOWN	BID PK #1 100 CD BID PK #2 100 CD	02/1
<del></del>		RECTANGULAR RETURN/ RELIEF AIR DUCT UP	100% CD CD 4	05/08
7 1 1		RECTANGULAR RETURN/ RELIEF AIR DUCT DOWN	COB 1 /3 COB 2 /4	02/26
		RECTANGULAR EXHAUST AIR DUCT UP	CD 4	04/1
		RECTANGULAR EXHAUST AIR DUCT DOWN		
<del>-</del>		ROUND SUPPLY/ OUTSIDE AIR DUCT UP		
<b>₹</b>		ROUND SUPPLY/ OUTSIDE AIR DUCT DN		
7 10		ROUND RETURN/ RELIEF AIR DUCT UP		
		ROUND RETURN/ RELIEF AIR DUCT DN		
7 1 0		ROUND EXHAUST AIR DUCT UP		
7 10		ROUND EXHAUST AIR DUCT DN		
	SI	DUCT WITH LINING OR SOUND INSULATION		
	SS	STAINLESS STEEL DUCT	∣Щ	
==3		PVC COATED DUCT		
ACD		DOUBLE WALL DUCT	<u>O</u>	
BDD	ACD	AUTOMATIC CONTROL DAMPER		
	BDD	BACKDRAFT DAMPER	Ш	
<u> </u>	<b> </b>	FIRE DAMPER		
\$ S	S	MOTORIZED DAMPER  SMOKE DAMPER		
SFD	SFD	COMBINATION SMOKE/FIRE DAMPER		
SGD L	SGD	SLIDE GATE DAMPER	ATI	
7 11 1 7 11 1	VD	MANUAL VOLUME DAMPER	4	
CFM		SPACE PRESSURIZATION ARROW		
DL/UC —V—	DL/ UC	DOOR LOUVER / UNDERCUT DOOR		
en de grande de la constante d		SUPPLY AIRFLOW ARROW  RETURN OR EXHAUST AIRFLOW ARROW	Z	Щ >
	FC	FLEXIBLE CONNECTION	Щ	AIC DRIVE
	AVS	AIR VOLUME TRAVERSE STATION	J O	ည်
	CD	CEILING DIFFUSER (SUPPLY)		<u> </u>
	RG	RETURN AIR GRILLE OR REGISTER		
h	EG	EXHAUST AIR GRILLE OR REGISTER	M (	
<u></u> ] ⊕ <sub>x</sub>		SIDE WALL GRILLE HUMIDITY SENSOR OR HUMIDISTAT AND NUMBER		2880 TORREY PINES SCENIC
©x		SENSOR AND NUMBER		کلاً '
<u></u>		SWITCH AND NUMBER  TEMPERATURE SENSOR OR THERMOSTAT & ZONE NUMBER		유.
①x		TEMPERATURE SENSOR OR THERMOSTAT W/ VANDAL GUARD& ZONE NUMBER		)  -  -  -
YM		REMOTE DAMPER OPERATOR		ეგგე -
©2	CO2	CO2 LEVEL SENSOR		N
(DP)	DP	DIFFERENTIAL PRESSURE SENSOR		
(02)	02	OXYGEN DEPLETION SENSOR/ALARM	S	
(RD)	RD	REFRIGERANT DETECTOR	SZ	
(SD)	SD	DUCT SMOKE DETECTOR	0	
SP	SP RL	STATIC PRESSURE SENSOR  REFRIGERANT LIQUID	O	
— RL — — — RS —	RS	REFRIGERANT SUCTION		
	AC AF	AIR CONDITIONING  AIR FOIL		
	APD	AIR PRESURE DROP	$\overline{O}$	
	AT BI	AIR TERMINAL BACKWARD INCLINE		
	<b></b>	COMBUSTION AIR	1 "	
	CA	CUDIC ECET OFD MINUTE	Z	
	CA CFM CV	CUBIC FEET PER MINUTE  CONSTANT VOLUME	N Z	
	CFM CV DWDI	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET	SAN	
	CFM CV DWDI DWSI DX	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION	SAN	
	CFM CV DWDI DWSI	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET	SAN	
	CFM CV DWDI DWSI DX EA EAT	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC	SAN SAN	
	CFM CV DWDI DWSI DX EA EAT	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE	SAN	
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE	8	1565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH	8	958.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA	8	55   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER	8	n Diego, CA 92121 3.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA	CONSTANT VOLUME  DOUBLE WDTH DOUBLE INLET  DOUBLE WDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER	X-nth Inc.  San Diego - North 5670 Oberlin Dr.	San Diego, UA 92121 858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  COIL LEAVING AIR TEMPERATURE  MIXED AIR  MIXED AIR TEMPERATURE	X-nth Inc.   San Diego - North 5670 Oberlin Dr.	858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  COIL LEAVING AIR TEMPERATURE	X-nth Inc.   San Diego - North 5670 Oberlin Dr.	858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  COIL LEAVING AIR TEMPERATURE  MIXED AIR  MIXED AIR TEMPERATURE  MAKE UP AIR  NET FREE AREA  OPEN ABOVE CEILING	CONSULTANT  X-nth Inc.  San Diego - North  5670 Oberlin Dr.	858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A.	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  COIL LEAVING AIR TEMPERATURE  MIXED AIR  MIXED AIR TEMPERATURE  MAKE UP AIR  NET FREE AREA	CONSULTANT  X-nth Inc.  San Diego - North  5670 Oberlin Dr.	858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  MIXED AIR  MIXED AIR  MIXED AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR INTAKE  OPPOSED BLADE DAMPER	CONSULTANT  X-nth Inc.  San Diego - North  5670 Oberlin Dr.	858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD OED P.E.	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  COIL LEAVING AIR TEMPERATURE  MIXED AIR  MIXED AIR TEMPERATURE  MAKE UP AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR  OUTSIDE AIR INTAKE  OPPOSED BLADE DAMPER  OPEN END DUCT  PNEUMATIC — ELECTRIC	CONSULTANT  X-nth Inc.  San Diego - North  5670 Oberlin Dr.	San Diego, UA 92121 858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  COIL LEAVING AIR TEMPERATURE  MIXED AIR  MIXED AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR INTAKE  OPOSED BLADE DAMPER  OPEN END DUCT	CONSULTANT  X-nth Inc.  