INDOOR UNIT SCH	IEDULE		
	IDU A1	IDU C1	IDU D1
MARK		5	
CFM (LOW / MED / HIGH)	290 / 350 / 420	290 / 350 / 420	290 / 350 / 420
ESP (IN WC)			
MINIMUM OSA (CFM)	45	45	45
HP / BHP / WATTS			
VOLTAGE/PHASE	(1)	(1)	(1)
MCA / MOCP	0.2 /	0.2 /	0.2 /
RPM			
DRIVE	DIRECT	DIRECT	DIRECT
MOUNTING	CEILING	CEILING	CEILING
COOLING:			
TOTAL (MBH)	16	16	16
SENSIBLE (MBH)			
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67
AMBIENT DB (°F)	95	95	95
REFRIGERANT	R410A	R410A	R410A
LIQUID LINE SIZE	1/4"	1/4"	1/4"
SUCTION LINE SIZE	1/2"	1/2"	1/2"
CONDENSATE CONN	1"	1"	1"
SEER / EER AT AHRI	20 / 12.5	20 / 12.5	20 / 12.5
HEATING:			
CAPACITY (MBH)	18	18	18
EADB (°F)	70	70	70
AMBIENT DB (°F)	47	47	47
HSPF / COP	10.3 / 2.88	10.3 / 2.88	10.3 / 2.88
FILTERS:			
QUANTITY / SIZE			
TYPE	WASHABLE	WASHABLE	WASHABLE
PD, CLEAN (IN WC)			
MANUFACTURER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	40MBCQ18	40MBCQ18	40MBCQ18
CONTROL	TSTAT (3)	TSTAT (3)	TSTAT (3)
SERVICE	SEE PLANS	SEE PLANS	SEE PLANS
OP WEIGHT (LBS)	45	45	45

(1) INDOOR UNIT RECEIVE POWER FROM OUTDOOR UNIT

ACCESSORIES

2) BUILT-IN CONDENSATE PUMP (3) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT

(2) (2)

PACKAGE AIR CO	ONDITIONING UN	IIT SCHEDULE													
MARK	AC C1	AC C2	AC C3	AC C4	AC C5	AC D1	AC D2	AC D3	AC D4	AC D5	AC E1	AC E2	AC E3	AC E4	AC E5
VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3
MCA / MOCP	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25
FLA / LRA	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53	21 / 53
FUSE SIZE	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
BLOWER:															
CFM	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
DUCT SP (IN WC)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
MINIMUM OSA (CFM)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
HP / BHP	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79	1 / 0.79
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
COOLING:	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES	2 STAGES
TOTAL (MBH)	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
SENSIBLE (MBH)	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
AMBIENT DB (°F)	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
REFRIGERANT	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
CONDENSATE CONN	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
SEER / EER AT AHRI	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2
HEATING:															
CAPACITY (MBH)	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
EADB (°F)	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
AMBIENT DB (°F)	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
STRIP HEATER (KW)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
HSPF/COP	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7	8.3/3.7
FILTERS:															
RA: QUANTITY / SIZE	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2
TYPE	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13
PD, CLEAN (IN WC)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
OSA: QUANTITY / SIZE	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1
TYPE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05	50GCQM05
CONTROL	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)	T'STAT (6)
SERVICE	CLASSROOM C-1	CLASSROOM C-2	CLASSROOM C-3	CLASSROOM C-5	CLASSROOM C-6	CLASSROOM D-1	CLASSROOM D-2	CLASSROOM D-3	CLASSROOM D-5	CLASSROOM D-6	CLASSROOM E-1	CLASSROOM E-2	CLASSROOM E-3	CLASSROOM E-4	CLASSROOM E-5
OP WEIGHT (LBS)	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800

(1),(2),(3),(4),(5)

(1),(2),(3),(4),(5)

(1),(2),(3),(4),(5)

**OUTDOOR UNIT SCHED** ODU ODU \ MCA / MOCP 16 / 25 16 / 25 16 / 25 **FUSE SIZE** 20 VOLTAGE/PHASE 208-230/1 208-230/1 208-230/1 COOLING: TOTAL (MBH) 16 16 AMBIENT DB (°F) 95 **SEER / EER AT AHRI** 20 / 12.5 20 / 12.5 20 / 12.5 **HEATING:** CAPACITY (MBH) 18 18 AMBIENT DB (°F) 47 HSPF / COP 10.3 / 2.88 | 10.3 / 2.88 10.3 / 2.88 REFRIGERANT R410A R410A R410A LIQUID LINE SIZE 1/4" 1/4" SUCTION LINE SIZE 1/2" 1/2" 1/2" MANUFACTURER CARRIER CARRIER HEAT PUMP | HEAT PUMP | HEAT PUMP MODEL NUMBER 38MARBQ18 | 38MARBQ18 | 38MARBQ18 SERVICE IDU-C1 IDU-D1 IDU-A1

OP WEIGHT (LBS)

ACCESSORIES

(1) INDOOR UNIT RECEIVE POWER FROM OUTDOOR UNIT

105

105

(1),(2),(3),(4) (1),(2),(3),(4) (1),(2),(3),(4)

