DUCT L	EGEND	DISREGARD THOSE NOT USED ON DRAWING
SINGLE LINE	DOUBLE LINE	DESCRIPTION
		SUPPLY AIR DUCT UP OR SECTION
		RETURN AIR DUCT UP OR SECTION
		EXHAUST AIR DUCT UP OR SECTION
		SUPPLY AIR DUCT DOWN
		RETURN AIR DUCT DOWN
		EXHAUST AIR DUCT DOWN
	$\square \oslash$	EXHAUST STACK ON ROOF
<u>10x6</u>	₹ 10×6₹	DUCT WIDTH × HEIGHT
<u>10x6(L)</u>		UNED DUCT, DIMENSIONS ARE NET OUTSIDE DIMENSIONS
Shur 🛛	amm)	FLEXIBLE DUCT W/VOLUME DAMPER
		TRANSITION
		(RADIUS ELL IS ACCEPTABLE)
		CONICAL 90° TEE
		90° TEE
		45° TEE
		RECIANGULAR IEE
		Y = FITTING
		45" HEAL FITTING RECTANGULAR
		SPIN IN FITTING WITH 45° EXTRACTOR
、 <u> 、</u> 、		IN RECTANGULAR MAIN
<u></u>		ROOM THERMOSTAT
	_	REMOTE ANNUNCIATOR
	_	WYE BRANCH
	_	SIDEWALL GRILLE
	_	FAN POWERED HEPA FILTER
	_	24"x24"SUPPLY AIR DIFFUSER
	_	24"x24" RETURN AIR GRILLE
	_	EXHAUST GRILLE
SD	_	SMOKE DETECTOR
SFD	_	COMBINATION FIRE/SMOKE DAMPER
	_	VAV THERMAFUSER

ABBREVIATIO	DISREGARD THOSE WHICH ARE NOT USED ON DRAWINGS.
ABBREVIATIONS	DESCRIPTION
ABBRE VIATIONS AAV AD AE AFF AFS AG AW BF BG BGD BHD BOD CA CD CDA CDL CFF CTE CW CWS CWR DIWR DIWS DIWS DIWS DIWS DIWS DIWS DIWS DIWS CA CFF CTE CW CWS CWR DIWS DIWS CA CFF FF FF FF FF FF FF FF FF F	DESCRIPTION AUTOMATIC AR VENT ACCESS DOOR. ACID EXHAUST ACID EXHAUST ABOVE FINISHED FLOOR AUTOMATIC FIRE SPRINLER ABOVE GRADE BUD FLANGE AUTOMATIC ACTOR STATE DRAIN LINE COMPENSER WATER SUPPLY COMDENSER WATER SUPPLY COMDENSER WATER SUPPLY COMDENSER WATER SUPPLY COMDENSER WATER SUPPLY DEIONIZED WATER SUPUNATION SUBJERIAL COMPER MAUUAL VOLUMETRIC DAMPER MOTION STATER MAUUAL VOLUMETRIC DAMPER MORMALLY CLOSED NOT IN CONTRACT NOT TO SCALE OUTSIDE AR DOPOSED BLADE DAMPER ON CENTER SUPPLY PROCESS COULING WATER SUPPLY PROCESS COULING
WWD	WASIE WAIER DRAIN

### CONTROLS

- ☑ EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN ELECTRONIC PROGRAMMABLE TIME AND TEMPERATURE CONTROL. PROGRAMMABLE THERMOSTAT SHALL BE CAPABLE OF PROGRAMMING DURING UNOCCUPIED PERIODS AND WEEK-ENDS.
- □ EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN OCCUPANCY SENSOR TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.
- □ EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.
- □ EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING THERMOSTAT SET POINT. DOOR TEMPERATURE IS >  $32^{\circ}$ F).
- □ EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK COOLING THERMOSTAT SET POINT. (NA IF SUMMER DESIGN OUTDOOR TEMPERATURE IS <  $100^{\circ}$ F).
- □ EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA MORE THAN 25,000 SQUARE FEET SHALL BE PROVIDED WITH ISOLATION ZONES. EACH ZONE SHALL: NOT EXCEED 25,000 SQUARE FEET; SHALL BE PROVIDED WITH ISOLATION DEVICES, SUCH AS VALVES OR DAMPERS, THAT ALLOW THE SUPPLY OF HEATING OR COOLING TO BE SETBACK OR SHUT OFF INDEPENDENTLY OF OTHER ISOLATION AREAS; AND SHALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ABOVE.
- ☑ EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE. WHERE USED TO CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55°F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85°F OR HIGHER. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.
- ☑ THERMOSTATS SHALL HAVE NUMERIC SET POINTS IN °F.
- M THERMOSTATS SHALL HAVE ADJUSTABLE SET POINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
- □ HEAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION IS PERMITTED DURING TRANSIENT PERIODS, SUCH AS START-UPS AND FOLLOWING ROOM THERMOSTAT SET POINT ADVANCE, WHEN CONTROLS ARE PROVIDED WHICH USE PREFERENTIAL RATE CONTROL, INTELLIGENT RECOVERY, STAGING, RAMPING, OR SIMILAR CONTROL MECHANISMS DESIGNED TO PRECLUDE THE UNNECESSARY OPERATION OF SUPPLEMENTARY HEATING DURING THE RECOVERY PERIOD. SUPPLEMENTARY HEATER OPERATION IS ALSO PERMITTED DURING DEFROST.

DUCTWORK SPECIFICAT	ION
SYSTEM MATERIA	AL
SUPPLY AIR DUCTWORK (ALUMAFLEX)	LOW PRESSURE HVAC DUCTWORK IS PRE POSITIVE PRESS. 10"-WATER COLUMN. CONSTRUCTED OF CORROSIVE RESISTANT
FLEXIBLE DUCTWORK	WIRE FLEX DUCTWORK IS SPIRALLY WOU IN A CONTINUOUS ACOUSTICAL LINER CO FIBERGLASS BLANKET, FIBERGLASS SCRII VAPOR BARRIER.
SPIRAL DUCTWORK	MEDIUM PRESSURE HVAC DUCTWORK IS IS CONSTRUCTED OF PRIME G-90 GALV/ PRESS. 10"-WATER COLUMN. DUCT SIZ 16-26 24 GAUG, 28-36 22 GA.
DUCT CONNECTION SYSTEM S&DRIVE, DUCTMATE, TDF, TDC	A. FACTORY FABRICATED COMPONENTS. B. ASSEMBLE WITH GASKET TAPE.
UL	1. FLAME SPREADNO MORE T 2. FUEL CONTRIBUTEDNO MORE T 3. SMOKE DEVELOPEDNO MORE T
DUCT SEALER (ALUMAFLEX)	SCREWS AND TAPE
RIGID DUCT	GASCKET TAPE & DP1018 DUCT SEALER

### CALGREEN GENERAL NOTES:

- 1. THE DUCTWORK MATERIALS SHALL COMPLY WITH CMC SECTION 602.5.
- 2. DUCT HANGERS AND SUPPORTS ARE PER SMACNA.
- 3. THE FACTORY MADE AIR DUCT WILL BE CLASS 1 OR 0 PER LOCAL CODE.
- 4. THE LINING APPLIED WITHIN DUCTS ARE MOLD, HUMIDITY AND EROSION RESISTANT SURFACE TO MEET THE REQUIREMENTS OF LOCAL CODE.
- 5. THE FLAME SPREAD INDEX WITHIN DUCTS/PLENUMS HAS A FLAME SPREAD INDEX OF ZERO (0) AND SMOKE DEVELOPED RATINGS ARE LESS THAN 50.
- 6. INSULATION MATERIAL APPLIED TO THE EXTERIOR OF THE DUCTS LOCATED IN THE BUILDING HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATINGS NOT LESS THAN 50.
- 7. ALL DUCTWORK SIZES SHOWN ON PLAN ARE CLEAR INSIDE DIMENSIONS.
- 8. BUILDING SHALL MEET OR EXCEED THE PROVISIONS OF THE CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTION 1203 (VENTILATION)
- 9. MECHANICAL DESIGN TO MEET THE MINIMUM REQUIREMENTS OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6, SECTION 121 AND DIVISION 1, CHAPTER 4 OF THE CCR, TITLE 8.
- 10. HVAC AND REFRIGERANT EQUIPMENT SHALL NOT CONTAIN CFC'S, HALONS, AND HCFC'S PER CGBSC SECTION 5.508.1., A5.508.1.3, and 4.
- 11. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO REDUCE THE AMOUNT OF DUST AND DERBIES WHICH MAY COLLECT IN THE SYSTEM.
- 12. HVAC SYSTEM SHALL NOT BE RUNNING DURING CONSTRUCTION.