San Diego - North  5670 Oberlin Dr.	858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD OED P.E. RA RAT RE	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  COIL LEAVING AIR TEMPERATURE  MIXED AIR  MIXED AIR  MIXED AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR  OUTSIDE AIR INTAKE  OPPOSED BLADE DAMPER  OPEN END DUCT  PNEUMATIC — ELECTRIC  RETURN AIR TEMPERATURE  REDUCING ELBOW	CONSULTANT  X-nth Inc.  San Diego - North  5670 Oberlin Dr.	858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD OED P.E. RA RAT	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  COIL LEAVING AIR TEMPERATURE  MIXED AIR  MIXED AIR TEMPERATURE  MAKE UP AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR INTAKE  OPPOSED BLADE DAMPER  OPEN END DUCT  PNEUMATIC — ELECTRIC  RETURN AIR TEMPERATURE	X-nth Inc.   San Diego - North 5670 Oberlin Dr.	San Diego, LA 92121 858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD OED P.E. RA RAT RE RLF RV SA	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  COIL LEAVING AIR TEMPERATURE  MIXED AIR  MIXED AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR  OUTSIDE AIR INTAKE  OPPOSED BLADE DAMPER  OPEN END DUCT  PNEUMATIC — ELECTRIC  RETURN AIR TEMPERATURE  REDUCING ELBOW  RELIEF  ROOF VENT  SUPPLY AIR	Lankford/Phelps Consortium LLC 655 West Broadway, Suite 1450 San Diego. CA 92101 619-702-1655 Fax 619-702-1655 Fax 619-702-1655 Fax	858.597.0555   fax 858.597.0565
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD OED P.E. RA RAT RE RLF	CONSTANT VOLUME  DOUBLE WDTH DOUBLE INLET  DOUBLE WDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  MIXED AIR  MIXED AIR  MIXED AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR  OUTSIDE AIR INTAKE  OPPOSED BLADE DAMPER  OPEN END DUCT  PNEUMATIC — ELECTRIC  RETURN AIR TEMPERATURE  REDUCING ELBOW  RELIEF  ROOF VENT	Lankford/Phelps Consortium LLC 655 West Broadway, Suite 1450 San Diego. CA 92101 619-702-1655 Fax 619-702-1655 Fax 619-702-1655 Fax	
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD OED P.E. RA RAT RE RLF RV SA SAT SCR SP	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  MIXED AIR  MIXED AIR TEMPERATURE  MAKE UP AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR INTAKE  OPPOSED BLADE DAMPER  OPEN END DUCT  PNEUMATIC — ELECTRIC  RETURN AIR TEMPERATURE  REDUCING ELBOW  RELIEF  ROOF VENT  SUPPLY AIR SUPPLY AIR  SUPPLY AIR TEMPERATURE  SCREEN  STATIC PRESSURE	Lankford/Phelps Consortium LLC  655 West Broadway, Suite 1450 San Diego. CA 92101 619-702-5655 619-702-1655 Fax 619-702-1655 Fax	
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD OED P.E. RA RAT RE RLF RV SA SAT SCR	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  MIXED AIR  MIXED AIR  MIXED AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR INTAKE  OPPOSED BLADE DAMPER  OPEN END DUCT  PNEUMATIC — ELECTRIC  RETURN AIR TEMPERATURE  REDUCING ELBOW  RELIEF  ROOF VENT  SUPPLY AIR TEMPERATURE	Lankford/Phelps Consortium LLC  655 West Broadway, Suite 1450 San Diego. CA 92101 619-702-5655 619-702-1655 Fax 619-702-1655 Fax	
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD OED P.E. RA RAT RE RLF RV SA SAT SCR SP SWDI SWSI TG	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  MIXED AIR  MIXED AIR TEMPERATURE  MAKE UP AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR  OUTSIDE AIR  OUTSIDE AIR  OUTSIDE AIR INTAKE  OPPOSED BLADE DAMPER  OPEN END DUCT  PNEUMATIC — ELECTRIC  RETURN AIR TEMPERATURE  REDURN AIR TEMPERATURE  REDURN AIR TEMPERATURE  REDURN AIR TEMPERATURE  SOPPLY AIR  SUPPLY AIR  SUPPLY AIR  SUPPLY AIR  SUPPLY AIR  SUPPLY AIR TEMPERATURE  SINGLE WIDTH SINGLE INLET  TRANSFER AIR GRILLE	ARCHITECTS  Lankford/Phelps Consortium LLC  655 West Broadway, Suite 1450 San Diego, CA 92101 619-702-1655 Fax 619-702-1655 Fax	
	CFM CV DWDI DWSI DX EA EAT EP ESP F&B FC FA FPI GE HEGA HEPA LAT MA MAT MAU N.F.A. OAC OA OAI OBD OED P.E. RA RAT RE RLF RV SA SAT SCR SP SWDI SWSI	CONSTANT VOLUME  DOUBLE WIDTH DOUBLE INLET  DOUBLE WIDTH SINGLE INLET  DIRECT EXPANSION  EXHAUST AIR  COIL ENTERING AIR OR EXHAUST AIR TEMPERATURE  ELECTRIC — PNEUMATIC  EXTERNAL STATIC PRESSURE  FACE AND BYPASS  FOWARD CURVE  FREE AREA  FINS PER INCH  GENERAL EXHAUST  HIGH EFFICIENCY GAS ABSORBER AIR FILTER  HIGH EFFICIENCY PARTICULATE AIR FILTER  COIL LEAVING AIR TEMPERATURE  MIXED AIR  MIXED AIR  MIXED AIR  NET FREE AREA  OPEN ABOVE CEILING  OUTSIDE AIR  OUTSIDE AIR  OUTSIDE AIR  OUTSIDE AIR  CUTSIDE AIR TIMAKE  OPPOSED BLADE DAMPER  OPEN END DUCT  PNEUMATIC — ELECTRIC  RETURN AIR  RETURN AIR TEMPERATURE  REDUCING ELBOW  RELIEF  ROOF VENT  SUPPLY AIR  SUPPLY AIR  SUPPLY AIR TEMPERATURE  SINGLE WIDTH SINGLE INLET  SINGLE WIDTH SINGLE INLET	CHITECTS Lankford/Phelps Consortium LLC 655 West Broadway, Suite 1450 San Diego. CA 92101 619-702-1655 Fax 619-702-1655 Fax 619-702-1655 Fax 619-702-1655 Fax	San Diego, JA 92121 858.597.0555   fax 858.597.0565