(2) CRANKCASE HEATER

(3) LOW AMBIENT COOLING OPERATION TO 40°F (4) DISCONNECT BY DIV 26 ELECTRICAL

PACKAGE AIR CO	ONDITIONING UN	IT SCHEDULE			
MARK	AC A1	AC A2	AC A3	AC A4	AC A5
VOLTS/PHASE	400/0	400/2	400/2	400/2	400/2
MCA / MOCP	460/3	460/3	460/3	460/3	460/3
FLA / LRA	27 / 30	27 / 30	27 / 30	27 / 30	27 / 30
FUSE SIZE	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
	30	30	30	30	30
BLOWER:					
CFM	2000	2000	2000	2000	2000
DUCT SP (IN WC)	0.8	0.8	0.8	0.8	0.8
MINIMUM OSA (CFM)	150	150	150	150	150
HP / BHP	1.5 / 1.19	1.5 / 1.19	1.5 / 1.19	1.5 / 1.19	1.5 / 1.19
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
COOLING:	2 STAGES				
TOTAL (MBH)	58.6	58.6	58.6	58.6	58.6
SENSIBLE (MBH)	47.5	47.5	47.5	47.5	47.5
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
AMBIENT DB (°F)	105	105	105	105	105
REFRIGERANT	R410A	R410A	R410A	R410A	R410A
CONDENSATE CONN	3/4"	3/4"	3/4"	3/4"	3/4"
SEER / EER AT AHRI	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2
HEATING:					
CAPACITY (MBH)	55.9	55.9	55.9	55.9	55.9
EADB (°F)	70	70	70	70	70
AMBIENT DB (°F)	47	47	47	47	47
STRIP HEATER (KW)	5.5	5.5	5.5	5.5	5.5
HSPF/COP	8.3/3.9	8.3/3.9	8.3/3.9	8.3/3.9	8.3/3.9
FILTERS:					
RA: QUANTITY / SIZE	4 / 16x16x2				
TYPE	MERV 13				
PD, CLEAN (IN WC)	0.3	0.3	0.3	0.3	0.3
OSA: QUANTITY / SIZE	1 / 20x24x1				
TYPE	WASHABLE	WASHABLE	WASHABLE	WASHABLE	WASHABLE
					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP				
MODEL NUMBER	50GCQM06	50GCQM06	50GCQM06	50GCQM06	50GCQM06
CONTROL	T'STAT (6)				
SERVICE	MPR	MPR	MPR	MPR	KITCHEN
OP WEIGHT (LBS)					
	800	800	800	800	800
ACCESSORIES	(1),(2),(3),(4),(5),(7),(8)	(1),(2),(3),(4),(5),(7),(8)	(1),(2),(3),(4),(5),(7),(8)	(1),(2),(3),(4),(5),(7),(8)	(1),(2),(3)(5),(7),(8),(

(1),(2),(3),(4),(5)

(1),(2),(3),(4),(5)

(1),(2),(3),(4),(5)

(1) INSULATED ROOF CURB TO MATCH ROOF SLOPE

(2) HEAVY DUTY CONDENSER COIL GUARD

(1),(2),(3),(4),(5)

(6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT

1) INSULATED ROOF CURB TO MATCH ROOF SLOPE

(2) HEAVY DUTY CONDENSER COIL GUARD

5) DISCONNECT BY DIV 26 ELECTRICAL

(3) HINGED ACCESS PANELS

ACCESSORIES

(1),(2),(3),(4),(5)

(4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, BAROMETRIC RELIEF, AND DEMAND CONTROL VENTILATION

(1),(2),(3),(4),(5)

(3) HINGED ACCESS PANELS

(4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, BAROMETRIC RELIEF, AND DEMAND CONTROL VENTILATION

(5) DISCONNECT BY DIV 26 ELECTRICAL (6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT

(7) SMOKE DETECTOR IN SUPPLY AIR DUCT TO SIGNAL FAN SHUT DOWN AND FIRE ALARM SYSTEM (8) UL 867 AND 2998 LISTED NPBI TYPE ION GENERATOR POWERED BY UNIT, iWAVE-C

(9) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, AND BAROMETRIC RELIEF

MARK	LOCATION	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC-AA ALUMINUM FULL LOUVER FACE WITH SQUARE OR RECTANGULAR NECK, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
B	CEILING RETURN	TITUS 50F ALUMINUM EGGCRATE WITH 1/2x1/2x1/2 GRID, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
Ĉ	DUCT SUPPLY	TITUS 300RL-HD HEAVY DUTY STEEL SUPPLY GRILLE, 1/2" FRONT BLADE SPACING AND 3/4" REAR BLADE SPACING, 14 GAUGE FRONT BLADES PARALLEL TO LONG DIMENSION, ADJUST FRONT BLADES TO 5 DEGREE UPWARD DEFLECTION, OPPOSED BLADE DAMPER, STANDARD #26 WHITE FINISH.
D	CEILING RETURN	TITUS 33RL HEAVY DUTY STEEL RETURN GRILLE, 1/2" BLADE SPACING, 38 DEGREED DEFLECTION, 14 GAUGE BLADES PARALLEL TO LONG DIMENSION, OPPOSED BLADE DAMPER, STANDARD #26 WHITE FINISH.
E	DUCT SUPPLY	TITUS 272RL STEEL DOUBLE DEFLECTION SUPPLY GRILLE, 3/4" BLADE SPACING, 2 GAUGE BLADES PARALLEL TO LONG DIMENSION, SET ADJUSTABLE BLADES TO 0 DEGREE DEFLECTION, OPPOSED BLADE DAMPER, STANDARD #26 WHITE FINISH.
F	CEILING RETURN	TITUS 350FL ALUMINUM RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, OPPOSED BLADE DAMPER STANDARD #26 WHITE FINISH.

(1),(2),(3),(4),(5)

(1),(2),(3),(4),(5)

SYMBOL

\_\_ \_\_ \_\_

\_\_ \_ \_ \_ \_

----- GAS ------

—— G ———

---- OL -----

\_\_\_\_ D \_\_\_\_

----- IW ------

<del>- | | |</del>

—— CD ——

S. W. D.

CW

HWR

FCO

COTG

WCO

GV OR SOV

STR

RED

(1),(2),(3),(4),(5)

(1),(2),(3),(4),(5)

MECHANICAL LEGEND

DESCRIPTION

SOIL, WASTE OR DRAIN

VENT

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC HOT WATER RETURN

GAS MAIN BY GAS UTILITY COMPAN

LOW PRESSURE NATURAL GAS

RAIN WATER LEADER

OVERFLOW LEADER

CONDENSATE DRAIN

DRAIN

INDIRECT WASTE

FLOOR CLEANOUT

CLEANOUT TO GRADE

WALL CLEANOUT

VENT THROUGH ROOF

GATE OR SHUT - OFF VALVE

BALL VALVE

CHECK VALVE

STRAINER

UNION

ELBOW UP

**ELBOW DOWN** 

REDUCER

HOSE BIBB

PETES PLUG

PRESSURE RELIEF VALVE

(1),(2),(3),(4),(5)

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED

DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION MP□ MD□ PP□ E□ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP□ MD□ PP□ E□ OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM #) #OPM-0043 MASON WEST SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS.