PRE-INSULATED ALUM. MAX MN. ALUMAFLEX IS STANT ALUMINUM WOUND WIRE ENCAPSULATED ER COVERED WITH A S SCRIM. AND AN EXTERIOR K IS SPIRAL SEAM PIPE SPIRAL

GALVANIZED MAX POSITIVE SIZES 4-14 ARE 26 GAUGE,

ORE THAN 25 ORE THAN 50 DRE THAN 50

EALER (WATER BASED)

### MANDATORY MEASURES

### EQUIPMENT AND SYSTEMS EFFICIENCY

- M ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE. INCLUDED ARE ROOM AIR CONDITIONERS, CENTRAL AIR CONDITIONING HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REQUIREMENTS FOR CENTRAL AIR CONDITIONING HEAT PUMPS WITH COOLING CAPACITY OF 135,000 BTU/HR OR MORE APPLY TO HEATING PERFORMANCE BUT NOT COOLING PERFORMANCE), OTHER CENTRAL AIR CONDITIONERS WITH A COOLING CAPACITY LESS THAN 135,000 BTU/HR, FAN TYPE CENTRAL FURNACES WITH INPUT RATE LESS THAN 400,000 BTU/HR, BOILERS WALL FURNACES, FLOOR FURNACES, ROOM HEATERS, UNIT HEATERS, AND DUCT FURNACES SHALL HAVE BEEN CERTIFIED TO THE CALIFORNIA ENERGY COMMISSION BY ITS MANUFACTURER TO COMPLY WITH THE APPLIANCE EFFICIENCY STANDARDS.
- $\nabla$ THE FOLLOWING SPACE CONDITIONING EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 112 OF THE ENERGY EFFICIENCY STANDARDS: ALL AIR CONDITIONERS, HEAT PUMPS AND CONDENSING UNITS > 135,000 BTU/HR; ALL WATER CHILLERS; ALL GAS-FIRED BOILERS > 300,000 BTU/HR; ALL OIL-FIRED BOILERS > 225,000 BTU/HR: AND ALL WARM AIR FURNACES AND COMBINATION WARM AIR FURNACES/AIR-CONDITIONING UNITS > 225,000 BTU/HR. FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.
- D PIPING, EXCEPT THESE CONVEYING FLUIDS AT TEMPERATURES BETWEEN 60°F AND 105°F, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS SECTION 123.
- AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN CHAPTER 10 OF THE UNIFORM MECHANICAL CODE.

### VENTILATION

- CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR М DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.
- GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
- □ ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.
- AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS М SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS.
- OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS.

### **GENERAL NOTES:**

- 1. THE DUCTWORK MATERIALS SHALL COMPLY WITH CMC SECTION 602.5.
- 2. DUCT HANGERS AND SUPPORTS ARE PER SMACNA.
- 3. THE FACTORY MADE AIR DUCT WILL BE CLASS 1 OR 0 PER LOCAL CODE.
- 4. THE LINING APPLIED WITHIN DUCTS ARE MOLD, HUMIDITY AND EROSION RESISTANT SURFACE TO MEET THE REQUIREMENTS OF LOCAL CODE.
- 5. THE FLAME SPREAD INDEX WITHIN DUCTS/PLENUMS HAS A FLAME SPREAD INDEX OF ZERO (0) AND SMOKE DEVELOPED RATINGS ARE LESS THAN 50.
- 6. INSULATION MATERIAL APPLIED TO THE EXTERIOR OF THE DUCTS LOCATED IN THE BUILDING HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATINGS NOT LESS THAN 50.
- 7. ALL DUCTWORK SIZES SHOWN ON PLAN ARE CLEAR INSIDE DIMENSIONS.

# MECHANICAL DRAWING INDEX

SHEET	DRAWING
M-0	MECHANICAL COVER SHEET
M-1	MECHANICAL SCHEDULES
M-2.1D	MECHANICAL 1st FLOOR DEMO PLAN
M-2.2D	MECHANICAL 2nd FLOOR DEMO PLAN
M-2.3D	MECHANICAL 3rd FLOOR DEMO PLAN
M-3D	MECHANICAL ROOF DEMO PLAN
M-2.1	MECHANICAL 1st FLOOR NEW PLAN
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M-2.3	MECHANICAL 3rd FLOOR NEW PLAN
M-3	MECHANICAL ROOF NEW PLAN
M-4	MECHANICAL DETAILS
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San Carlos, CA 94070

# FLOORS 1, 2, 3, 4 **BUILDING 2** 2 CIRCLE STAR WAY

San Carlos, CA 94070

### MECHANICAL COVER SHEET

### SCALE: NTS

ISSUE:	DATE:	DESCRIPTION:
	02.18.14	ISSUE FOR PERMIT
DRAWN	BY:	A.P.
REVIEW	/ED BY:	B.P.
APPRO	VED BY:	B.P.
SVM PR	OJECT NO.:	C14-3346





SPLIT SYSTEM I	FAN COIL SCHEDULE	E		SPLIT SYSTEM CONDENSING UNIT SCHEDULE
SYMBOL MAKE MODEL	LOCATION SUPPLY FAN CA	APACITY(MBH) ELEC. DATA OPER. VIE WT. ISC OTAL SENS. HP VOLT PH Hz MCA (LBS.) (IN	3. D. REMARKS I)	SYMBOL     MAKE     MODEL     CAPACITY (MBH)     RATED     ELEC.     DATA     OPER.     VIB.       COOLING     EFF.     VOLT     PH     Hz     MCA     OPER.     VIB.     ISO.       TOTAL     SENS.     VOLT     PH     Hz     MCA     OPER.     VIB.     ISO.
FC 1-1 TRANE TAM7B0C60H51SA	UPS-1 135 1990 0.5 5	56.4     49.5     1.0     208/ 230     1     60     7.0     163     1"	$\langle 1 \rangle \langle 2 \rangle \langle 3 \rangle$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

 $\langle 1 \rangle$  CEILING HUNG WITH ISOLATION

 $\langle 2 \rangle$  provide condensate pump.

 $\langle 3 \rangle$  electrical contractor to provide separate power for condensate pump.

	VAR	RIABLE REFR	IGERA	NT (VRF	F) UNIT	SCH	HEDU	LE					VRF	FAN COIL	SCHEDU	_E										
SYMBOL	MAKE	MODEL	CAPA (ME	CITY 3H)	REFR.	[[	ELEC. D	ATA		OPER. WT.	REMARKS	SYMBOL	MAKE	MODEL		SUPPL`	/ FAN C	APACITY(N	ИВН)			ELEC	. DA <sup>-</sup>	ΓΑ	OPER. WT.	RFMARKS
STMDOL		MODEL	COOLING	HEATING	TYPE	VOLT	PH Hz	MCA	MOP	(LBS.)		STWIDOL		WODEL		CFM	ESP ( (IN) 1	COOL. CO TOTAL SE	DOL. H ENS.	HEAT.	WATT	VOLT	PHF	z MCA	(LBS.)	)
	LG	ARUN240DTE4	240.0	270.0	R410A					1168	$\left< 1 \right> 2 \left< 3 \right>$	FC 2-1	LG	ARNU763B8A2	IDF 2nd FLOOR	2400	0.5	76.4 5	57.3	0	800	208/ 230	1 6	0 4.5	192	$\langle 1 \rangle \langle 2 \rangle$
VRF 1	LG	(a)ARUN096DTE4	_	-		460	3 60	23.2	35	540		$\overline{\left(\begin{array}{c} FC\\ 3-1 \end{array}\right)}$	LG	ARNU763B8A2	IDF 3rd FLOOR	2400	0.5	76.4 5	57.3	0	800	208/ 230	1 6	0 4.5	192	$\langle 1 \rangle \langle 2 \rangle$
VRF 2	LG	(b)ARUN144DTE4	_	_		460	3 60	31.6	40	628																

<u>NOTES:</u>

 $\langle 1 \rangle$  DISCONNECT BY E.C.