APR 1 5 2010

PRELIMINARY DRAWINGS PROGRESS DRAWINGS REVIEW DRAWINGS CONSTRUCTION DRAWINGS



LEGEND ABBREVIATIONS GENERAL NOTES TITLE 24 AND SHEET INDEX DRAWN BY: Author PROJECT #: 200725.000

COPYRIGHT (C) FENTRESS ARCHITECTS

LEGEND AND ABBREVIATIONS

WIRING AND CONTROL DIAGRAMS SHEET INDEX

PARTIAL MECHANICAL PIPING FOURTH FLOOR — ZONE 2

MECHANICAL CHILLED WATER PIPING SCHEMATIC

MECHANICAL CHILLED WATER PIPING SCHEMATIC

MECHANICAL HEATING HOT WATER PIPING SCHEMATIC

MECHANICAL FUEL OIL SYSTEM PIPING SCHEMATIC

MECHANICAL AIR HANDLER SECTIONS

MECHANICAL STEAM PIPING SCHEMATIC

VARIABLE REFRIGERANT SYSTEM WIRING

MECHANCIAL AIRFLOW DIAGRAM

MECHANICAL AIRFLOW DIAGRAM

WIRING AND CONTROL DIAGRAMS

WIRING AND CONTROL DIAGRAMS

MECHANICAL DETAILS

MECHANICAL DETAILS

MECHANICAL DETAILS

M4004

M4006

M5001

M5003

M6002

MEZZANINE

SCALE NONE

M0001

SHEET NUMBER