#### **GENERAL NOTES**

THE PLANS AND SPECIFICATIONS DESCRIBE THE PLUMBING WORK AND HVAC WORK OF THIS PROJECT ANY ITEMS MENTIONED IN ONE PART SHALL BE AS BINDING AS THOUGH MENTIONED IN BOTH. PROVIDE THE NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES FOR A COMPLETE

FUNCTIONING SYSTEM. ALL LOCATIONS OF EXISTING UTILITIES, DUCTWORK, AND EQUIPMENT SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK, INCLUDING EXACT LOCATION, SIZE, SERVICE, AND ROUTING OF EXISTIN UTILITIES AND DUCTWORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH MAY CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION

PLUMBING AND HVAC LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC ONLY. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. EXACT LOCATION OF EQUIPMENT, DUCTWORK, AND PIPES SHALL BE COORDINATED WITH OTHER TRADES.

PROVIDE CLEANOUTS PER CPC SECTIONS 707, 719 AND 1101.13.

DOCUMENTS.

PROVIDE PLUMBING VENT TERMINATION PER CPC SECTION 906. PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN FEET FROM, OR NOT LESS THAN THREE FEET ABOVE, AIR INTAKE OR VENT SHAFT. COORDINATE EXACT LOCATION WITH OTHER TRADES

PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PER CBC SECTIONS 714 AND 717. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED ASSEMBLIES.

THE SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPES SHALL CONFORM TO CBC CHAPTER 16A.

PROVIDE FRESH AIR INTAKE SEPARATION FROM EXHAUST TERMINATION AND PLUMBING VENT TERMINATION PER CMC SECTIONS 502, 510.9 AND 519.5, AND CPC SECTION 906. COORDINATE WITH OTHER TRADES.

> DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, MAINTAIN THE INSIDE CLEAR DIMENSIONS BY INCREASING THE SHEET METAL SIZE TO ACCOMMODATE LINING THICKNESS.

> > DESCRIPTION

UNIT ABBREVIATION

- GRILLE DESIGNATION

-NUMBER

10x10-3 NECK SIZE & BLOW

SUPPLY AIR

RETURN AIR

EXHAUST AIR

DUCT DROP

FIRE DAMPER

FIRE/SMOKE DAMPER

TO TOP OF BOX

– CHWR —

- CHWS ---

— RL ——

— RS ——

DUCT SMOKE DETECTOR

VOLUME CONTROL DAMPER

CARBON DIOXIDE SENSOR

CHILLED/HOT WATER SUPPLY

REFRIGERANT LIQUID

REFRIGERANT SUCTION

ABOVE FINISH FLOOR

**EXISTING** 

//// (E) TO BE REMOVED

THERMOSTAT AT 48" MAXIMUM T'STAT

CHILLED/HOT WATER RETURN CHWR

ACOUSTIC LINED DUCT

SQUARE TO ROUND FITTING

**EQUIPMENT DESIGNATION** 

SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF CEILING DIFFUSERS, REGISTERS AND GRILLES.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122489 INC: REVIEWED FOR SS 🗸 FLS 🖟 ACS 🗆 DATE: 07/27/2023