 $\langle 2 \rangle$  COPPER/ALUMINUM COILS

 $\langle 3 \rangle$ UNIT REQUIRES (2) ELEC. CONNECTIONS

DX IN-ROW COOLING UNITS SCHEDULE					AIR COOLED CONDENSING UNIT SCHEDULE										
SYMBOL	MAKE	MODEI	SUPPLY	CAPACITY (MBH)	ELEC. DATA	OPER. WT. REMARKS	SYMBOL	MAKE MO		CAPACITY (M	BH) ELE	C. DATA	MCA	OPER. VI WT. IS	B. O. REMARKS
			CFM (IN)	TOTAL SENS.	VOLT PH Hz MCA HP	(LBS.)	STMDOL			TOTAL SEN	IS. VOLT	PH Hz		(LBS.) (I	Ň)
(IRC) 1	LEIBERT	CR035RA1A7H313	SERVER RM. 3,260 0	112.3 90.7	460 3 60 24.2 1.4	805	CU 1	LEIBERT TCSV	60K-A	112.3 90.	7 460	3 60	3.5	470 R P/	C ROOF MOUNTED ON SLEEPERS; AD LOW AMBIENT CONTROLS
IRC 2	LEIBERT	CR035RA1A7H313	SERVER RM. 3,260 0	112.3 90.7	460 3 60 24.2 1.4	805	CU 2	LEIBERT TCSV	60K-A	112.3 90.	7 460	3 60	3.5	470 R P/	C ROOF MOUNTED ON SLEEPERS; AD LOW AMBIENT CONTROLS
$\langle \frac{\text{IRC}}{3} \rangle$	LEIBERT	CR035RA1A7H313	SERVER RM. 3,260 0	112.3 90.7	460 3 60 24.2 1.4	805	$\begin{pmatrix} CU \\ \hline 3 \end{pmatrix}$	LEIBERT TCSV	60K-A	112.3 90.	7 460	3 60	3.5	470 R P/	C ROOF MOUNTED ON SLEEPERS; AD LOW AMBIENT CONTROLS
(IRC) 4	LEIBERT	CR035RA1A7H313	SERVER RM. 3,260 0	112.3 90.7	460 3 60 24.2 1.4	805	CU 4	LEIBERT TCSV	60K-A	112.3 90.	7 460	3 60	3.5	470 R P/	C ROOF MOUNTED ON SLEEPERS; AD LOW AMBIENT CONTROLS

 $\langle 1 \rangle$  mount on roof sleepers by G.C.  $\langle 2 \rangle$  LOW AMBIENT CONTROLS

	DIFFUSER & GRILLE SCHEDULE								
QTY	SYMBOL	MAKE	MODEL	BORDER TYPE	REMARKS				
-	SD-1	TITUS	PSS	3 (LAY-IN) FULL FACE					
-	SD-2	TITUS	PSS	1 (SURFACE MOUNT)	—				
-	SW-1	TITUS	300RS	1 (SURFACE MOUNT)	_				
-	LS-1	TITUS	ML-39	22	TAPE-IN SLOT DIFF, 2 SLOT, INSULATED PLENUM W/ 8" COLLAR				
-	LS-2	TITUS	ML-39	2A	2 SLOT, INSULATED PLENUM W/ 8" COLLAR				
-	RG-1	TITUS	PAR	3	22"x22" NECK, OPEN TO PLENUM				
_	RG-2	TITUS	PAR	3	ROUND NECK W/ FLEX DUCT ATTENUATOR				
_	RG-3	TITUS	350RL	1 (SURFACE MOUNT)					



FIRE/SMOKE DAMPER SCHEDULE									
	MANUFACTURER MODEL VOLTAGE REMARKS								
	RUSKIN	FSD-36	120V	NO DETECTOR					
<b>T</b> •									

THE INSTALLATION MANUAL FOR THE COMBINATION FIRE/SMOKE DAMPER WILL BE AVAILABLE IF REQUESTED BY CITY INSPECTOR AT THE JOBSITE.



# SOFTBANK 2 Circle Star San Carlos, CA 94070

# FLOORS 1, 2, 3, 4 **BUILDING 2** 2 CIRCLE STAR WAY San Carlos, CA 94070

## MECHANICAL SCHEDULES

### SCALE: NTS

ISSUE:	DATE:	DESCRIPTION:
	02.18.14	ISSUE FOR PERMIT
DRAWN	BY:	A.P.
REVIEW	/ED BY:	B.P.
APPRO	VED BY:	B.P.
SVM PR	OJECT NO.:	C14-3346







- RETURN AIR OPENINGS.
- 3. REMOVE ALL PNEUMATIC THERMOSTATS AND COIL ABOVE CEILING PRIOR TO DEMO.





M-2.1D







M-2.2D



 $\left<1\right>$  SVM to remove and properly dispose of refrigerant in all (E) SPLIT SYSTEM A/C UNITS. DROP UNITS TO FLOOR FOR REMOVAL





M-2.3D







M-3D



N	VAV BOX	SCH	HEDUI	_E —	1st F	LOO	R
<u>⟨C0</u> (1−10)	"TITUS" #PESV-3000 II	8"ø	-	670	_	_	NEW
$\begin{pmatrix} CO \\ 1-11 \end{pmatrix}$	"TITUS" #PESV-3000 II	10 <b>"</b> ø	-	825	_	_	NEW
	"TITUS" #PESV-3000 II	10 <b>"</b> ø	-	1075	-	-	NEW
	"TITUS" #PESV-3000 II	6"ø	-	320	-	-	NEW
<u>⟨C0</u> 1−15	"TITUS" #PESV-3000 II	6"ø	_	280	_	_	NEW
C0 1-16	"TITUS" #PESV-3000 II	10 <b>"</b> ø	_	840	_	_	NEW
	"ACCO" VVR-12	12 <b>"</b> ø	_	740	_	_	NEW
	"ACCO" VVR-14	14"ø	_	1500	_	_	NEW

v				_ <b>L</b> _	1001		<b>`</b>
CM/DOI	MANUF'R	INLET	CFM	RANGE	CDM		DEMARKS
STMBUL	& MODEL NO.	SIZE	HEATING	COOLING	GFM	VALVE	REMARKS
RH 1-15	"TITUS" #PESV-3000	10 <b>"</b> ø	350	870	1.75	2 WAY	NEW
(RH) (1-16)	"TITUS" #PESV-3000	10 <b>"</b> ø	355	885	1.5	2 WAY	NEW
(RH) (1−17)	"TITUS" #PESV-3000	10 <b>"</b> ø	395	980	1.75	2 WAY	NEW
	"TITUS" #PESV-3000	8"ø	230	575	2.0	2 WAY	NEW
(RH) (1-18)	"TITUS" #PESV-3000	8"ø	230	575	2.0	2 WAY	EXISTING CO-1-12 W NEW RH CO
$\left< \begin{array}{c} CO \\ 1-1 \end{array} \right>$	"TITUS" #PESV-3000	10 <b>"</b> ø	_	915	-	Ι	NEW
$\begin{pmatrix} co \\ 1-2 \end{pmatrix}$	"TITUS" #PESV-3000	12 <b>"</b> ø	_	1265	-	Ι	NEW
$\begin{pmatrix} co \\ 1-3 \end{pmatrix}$	"TITUS" #PESV-3000	10 <b>"</b> ø	_	895	_	-	NEW
	"TITUS" #PESV-3000	6"ø	_	250	_	-	NEW
$\begin{pmatrix} co \\ 1-5 \end{pmatrix}$	"TITUS" #PESV-3000	8"ø	_	440	_	-	NEW
$\begin{pmatrix} CO \\ 1-6 \end{pmatrix}$	"TITUS" #PESV-3000	8"ø	_	525	_	-	NEW
$\begin{pmatrix} co \\ 1-7 \end{pmatrix}$	"TITUS" #PESV-3000	6"ø	_	300	-	Ι	NEW
C0 1-8	"TITUS" #PESV-3000	10 <b>"</b> ø	_	915	_	_	NEW
	"TITUS" #PESV-3000	6"ø	_	355	_	_	NEW

- 1. REMOVE ALL (E) T-BAR SUPPLY AND RETURN GRILLES. ALL T-BAR

![](_page_6_Picture_15.jpeg)

![](_page_6_Picture_16.jpeg)

M-2.1

![](_page_7_Figure_0.jpeg)

![](_page_7_Picture_7.jpeg)

![](_page_7_Picture_8.jpeg)

SHEET NO.