**BAKERSFIELD** CITY SCHOOL

> 1300 BAKER STREET FRESNO, CA. 93706

HVAC REPLACEMENT

Project Address: **MUNSEY ELEMENTARY** 

3801 BRAVE AVENUE BAKERSFIELD, CA 93309



by SOMAM, Inc. **ARCHITECTURE** 

**ENGINEERING** 

**INTERIOR DESIGN** 6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

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Sheet Title: GENERAL LEGEND

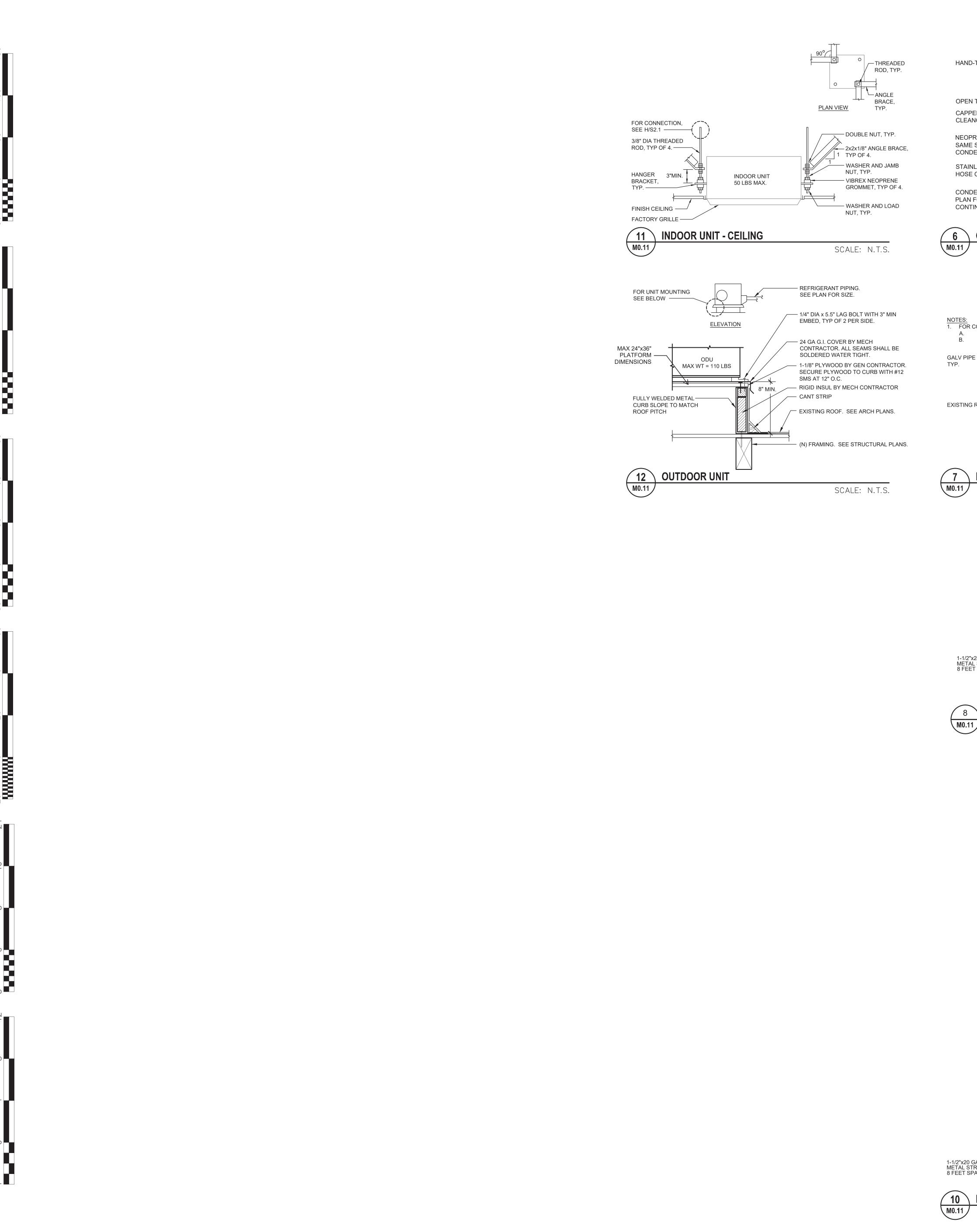
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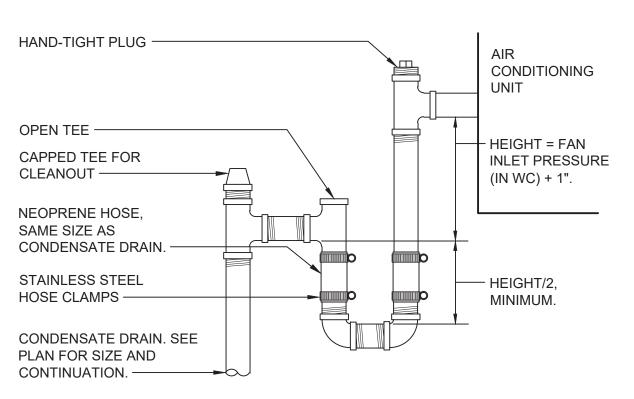
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G:\2022frs\22-5524 BCSD Munsey ES\Sheets\5524-M0.01 GENERAL NOTES - LISA LUM

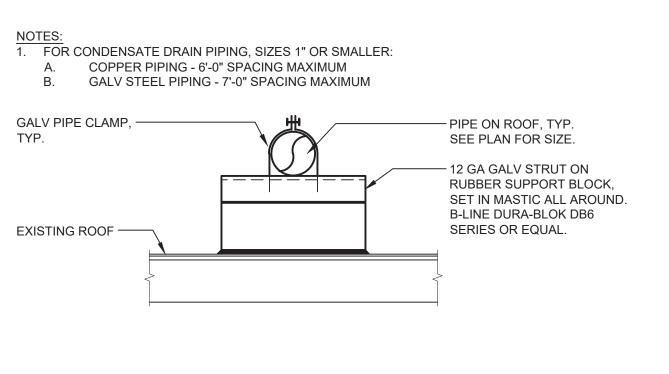
OUTSIDE AIR

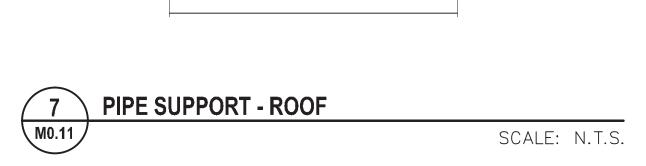
POINT OF CONNECTION

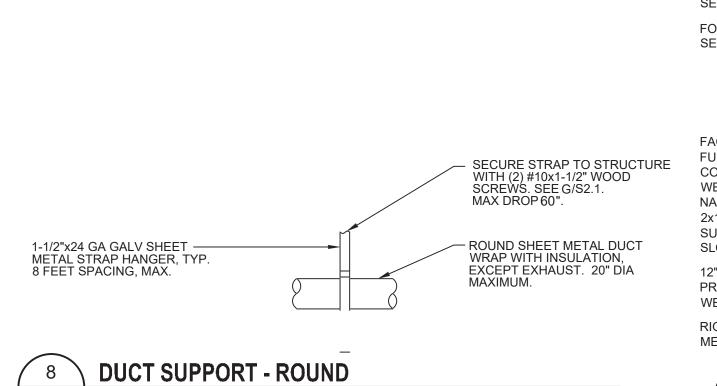


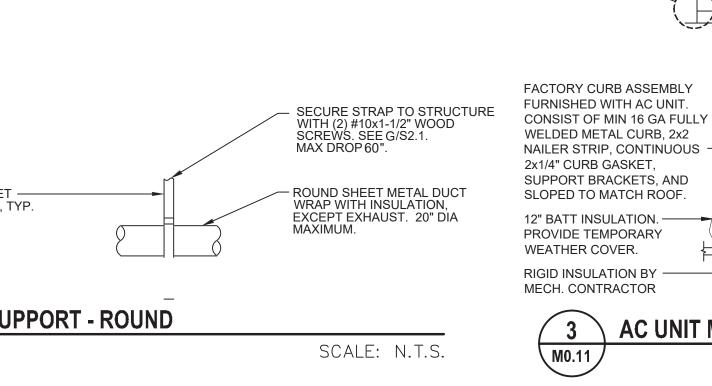


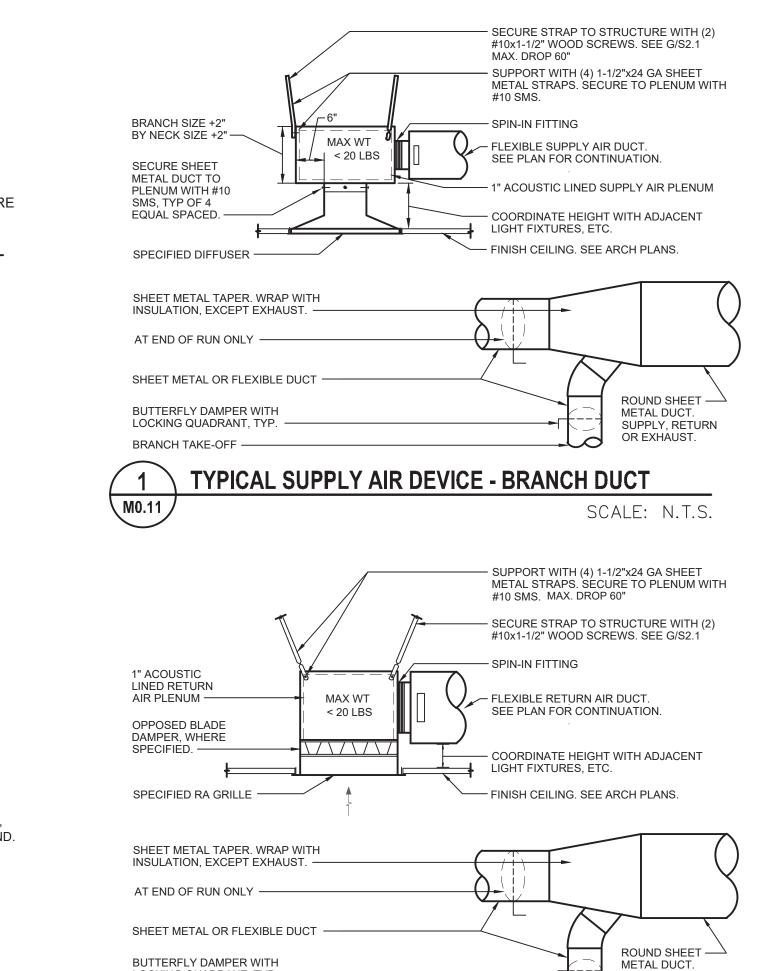
**CONDENSATE DRAIN CONNECTION - DRAW THRU \ M0.11** SCALE: N.T.S.







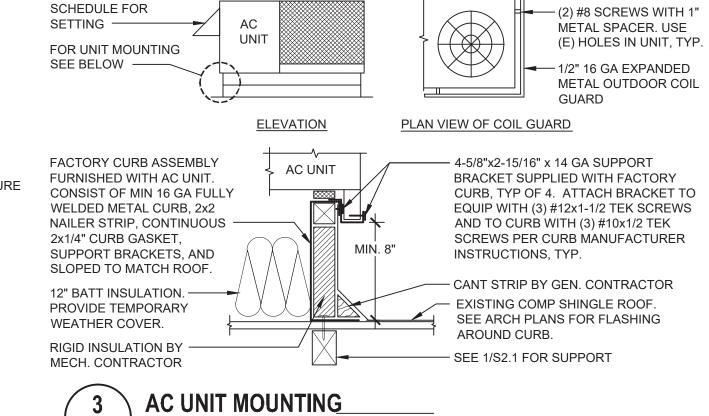




LOCKING QUADRANT, TYP.