M-2.2

![](_page_8_Figure_0.jpeg)

![](_page_8_Picture_7.jpeg)

![](_page_8_Picture_8.jpeg)

M-2.3

![](_page_9_Figure_0.jpeg)

![](_page_9_Picture_2.jpeg)

ISSUE:	DATE:	DESCRIPTION:
	02.18.14	ISSUE FOR PERMIT
DRAWN	BY:	A.P.
REVIEW	/ED BY:	B.P.
APPRO	VED BY:	B.P.
SVM PR	OJECT NO.:	C14-3346

![](_page_9_Picture_4.jpeg)

![](_page_9_Picture_5.jpeg)

![](_page_10_Figure_0.jpeg)

![](_page_10_Figure_2.jpeg)

1. PROVIDE SWAY & SEISMIC BRACING PER SMACNA SEISMIC GUIDELINES. 2. SEE SMSCNA TABLE 5-1 FOR SPACING GUIEDELINES.

S∨M-D92

DUCT HANGING DETAIL / NTS

MIN	IIMUM F	IANGER SIZ	ZES FOR	ROUND DUCT
DIA.	MAXIMUM SPACING	WIRE DIA.	ROD	STRAP
10" DN	12'	ONE 12 GA	1/4"	1" × 22 GA
11"-18"	12'	TWO 12 GA OR ONE 8 GA	1/4"	1" × 22 GA
19"-24"	12'	TWO 10 GA	1/4"	1" × 22 GA
25"-36"	12'	TWO 8 GA	1/4"	1" × 20 GA
37"-50"	12'		TWO 3/8"	TWO 1" × 20 GA
51"-60"	12'		TWO 3/8"	TWO 1" × 18 GA
61"-84"	12'		TWO 3/8"	TWO 1" × 16 GA
MINIM	UM HAN	NGER SIZES	S FOR AL	UMA FLEX DUCT
4"-24"	6'	ONE 12 GA	1/4"	1" × 22 GA

<u>NOTES:</u> 1. STRAPS ARE GALVANIZED STEEL: RODS ARE UNCOATED OR GALVANIZED STEEL; WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATIVES.

2. TABLES ALLOWS FOR CONVENTIONAL WALL THICKNESS, AND JOINTS SYSTEMS PLUS ONE LB/SF OF INSULATION WEIGHT IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.

3. DESIGNERS: FOR INDUSTRIAL GRADE SUPPORTS, INCLUDING SADDLES, SINGLE POINT TRAPEZE LOADS. LONGER SPANS AND FLANGED JOINT, SEE SMACNA'S ROUND INDUSTRIAL DUCT CONSTRUCTION STANDARDS.

$\bigcap$	DUCT	HANGER	SIZE	TABLE	
	NTS				SVM-D121

![](_page_10_Picture_11.jpeg)

**BUILDING 2** 2 CIRCLE STAR WAY San Carlos, CA 94070

MECHANICAL DETAILS

SCALE: AS NOTED

ISSUE:	DATE:	DESCRIPTION:
	02.18.14	ISSUE FOR PERMIT
DRAWN	BY:	A.P.
REVIEW	/ED BY:	B.P.
APPRO	VED BY:	B.P.
SVM PR	OJECT NO.:	C14-3346

![](_page_10_Picture_16.jpeg)

![](_page_10_Picture_17.jpeg)

Project Name: SOFT BANK CS2		D	(rage ate: 02/12/	IVIECH           14         Climate Zone:           4         4
Project Address: 2 CIRCLE STAR WAY, SAN CA	RLOS, CA	н 		Conditioned F Area: - SQ.
General Information Building Type:	esidential: High-Rise Reside	ential Hotel/Mo	tel Guest R	oom
□ Schools (Public School) □ Rela	cable Public School Bldg.	Conditioned Spaces		ioned (file
Phase of Construction:	New Concsruction 🔲 Ac	ldition		Alteration
Approach of Compliance:	Component 🛛 Ov	erall Envelope TDV Er	nergy 🗖	Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in D	begrees: 270	I		
HVAC SYSTEM DETAILS		FIELD INSPEC'	TION EN Criteria or l	ERGY CHECK
Equipment <sup>2</sup>	Inspection Criteria	Special Feature <sup>1</sup>	Pass	Fail - Describe Ro
(i.e. AC-1, RTU-1, HP-1)	FC/CU-1-1			
Equipment Type <sup>4</sup> :	SPLIT COOLING			
Max Allowed Heating Capacity	SEE SCHEDULE M-1			
Minimum Heating Efficiency Max Alloved Cooling Capacity	PER T-24 SECTION 112 SEE SCHEDULE M-1			
Cooling Efficiency	PER T-24 SECTION 112			
Duct Location/ K-Value Duct Leakage Testing - If Yes, a	κ-4.2 Indoor/ R-8.0 Outdoor NO			
MECH-4A must be submitted Econimizer	NO			
Thermostat	YES			
ran Comrol	I ES	□ FIELD INSPEC'	TION EN	ERGY CHECKI
Equipment <sup>2</sup>	Inspection Criteria	Special Feature <sup>1</sup>	Pass	Fail - Describe Ro
(i.e. AC-1, RTU-1, HP-1)	FC/VRF-2-1,3-1			
Equipment Type <sup>4</sup> :	VRF SYSTEM			
Max Allowed Heating Capacity	SEE SCHEDULE M-1			
Minimum Heating Efficiency Max Alloved Cooling Capacity	PER T-24 SECTION 112 SEE SCHEDULE M-1			
Cooling Efficiency	PER T-24 SECTION 112			
Duct Leakage Testing - If Yes, a	NO			
Economizer	NO			
Thermostat	YES			
CERTIFICATE OF COM	PLIANCE and			
CERTIFICATE OF COMI FIELD INSPECTION ENH Project Name:	PLIANCE and ERGY CHECKLIST	Date	(Page )	2 of 5) MECH
CERTIFICATE OF COM FIELD INSPECTION ENH Project Name: SOFT BANK CS2	PLIANCE and ERGY CHECKLIST	Date	(Page :	2 of 5) MECH 02/12/14
CERTIFICATE OF COMI FIELD INSPECTION ENH Project Name: SOFT BANK CS2 SPECIAL FEATURES	PLIANCE and ERGY CHECKLIST INSPECTION CHECK	Date	(Page )	2 of 5) MECH 02/12/14
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Project Name: SOFT BANK CS2								Date:	02/12	2/14	
Required Acceptance Test	s										
Designer:											
This form is to be used by th applicable boxes by all acce equipment description and r the test. Since this form will	e desig eptance iumber be par	ner and atta tests that ap of systems. I t of the plans	ched to the pla ply and list al The NA numbe s, completion a	ans. Listed be l equipment th er designates of this section	low are all ac hat requires a the Section in will allow the	ceptance tests n acceptance t the Appendix o responsible p	for mechanic est. If all equi of the Nonres arty to budge	al systems. T ipment of a c idential Refe t for the scop	The designer is vertain type req rence Appendi ve of work app	required to ch quires a test, lis ices manual the ropriately.	eck the st the at describes
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requiring testing, person pe conductesd. The folloving ci building department that ce Title 24 part 6. The buildi	rformin hecked rtifies <sub>I</sub> ng ins	ng the test (E. -off forms are plans, specifi pector must	xample: HVA( e required for cations, install receive the p	C installer, TA ALL newly i lation certific property fille	AB contractor nstalled equip ates, and oper d out and sig	, controls cont ment. In addit rating and mai gned forms be	ractor, PE in ion a Certifica intenance info fore the buil	charge of pr ate of Accept rmation mee ding can re	oject) and wha tance forms sh et the requirem ceive final oc	at Acceptance i all be submitte eent of §10-10 ccupancy.	test must be od to the 03(b) and
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2008 Nonresidential Compliance Forms