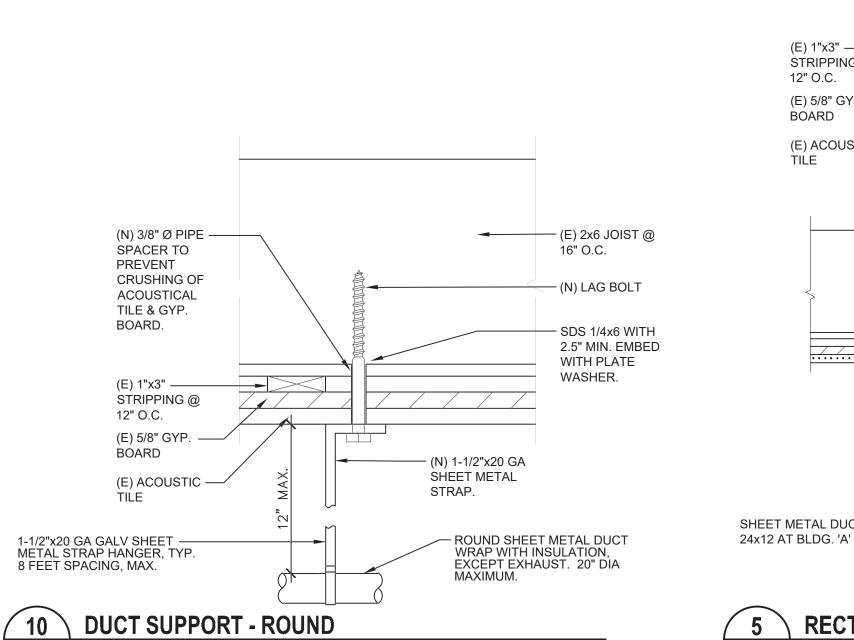
BRANCH TAKE-OFF -

OSA INTAKE. SEE

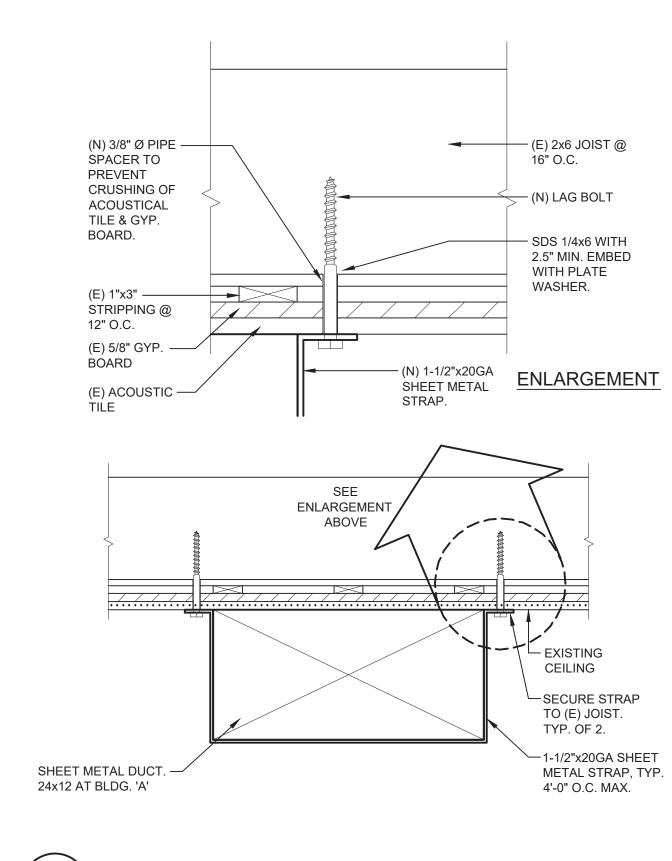


TYPICAL RETURN/EXHAUST AIR DEVICE - BRANCH DUCT

AC UNIT



SCALE: N.T.S.





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**BAKERSFIELD** CITY SCHOOL

SUPPLY, RETURN

SCALE: N.T.S.

OR EXHAUST.

SCALE: N.T.S.

DISTRICT 1300 BAKER STREET FOWLER, CA 93625

HVAC REPLACEMENT

Project Address: MUNSEY **ELEMENTARY** SCHOOL

3801 BRAVE AVENUE BAKERSFIELD, CA 93309



integrated designs

> by SOMAM, Inc. **ARCHITECTURE**

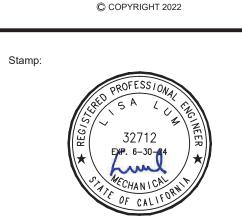
**ENGINEERING** 

**INTERIOR DESIGN** 6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887

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Sheet Title:

**DETAILS** 

5524

Sheet No.: Release: DSA SUBMITTAL 11/28/22

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DIV. OF THE STATE ARCHITECT

APP: 03-122489 INC:

REVIEWED FOR
SS FLS ACS D

DATE: 07/27/2023



#### BAKERSFIELD CITY SCHOOL

**DISTRICT**1300 BAKER STREET

FRESNO, CA. 93706

HVAC REPLACEMENT

Project Address:

MUNSEY

ELEMENTARY

SCHOOL

3801 BRAVE AVENUE BAKERSFIELD, CA 93309



#### integrated designs

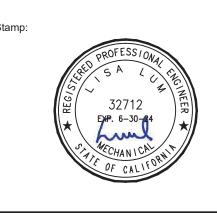
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Sheet T

MECHANICAL SITE PLAN

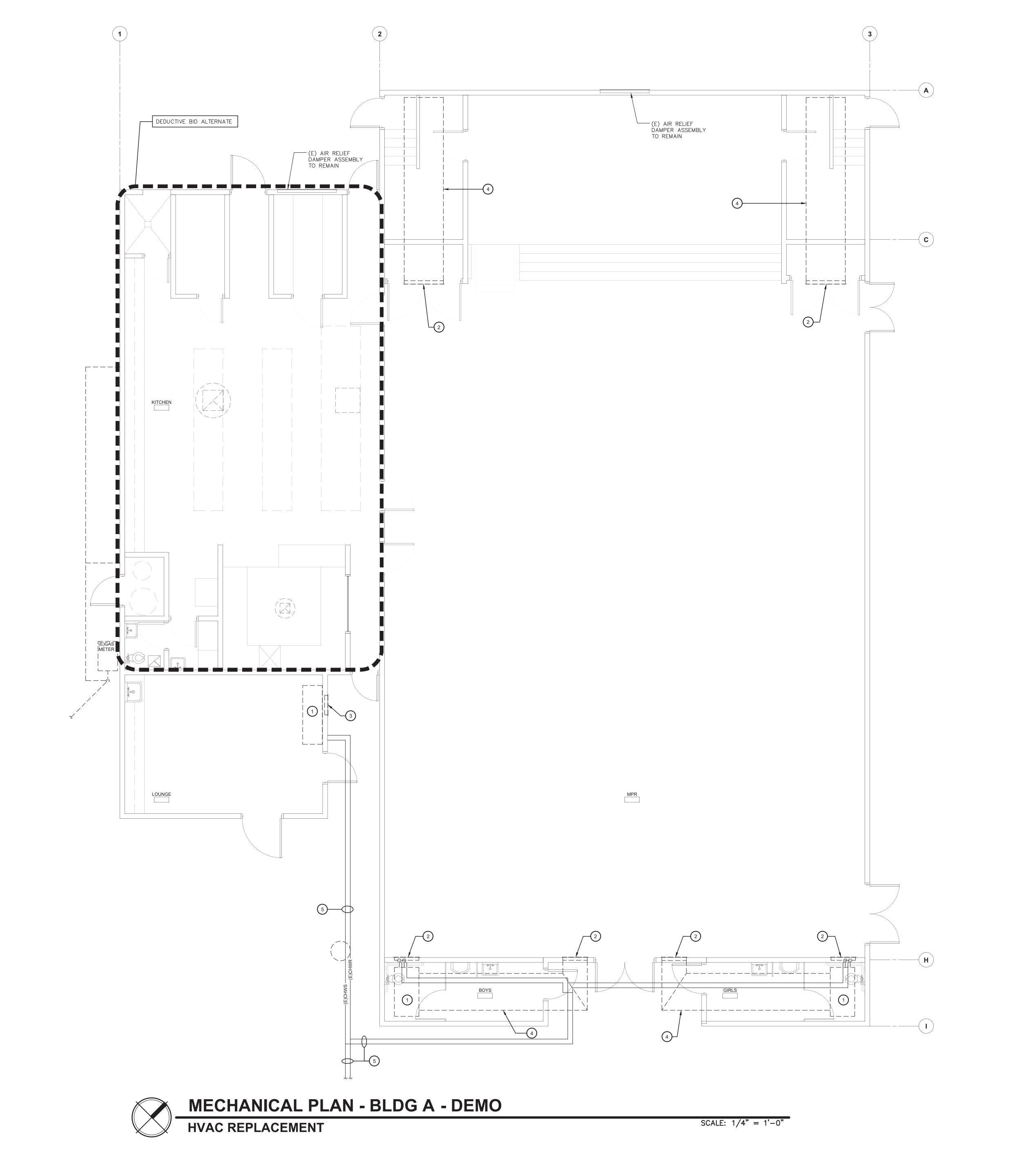
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M1.11

ease: DSA SUBMITTAL 11/2

MECHANICAL SITE PLAN
HVAC REPLACEMENT



#### **KEY NOTES**

- REMOVE EXISTING FAN COIL AND ALL RELATED COMPONENTS, DUCTWORK, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.
- REMOVE EXISTING WALL GRILLE AND DUCTWORK. PATCH OPENING TO MATCH

TO MATCH EXISTING, TYP.

- REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENING TO MATCH EXISTING,
- REMOVE EXISTING DUCTWORK. PATCH OPENING
- REMOVE EXISTING HYDRONIC PIPING ON ROOF AND ALL RELATED COMPONENTS, TYP. PATCH TO MATCH EXISTING, TYP.

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#### **BAKERSFIELD CITY SCHOOL**

DISTRICT 1300 BAKER STREET

FRESNO, CA. 93706

HVAC REPLACEMENT

#### **MUNSEY ELEMENTARY** SCHOOL

3801 BRAVE AVENUE BAKERSFIELD, CA 93309



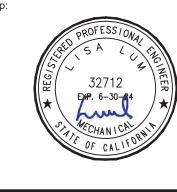
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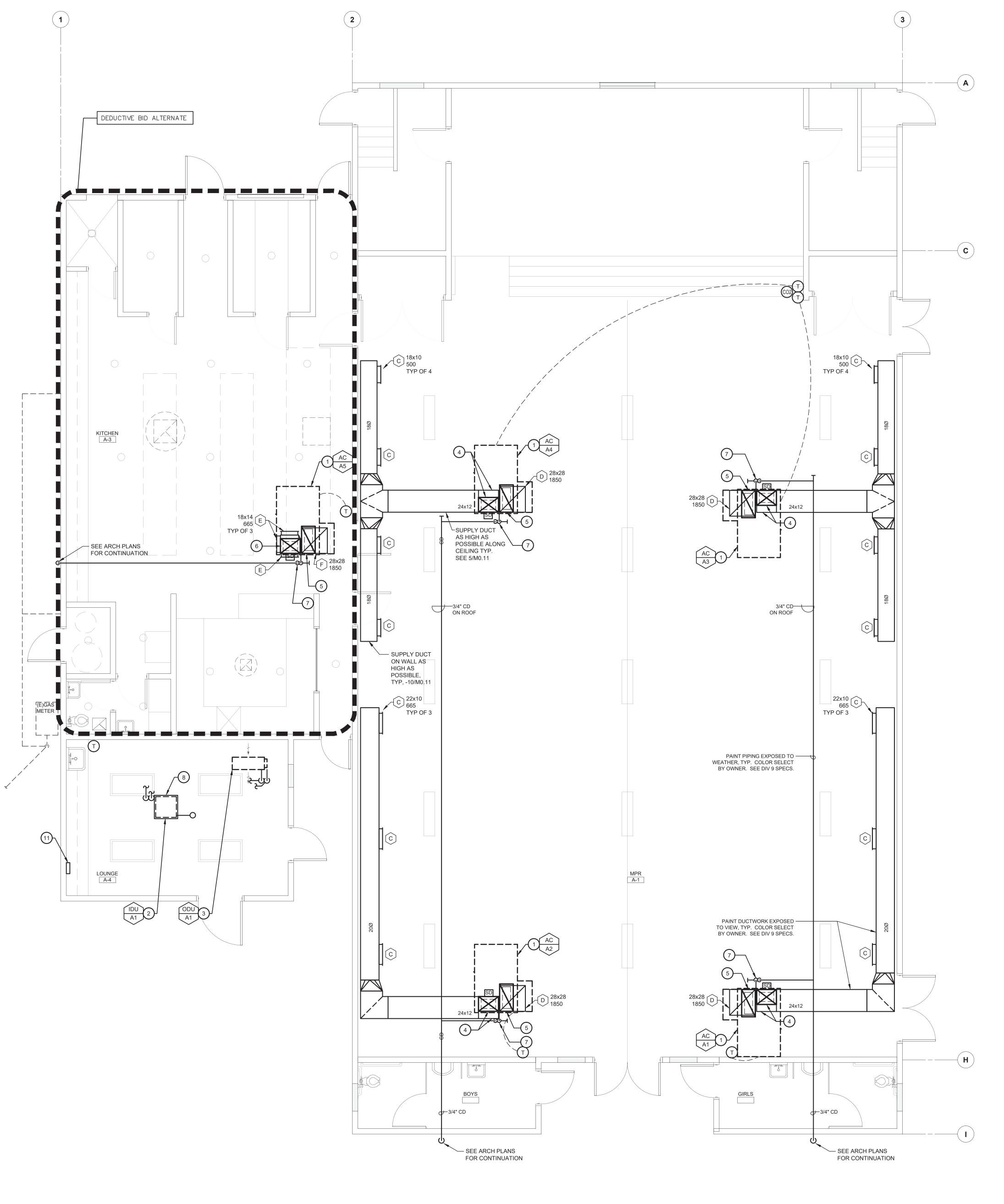


MECHANICAL PLAN - BLDG

5524

G:\2022frs\22-5524 BCSD Munsey ES\Sheets\5524-M2.11 MECHANICAL PLAN - LISA LUI BLDG A.dwg

M2.11



**KEY NOTES** 

- AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND
- 26x12(L) RA PLENUM DROP. PROVIDE TRANSITIONS AS NEEDED. SEE 3/M0.11
- INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6" ROUND OSA DUCT THRU ROOF, TURNED DOWN WITH 1/4" ALUMINUM MESH. EXTEND REFRIGERANT PIPING TO
- OUTDOOR UNIT. SEE 11/M0.11 OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT
- PIPING TO INDOOR UNIT. SEE 12/M0.11 TRANSITION TO 24x12 SUPPLY DUCT BELOW
- TRANSITION TO 28x28 RETURN DUCT AND
- CONNECT TO CEILING RETURN GRILLE.
- TRANSITION TO 20x20 SUPPLY DUCT BELOW CEILING. BOTTOM OF DUCT AT 18" BELOW
- CONNECT 3/4"CD TO AC UNIT ON ROOF WITH TRAP
- INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP. CONNECT 1" DRAIN TO INDOOR UNIT AND DISCHARGE TO TAILPIECE OF SINK. PATCH OPENINGS TO MATCH EXISTING.
- 9. NOT USED
- 10. NOT USED
- 1. HVAC WIRELESS GATEWAY. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET AND ETHERNET CONNECTION.