March 2010

CERTIFICATE OF (	COM	PLIANCE	and <b>FIELD</b>	INSPEC	FION ENER	GY CHECKLIST	(Page 4 of 5)	MECH-1-C
Project Name: SOFT BANK CS2						Date:	02/12/14	
Test Description		MECH 12A	MECH 12A	MECH 14A	MECH 15A			
Test Description	<u> </u>	Ecult	MECH-ISA	Distributed	Thormal Enormy			
Equipment Requiering Testing	# of units	Detection & Diagnostics for DX Units	Detection & Diagnostics for Air & Zone	Energy Storage DX AC Systems	Storage (TES) Systems	Test P	Performed By:	
J/A						INSTALLING CONTRACTOR		
						INSTALLING CONTRACTOR		
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### 2008 Nonresidential Compliance Forms

<ul> <li>opject Name: SOFT BANK CS2</li> <li>ocumentation Author's Declaration Statement</li> <li>I certify that this Certificate of Compliance documentation is accurate: ALEX POLISSKY</li> <li>ALEX POLISSKY</li> <li>SILICON VALLEY MECHANICAL, Inc.</li> <li>Idress:</li> <li>2087 RINGWOOD AVE.,</li> <li>ty/State/Zip</li> <li>SAN JOSE, CA 95131</li> <li>rincipal Mechanical Designer's Declaration Statement</li> <li>I am eligible under Division 3 of the California Business and Profedersign.</li> <li>This Certificate of Compliance identifies the mechanical features a Title 24, Parts 1 and 6 of the California Code of Regulations.</li> <li>The design features represented on this Certificate of Compliance</li> </ul>	Date:       02/12/14         irate and complete.       Signature:         Date:       If Applicable         CAE #       N/A         CEPE #       Phone:         Phone:       408-943-0380         and performance specifications required for compliance with
ocumentation Author's Declaration Statement         • I certify that this Certificate of Compliance documentation is accurate.         ame:       ALEX POLISSKY         ampany:       SILICON VALLEY MECHANICAL, Inc.         Idress:       2087 RINGWOOD AVE.,         ty/State/Zip       SAN JOSE, CA 95131         rincipal Mechanical Designer's Declaration Statement         • I am eligible under Division 3 of the California Business and Profedesign.         • This Certificate of Compliance identifies the mechanical features a Title 24, Parts 1 and 6 of the California Code of Regulations.         • The design features represented on this Certificate of Compliance	rate and complete. Signature: Date: If Applicable CAE # N/A CEPE # Phone: 408-943-0380  nt essions Code to accept responsibility for the mechanical and performance specifications required for compliance with
<ul> <li>I certify that this Certificate of Compliance documentation is accurate.</li> <li>ALEX POLISSKY</li> <li>SILICON VALLEY MECHANICAL, Inc.</li> <li>Idress: 2087 RINGWOOD AVE.,</li> <li>ty/State/Zip SAN JOSE, CA 95131</li> <li>rincipal Mechanical Designer's Declaration Statement</li> <li>I am eligible under Division 3 of the California Business and Profedesign.</li> <li>This Certificate of Compliance identifies the mechanical features a Title 24, Parts 1 and 6 of the California Code of Regulations.</li> <li>The design features represented on this Certificate of Compliance identificate of Compliance identificate of Compliance identificate of Compliance</li> </ul>	Trate and complete.  Signature:  Date:  If Applicable CAE # N/A CEPE #  Phone: 408-943-0380
<ul> <li>ame: ALEX POLISSKY</li> <li>pmpany: SILICON VALLEY MECHANICAL, Inc.</li> <li>idress: 2087 RINGWOOD AVE.,</li> <li>ty/State/Zip SAN JOSE, CA 95131</li> <li>rincipal Mechanical Designer's Declaration Statement</li> <li>I am eligible under Division 3 of the California Business and Profedesign.</li> <li>This Certificate of Compliance identifies the mechanical features a Title 24, Parts 1 and 6 of the California Code of Regulations.</li> <li>The design features represented on this Certificate of Compliance identificate of Compliance</li> </ul>	Signature:       Date:         If Applicable       CAE # N/A         CEPE #       Phone: 408-943-0380 <b>nt</b> essions Code to accept responsibility for the mechanical         and performance specifications required for compliance with
<ul> <li>SILICON VALLEY MECHANICAL, Inc.</li> <li>idress: 2087 RINGWOOD AVE.,</li> <li>ty/State/Zip SAN JOSE, CA 95131</li> <li>rincipal Mechanical Designer's Declaration Statement</li> <li>I am eligible under Division 3 of the California Business and Profesign.</li> <li>This Certificate of Compliance identifies the mechanical features a Title 24, Parts 1 and 6 of the California Code of Regulations.</li> <li>The design features represented on this Certificate of Compliance identificate of Compliance</li> </ul>	Date: If Applicable CAE # N/A CEPE # Phone: 408-943-0380 <b>At</b> essions Code to accept responsibility for the mechanical and performance specifications required for compliance with
<ul> <li><sup>1dress:</sup> 2087 RINGWOOD AVE.,</li> <li><sup>ty/State/Zip</sup> SAN JOSE, CA 95131</li> <li><b>rincipal Mechanical Designer's Declaration Statemen</b></li> <li>I am eligible under Division 3 of the California Business and Profedesign.</li> <li>This Certificate of Compliance identifies the mechanical features a Title 24, Parts 1 and 6 of the California Code of Regulations.</li> <li>The design features represented on this Certificate of Compliance identificate identificate of Compliance identificate identificat</li></ul>	If Applicable CAE # N/A CEPE # Phone: 408-943-0380 <b>At</b> essions Code to accept responsibility for the mechanical and performance specifications required for compliance with
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design on the other applicable compliance forms, worksheets, calc	are consistent with the information provided to document thi ulations, plans and specifications submitted to the
enforcement agency for approval with this building permit applica	tion.
ALEX POLISSKY	e:
SILICON VALLEY MECHANICAL, I	nc. Date:
ddress: 2087 RINGWOOD AVE.,	License # 729770
ty/State/Zip SAN JOSE, CA 95131	Phone: 408-943-0380
andatory Measures	Maasuras
ECHANICAL COMPLIANCE FORMS & WORKSHEE	TS (check box if worksheet is included)
or detailed instructions on the use of this and all Energy Efficiency Sta	andards compliance forms, refer to the 2008 Nonresidentia
MECH-1C Certificate of Compliance. Required on plans for	or all submittals.
MECH-2C Mechanical Equipment Summary is required or	n plans for all submittals.
MECH-3C         Mechanical Ventilation and Reheat is required	for all submittals with mechanical ventilation.
MECH-4C         Fan Power Consumption is required when for a	ll prescriptive submittals.
☐ MECH-4C Fan Power Consumption is required when for a	ll prescriptive submittals.
ALL EXISTING E	EQUIPMENT IS
PREVIOUSLY	COMPLIED

March 2010

				DATE	(1 age 2 01 5)	
SOFT BANK CS2				02/10/1	2	
		V	WATER <sup>2</sup> SIDE SYS	TEMS:Chillers, 2	Towers, Boilers, Hydroni	c Loops
Item or System Tags		N/A				
(i.e., AC-1, RTU-1, HP-1, CT-1, etc) <sup>1</sup>						
No. of Systems						
			Indicate Page Rej	ference on the Pla	ns or Specification <sup>2</sup>	
MANDATORY MEASURES	T-24 Sections					
Equipment Efficiency	112(a)					
Pipe Insulation	123					
PRESCRIPTIVE MEASURES						
Cooling Tower Fan Controls	144(a & b)					
Cooling Tower Flow Controls	144(h)					
Variable Flow System Design	144(h)					
Chiller and Boiler Isolation	144(j)					
CHW and HHW Reset Controls	144(j)					
WLHP Isolation Valves	144(j)					
VSD on CHW, CW & WLPH Pumps >5HP	144(j)					
DP Sensor Location	144(j)					

### MECHANICAL VENTILATION AND REHEAT MECH-3-C PROJECT NAME: SOFT BANK CS2 02/12/14 MECHANICAL VENTILATION §121(b)2 **REHEAT LIMITATION** §144(d) AREA BASIS OCCUPANCY BASIS VAV Minimum A B C D E F G H I J K L M N Zone/<br/>SystemCFM<br/>(ft²)Min.<br/>CFM<br/>(ft²)Min.<br/>CFM by<br/>B x CCFM<br/>PeopleMin.<br/>CFM<br/>per<br/>PersonMin.<br/>CFM by<br/>CFM by<br/>CFM by<br/>CFM by<br/>CFM by<br/>CFM by<br/>Occupant<br/>E x FMin.<br/>Nax of<br/>Dor GKKLMNSystem(ft²)CFM<br/>(ft²)Min.<br/>B x CCFM<br/>PeopleCFM<br/>Per<br/>PersonMin.<br/>CFM by<br/>CFM by<br/>CFM by<br/>Occupant<br/>E x FREQ'D<br/>Max of<br/>Dor GDesign<br/>Cfmmax of<br/>Supply<br/>Cfmmax of<br/>Columns<br/>Max of<br/>cfm/ft²Design<br/>Max of<br/>Supply<br/>Supplymax of<br/>B x 0.4Design<br/>Max of<br/>Columns<br/>H, J, K,<br/>SupplyTransfer<br/>AirFC/URF-2-11700.1525.5215303030---------FC/VRF-3-11870.152821530303030---------FC/VRF-3-11870.152821530303030--------- FC/VRF-3-1 187 0.15 28 2 15 30 30 30 Image: Image of the state of the 15 15 15 15 15 15 15 15 15 Column I Total design Ventilation Air Totals Minimum ventilation rate per Section §121, Table 121-A. Based on fixed seat or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating. Required Ventilation Air (REQ'D V.A.) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column D or G). $\frac{E}{T}$ Must be greater than or equal to H, or use Transfer Air (column N) to make up the difference. Design fan supply cfm (Fan CFM) x 50%; or the design zone outdoor airflow rate per §121. Condition area ( $ft^2$ ) x 0.4 cfm.ft<sup>2</sup>; or Maximum of Columns H, J, K, or 300 cfm This must be less than or equal to Column L and greater than or equal to the sum of Columns H plus N. Transfer Air must be provided where the Required Ventilation Air (Column H) is greater than the Design Minimum Air (Column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (Column H) and the Design Minimum Air (Column M), Column H minus M.

2008 Nonresidential Compliance Forms

2008 Nonresidential Compliance Forms

2008 Nonresidential Compliance Forms

Indicate Air Systems Type (Central, Single Zone, VAV or etc)Item or System TagsFC/CU-1-1FC/VRF-2-1,3-1No. of Systems12Indicate Page Reference on the Plans or Schedule list or lis information belowT-24 SectionsT-24 SectionsIteating Equipment Efficiency112(a)N/ANANDATORY MEASURES $T-24$ SectionsIndicate Page Reference on the Plans or Schedule list or lis information belowWANDATORY MEASURES $T-24$ SectionsIndicate Page Reference on the Plans or Schedule list or lis information belowHeating Equipment Efficiency112(a)M/AN/AHVAC or Heat Pump Thermostat112(b), 112(c)M-1M-1Natural Ventilation121(b)M-1M-1Matural Ventilation121(b)M-1M-1Mothad Control Ventilation121(b)N/AN/ADemand Control Ventilation122(c)N/AN/AItes Control122(c)N/AN/ASetback and Setup Control122(b)M-1M-1Isolation Zones122(g)M-1M-1Ipe Insulation123M-1M-1Ites Calculated Design Heating Load144(a & b)M-1M-1Calculated Design Heating Load144(a & b)M-1M-1Isolation Zones122(g)M-1M-1Isolation Zones122(g)M-1M-1Isolation Zones122(g)M-1M-1Isolation Zones124(b)N/A	PROJECT NAME: SOFT BAN	K CS2			DATE 02/12/14
Item or System Tags (i.e., AC-1, RTU-1, HP-1)         FC/UL-1-1         FC/VR-2-1,3-1           No. of Systems         1         2           Indicate Page Reference on the Plans or Schedule list or lis information below         Indicate Page Reference on the Plans or Schedule list or lis information below           MANDATORY MEASURES         T-24 Sections         Indicate Page Reference on the Plans or Schedule list or lis information below           MANDATORY MEASURES         T-24 Sections         Indicate Page Reference on the Plans or Schedule list or lis information below           MANDATORY MEASURES         I12(a)         N/A         N/A           Gooling Equipment Efficiency         I12(b)         M-1         M-1           HVAC or Heat Pump Thermostats         I12(b), 112(c)         M-1         M-1           Natural Ventilation         I2(b)         M/A         N/A         M-1           Mechanical Ventilation         I2(b)         M/A         M/A         M-1           Demand Control Ventilation         I21(c)         N/A         N/A         M-1           Statak and Setup Control         I22(p)         M-1         M-1         M-1           Undoor Damper Control         I22(p)         M-1         M-1         M-1           Statation Zones         I22(g)         M-1         M-1         <		Indicate 2	Air Systems Type (C	entral. Single Zone, VA	AV or etc)
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MANDATORY MEASURESIndicate Page Reference on the Plans or Schedule list or lis information belowMANDATORY MEASURES $7-24$ SectionsHeating Equipment Efficiency112(a)N/AN/AN/A Cor Heat Pump Thermostats112(b)Furnace Controls/Thermostat112(c), 115(a)N/AN/ANatural Ventilation121(b)Matural Ventilation121(b)N/AN/AN/AN/AMechanical Ventilation121(b)N/AN/AN/AN/AVAV Minimum Position Control121(b)Demand Control Ventilation121(c)12(c)N/AN/AN/ASetback and Setup Control122(c)Nudor Domes122(g)M-1M-1Isolation Zones122(g)M-1M-1Pipe Insulation123M-1M-1Isolation Zones124(m-1)Metaled Design Heating Load144(a & b)Alfa(a & b)N/AN/AN/ASupply Pressure Reset (DDC only)144(c)Simultaneous Heat/Cool144(d)Heat and Cool Air Supply Reset144(f)Heat Rejection System§144(n)N/AN/ALectric Resistance Heating <sup>1</sup> 144(k)N/AN/AN/AHeat and Cool Air Supply Reset144(k)N/AN/AN/AN/AN/AN/AN/AN/A	No. of Systems		1	2	
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Internet EfficiencyInterventyInterventyHVAC or Heat Pump ThermostatsI12(b)M-1M-1HVAC or Heat Pump ThermostatsI12(b), I12(c)M-1M-1Sturrace Controls/ThermostatI12(b)M-1M-1Mechanical VentilationI21(b)M-1M-1Mechanical VentilationI21(b)M-1M-1VAV Minimum Position ControlI21(b)N/AN/ADemand Control VentilationI21(c)N/AN/ADemand Control VentilationI22(c)N/AN/ASetback and Setup ControlI22(g)M-1M-1Jout for SomeI22(g)M-1M-1Isolation ZonesI22(g)M-1M-1Ipe InsulationI23M-1M-1Duct InsulationI24M-1M-1PRESCRIPTIVE MEASURESCalculated Design Heating LoadI44(a & b)N/ACalculated Design Cooling LoadI44(a & b)M/AIf 44(c)N/AN/AM/ADP Sensor LocationI44(c)N/AN/ASimultaneous Heat/CoolI44(d)N/AN/AElectric Resistance Heating <sup>1</sup> I44(g)N/AN/AHeat and Cool Air Supply ResetI44(f)N/AN/AHeat Rejection System $$144(h)$ N/AN/AHeat Rejection System $$144(h)$ N/AN/ADuct Leakage Sealing. If Yes, a MitCH 4-A must be submittedI44(k)NONO	Heating Equipment Efficiency	112(a)	N/A	N/A	
Coording Equipation Entropy12(b) $M-1$ $M-1$ PVAC or Heat Pump Thermostats112(b), 112(c) $M-1$ $M-1$ Natural Ventilation121(b) $M-1$ $M-1$ Mechanical Ventilation121(b) $M-1$ $M-1$ Mechanical Ventilation121(b) $M/A$ $N/A$ Demand Control Ventilation121(b) $N/A$ $N/A$ Demand Control Ventilation121(c) $N/A$ $N/A$ Demand Control Ventilation121(c) $N/A$ $N/A$ Setback and Setup Control122(e) $N/A$ $N/A$ Outdoor Damper Control122(c) $M/A$ $N/A$ Solation Zones122(g) $M-1$ $M-1$ Pipe Insulation123 $M-1$ $M-1$ Duct Insulation124 $M-1$ $M-1$ PRESCRIPTIVE MEASURES144(a & b) $N/A$ $N/A$ Calculated Design Heating Load144(a & b) $M-1$ $M-1$ Calculated Design Cooling Load144(c) $M/A$ $N/A$ Fan Control144(c) $N/A$ $N/A$ Supply Pressure Reset (DDC only)144(c) $N/A$ $N/A$ Simultaneous Heat/Cool144(d) $N/A$ $N/A$ Electric Resistance Heating <sup>1</sup> 144(g) $N/A$ $N/A$ Heat and Cool Air Supply Reset144(f) $N/A$ $N/A$ Electric Resistance Heating <sup>1</sup> 144(g) $N/A$ $N/A$ Heat Rejection System <b>§</b> 144(i) $N/A$ $N/A$ Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted <t< td=""><td>Cooling Equipment Efficiency</td><td>112(a)</td><td>M-1</td><td></td><td></td></t<>	Cooling Equipment Efficiency	112(a)	M-1		
In the of the at ham functionIn the of the at ham functionFurnace Controls/ThermostatI12(c), 115(a)N/AN/ANatural Ventilation121(b)M-1M-1Mechanical Ventilation121(b)M-1M-1VAV Minimum Position Control121(b)N/AN/ADemand Control Ventilation121(c)N/AN/ADemand Control Ventilation121(c)N/AN/ASetback and Setup Control122(e)N/AN/AOutdoor Damper Control122(g)M-1M-1Isolation Zones122(g)M-1M-1Pipe Insulation123M-1M-1Duct Insulation124M-1M-1PRESCRIPTIVE MEASURES144(a & b)N/AN/ACalculated Design Heating Load144(a & b)M-1M-1Calculated Design Cooling Load144(c)M/AN/ASupply Pressure Reset (DDC only)144(c)N/AN/ASupply Pressure Reset (DDC only)144(d)N/AN/ASimultaneous Heat/Cool144(g)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating <sup>1</sup> 144(g)N/AN/AHeat Rejection System144(g)N/AN/AAir Cooled Chiller Limitation144(k)N/AN/ANucleakage Sealing, If Yes, a MECH-4-A must be submitted144(k)N/ANoNONONO	HVAC or Heat Pump Thermostats	112(a)	M-1		
Antice Control         Initial (1)         Initial (1)           Natural Ventilation         121(b)         M-1         M-1           Mechanical Ventilation         121(b)         M-1         M-1           VAV Minimum Position Control         121(b)         M/A         N/A           Demand Control Ventilation         121(c)         N/A         N/A           Demand Control         121(c)         N/A         N/A           Demand Control         122(c)         N/A         N/A           Setback and Setup Control         122(c)         N/A         N/A           Outdoor Damper Control         122(g)         M-1         M-1           Isolation Zones         122(g)         M-1         M-1           Pipe Insulation         123         M-1         M-1           Duct Insulation         124         M-1         M-1           PRESCRIPTIVE MEASURES         Calculated Design Heating Load         144(a & b)         M-1           Calculated Design Cooling Load         144(a & b)         M-1         M-1           DP Sensor Location         144(c)         M/A         N/A           Supply Pressure Reset (DDC only)         144(c)         N/A         N/A           Electric Resistance Hea	Eurnace Controls/Thermostat	112(0), 112(0) 112(c), 115(a)	N/A	N/A	
Nation $121(0)$ $M-1$ $M-1$ Mechanical Ventilation $121(b)$ $M-1$ $M-1$ VAV Minimum Position Control $121(b)$ $N/A$ $N/A$ Demand Control Ventilation $121(c)$ $N/A$ $N/A$ Time Control $122(c)$ $N/A$ $N/A$ Setback and Setup Control $122(e)$ $N/A$ $N/A$ Outdoor Damper Control $122(e)$ $N/A$ $N/A$ Outdoor Damper Control $122(g)$ $M-1$ $M-1$ Isolation Zones $122(g)$ $M-1$ $M-1$ Pipe Insulation $123$ $M-1$ $M-1$ Duct Insulation $124$ $M-1$ $M-1$ PRESCRIPTIVE MEASURESCalculated Design Heating Load $144(a \& b)$ $M-1$ Add Calculated Design Cooling Load $144(c)$ $M/A$ Pipe Sure Reset (DDC only) $144(c)$ $N/A$ $N/A$ Supply Pressure Reset (DDC only) $144(c)$ $N/A$ $N/A$ Simultaneous Heat/Cool $144(d)$ $N/A$ $N/A$ Heat and Cool Air Supply Reset $144(f)$ $N/A$ $N/A$ Electric Resistance Heating <sup>1</sup> $144(g)$ $N/A$ $N/A$ Heat Rejection System $§144(i)$ $N/A$ $N/A$ Air Cooled Chiller Limitation $§144(i)$ $N/A$ $N/A$ Duct Leakage Sealing. If Yes, a $144(k)$ NONO	Natural Ventilation	121(b)	M-1		
Inclusion $121(0)$ $NA$ $NA$ VAV Minimum Position Control121(b) $NA$ $NA$ Demand Control Ventilation121(c) $NA$ $N/A$ Dimed Control121(c) $NA$ $N/A$ Setback and Setup Control122(e) $N/A$ $N/A$ Outdoor Damper Control122(g) $M-1$ $M-1$ Isolation Zones122(g) $M-1$ $M-1$ Pipe Insulation123 $M-1$ $M-1$ Duct Insulation124 $M-1$ $M-1$ PRESCRIPTIVE MEASURES144(a & b) $N/A$ Calculated Design Heating Load144(a & b) $M-1$ Afta Control144(c) $M-1$ $M-1$ DP Sensor Location144(c) $N/A$ $N/A$ Supply Pressure Reset (DDC only)144(c) $N/A$ $N/A$ Simultaneous Heat/Cool144(g) $N/A$ $N/A$ Heat and Cool Air Supply Reset144(f) $N/A$ $N/A$ Heat Rejection System§144(h) $N/A$ $N/A$ Air Cooled Chiller Limitation§144(i) $N/A$ $N/A$ Duct Leakage Sealing. If Yes, a144(k)NONO	Mechanical Ventilation	121(b)	M-1		
IntroductionIntroductionIntroductionDemand Control Ventilation121(c)N/AN/ATime Control122(e)N/AN/ASetback and Setup Control122(e)N/AN/AOutdoor Damper Control122(f)M-1M-1Isolation Zones122(g)M-1M-1Pipe Insulation123M-1M-1Duct Insulation124M-1M-1PRESCRIPTIVE MEASURESCalculated Design Heating Load144(a & b)N/ACalculated Design Cooling Load144(a & b)M-1Fan Control144(c)M-1M-1DP Sensor Location144(c)N/AN/ASimultaneous Heat/Cool144(d)N/AN/ASimultaneous Heat/Cool144(f)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a144(k)NONO	VAV Minimum Position Control	121(b)	N/A	N/A	
Definition121(c)141141Time Control122(e)N/AN/ASetback and Setup Control122(e)N/AN/AOutdoor Damper Control122(f)M-1M-1Isolation Zones122(g)M-1M-1Pipe Insulation123M-1M-1Duct Insulation124M-1M-1PRESCRIPTIVE MEASURESCalculated Design Heating Load144(a & b)N/AAft(c)M-1M-1M-1DP Sensor Location144(c)N/AN/ASimultaneous Heat/Cool144(c)N/ASimultaneous Heat/Cool144(d)N/AEconomizer144(g)N/AHeat and Cool Air Supply Reset144(f)N/AHeat Rejection System $\mathbf{S}_1$ 44(i)N/AAir Cooled Chiller Limitation $\mathbf{S}_1$ 44(i)N/AN/AN/AN/AIdeating Sealing. If Yes, a MECH-4-A must be submitted144(k)NO	Demand Control Ventilation	121(c)	N/A	N/A	
InterventionInterventionInterventionSetback and Setup Control $122(e)$ N/AN/AOutdoor Damper Control $122(f)$ M-1M-1Isolation Zones $122(g)$ M-1M-1Pipe Insulation $123$ M-1M-1Duct Insulation $124$ M-1M-1PRESCRIPTIVE MEASURESCalculated Design Heating LoadCalculated Design Cooling Load $144(a \& b)$ M-1 <td>Time Control</td> <td>121(e)</td> <td></td> <td></td> <td></td>	Time Control	121(e)			
Display $122(r)$ $111$ $111$ Outdoor Damper Control $122(r)$ $M-1$ $M-1$ Isolation Zones $122(g)$ $M-1$ $M-1$ Pipe Insulation $123$ $M-1$ $M-1$ Duct Insulation $124$ $M-1$ $M-1$ PRESCRIPTIVE MEASURESCalculated Design Heating Load $144(a \& b)$ $N/A$ Calculated Design Cooling Load $144(a \& b)$ $M-1$ Fan Control $144(a \& b)$ $M-1$ DP Sensor Location $144(c)$ $M/A$ Supply Pressure Reset (DDC only) $144(c)$ $N/A$ Simultaneous Heat/Cool $144(d)$ $N/A$ Economizer $144(g)$ $N/A$ Heat and Cool Air Supply Reset $144(f)$ $N/A$ Electric Resistance Heating <sup>1</sup> $144(g)$ $N/A$ Heat Rejection System $\mathbf{\$}_144(h)$ $N/A$ Air Cooled Chiller Limitation $\mathbf{\$}_144(k)$ $N/A$ Nuch-4-A must be submitted $144(k)$ $NO$	Setback and Setup Control	122(e)		N/A	
Isolation Zones122(g)M-1M-1Pipe Insulation123M-1M-1Duct Insulation124M-1M-1PRESCRIPTIVE MEASURESCalculated Design Heating Load144(a & b)N/ACalculated Design Cooling Load144(a & b)M-1Fan Control144(c)M-1M-1DP Sensor Location144(c)M/AN/ASupply Pressure Reset (DDC only)144(c)N/AN/ASimultaneous Heat/Cool144(d)N/AN/AElectric Resistance Heating <sup>1</sup> 144(g)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating <sup>1</sup> 144(g)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing, If Yes, a MECH-4-A must be submitted144(k)NONO	Outdoor Damper Control	122(f)			
Pipe Insulation12(g)123M-1M-1Pipe Insulation123M-1M-1M-1Duct Insulation124M-1M-1PRESCRIPTIVE MEASURESCalculated Design Heating Load144(a & b)N/AN/ACalculated Design Cooling Load144(a & b)M-1M-1Fan Control144(c)M-1M-1M-1DP Sensor Location144(c)N/AN/ASupply Pressure Reset (DDC only)144(c)N/AN/ASimultaneous Heat/Cool144(d)N/AN/AEconomizer144(e)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating <sup>1</sup> 144(g)N/AN/AAir Cooled Chiller Limitation§144(h)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Isolation Zones	122(g)	M-1	M-1	
Just Insulation124M-1M-1PRESCRIPTIVE MEASURESCalculated Design Heating Load144(a & b)N/AN/ACalculated Design Cooling Load144(a & b)M-1M-1Calculated Design Cooling LoadFan ControlDP Sensor Location144(c)M-1M-1DP Sensor LocationSupply Pressure Reset (DDC only)Simultaneous Heat/Cool144(c)N/A </td <td>Pipe Insulation</td> <td>123</td> <td>M-1</td> <td></td> <td></td>	Pipe Insulation	123	M-1		
PRESCRIPTIVE MEASURESCalculated Design Heating Load144(a & b)N/AN/ACalculated Design Cooling Load144(a & b)M-1M-1Calculated Design Cooling Load144(a & b)M-1M-1Fan Control144(c)M-1M-1DP Sensor Location144(c)N/AN/ASupply Pressure Reset (DDC only)144(c)N/AN/ASimultaneous Heat/Cool144(d)N/AN/AEconomizer144(e)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating <sup>1</sup> 144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Duct Insulation	124	M-1		
Calculated Design Heating Load144(a & b)N/AN/ACalculated Design Cooling Load144(a & b)M-1M-1Fan Control144(c)M-1M-1DP Sensor Location144(c)N/AN/ASupply Pressure Reset (DDC only)144(c)N/AN/ASimultaneous Heat/Cool144(d)N/AN/AEconomizer144(e)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating <sup>1</sup> 144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	PRESCRIPTIVE MEASURES	L I			
Calculated Design Cooling Load144(a & b)M-1M-1Fan Control144(c)M-1M-1DP Sensor Location144(c)M/AN/ASupply Pressure Reset (DDC only)144(c)N/AN/ASimultaneous Heat/Cool144(d)N/AN/AEconomizer144(e)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating <sup>1</sup> 144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Calculated Design Heating Load	144(a & b)	N/A	N/A	
Fan Control144(c)M-1M-1DP Sensor Location144(c)N/AN/ASupply Pressure Reset (DDC only)144(c)N/AN/ASimultaneous Heat/Cool144(d)N/AN/AEconomizer144(e)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating <sup>1</sup> 144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Calculated Design Cooling Load	144(a & b)	M-1	M-1	
DP Sensor Location144(c)N/AN/ASupply Pressure Reset (DDC only)144(c)N/AN/ASimultaneous Heat/Cool144(d)N/AN/AEconomizer144(e)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating1144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Fan Control	144(c)	M-1	M-1	
Supply Pressure Reset (DDC only)144(c)N/AN/ASimultaneous Heat/Cool144(d)N/AN/AEconomizer144(e)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating1144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	DP Sensor Location	144(c)	N/A	N/A	
Simultaneous Heat/Cool144(d)N/AN/AEconomizer144(e)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating1144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a144(k)NONO	Supply Pressure Reset (DDC only)	144(c)	N/A	N/A	
Economizer144(e)N/AN/AHeat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating1144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Simultaneous Heat/Cool	144(d)	N/A	N/A	
Heat and Cool Air Supply Reset144(f)N/AN/AElectric Resistance Heating1144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Economizer	144(e)	N/A	N/A	
Electric Resistance Heating1144(g)N/AN/AHeat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Heat and Cool Air Supply Reset	144(f)	N/A	N/A	
Heat Rejection System§144(h)N/AN/AAir Cooled Chiller Limitation§144(i)N/AN/ADuct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Electric Resistance Heating <sup>1</sup>	144(g)	N/A	N/A	
Air Cooled Chiller Limitation Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted§144(i)N/AN/A144(k)NONO	Heat Rejection System	<b>§</b> 144(h)	N/A	N/A	
Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted144(k)NONO	Air Cooled Chiller Limitation	<b>§</b> 144(i)	N/A	N/A	
	Duct Leakage Sealing. If Yes, a <b>MECH-4-A</b> must be submitted	144(k)	NO	NO	

![](_page_11_Picture_13.jpeg)

## SOFTBANK 2 Circle Star

March 2010

March 2010

March 2010

San Carlos, CA 94070

## FLOORS 1, 2, 3, 4 BUILDING 2 2 CIRCLE STAR WAY San Carlos, CA 94070

## MECHANICAL TITLE-24

SSUE:	DATE:	DESCRIPTION:
	02.18.14	ISSUE FOR PERMIT
ORAWN	BY:	A.P.
REVIEW	/ED BY:	B.P.
APPRO	VED BY:	B.P.
SVM PF	ROJECT NO.:	C14-3346

![](_page_11_Picture_20.jpeg)

![](_page_11_Picture_21.jpeg)