SS 🗹 FLS 🗹 ACS 🗆

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

REVIEWED FOR

APP: 03-122489 INC:



#### **BAKERSFIELD CITY SCHOOL**

DISTRICT 1300 BAKER STREET

FRESNO, CA. 93706

HVAC REPLACEMENT

#### **MUNSEY ELEMENTARY** SCHOOL

3801 BRAVE AVENUE BAKERSFIELD, CA 93309



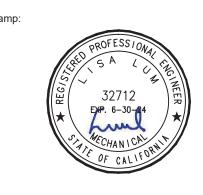
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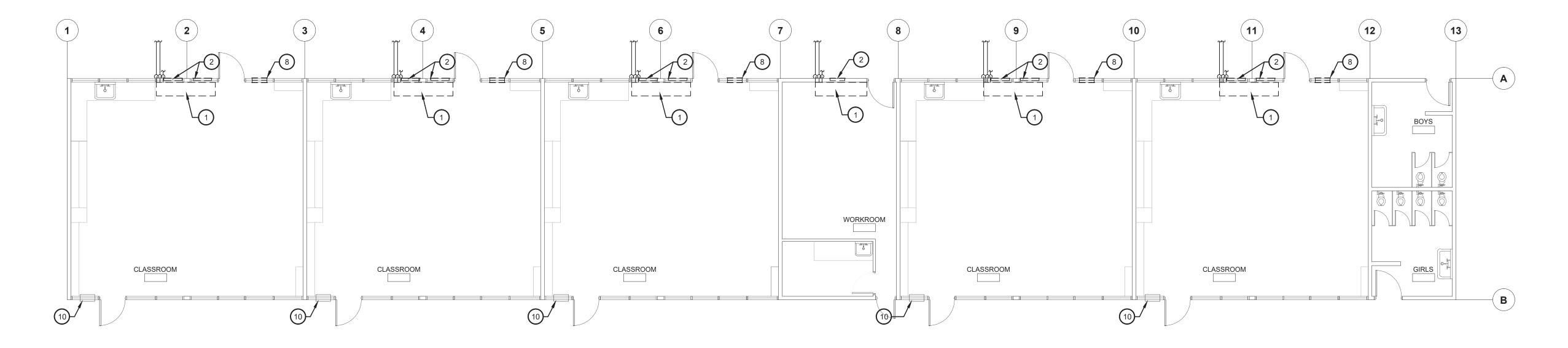
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MECHANICAL PLAN - BLDG

5524

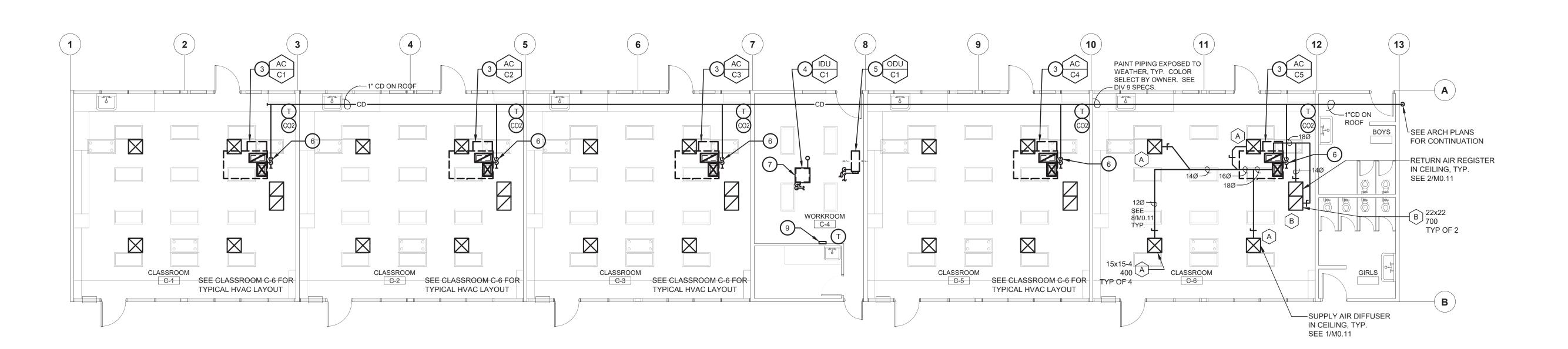
M2.12





#### MECHANICAL PLAN - BLDG C - DEMO

**HVAC REPLACEMENT** 





#### MECHANICAL PLAN - BLDG C - IMPROVEMENTS

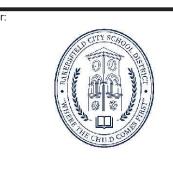
**HVAC REPLACEMENT** 

SCALE: 1/8" = 1'-0"

#### **KEY NOTES**

- REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC. TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
- REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENINGS TO MATCH
- AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS, TYP. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
- INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6" ROUND OSA DUCT THRU ROOF, TURNED DOWN WITH 1/4" ALUMINUM MESH. EXTEND REFRIGERANT PIPING TO OUTDOOR UNIT. SEE
- OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT PIPING TO INDOOR UNIT. SEE
- CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11
- INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP. CONNECT 1" DRAIN TO INDOOR UNIT AND DISCHARGE TO TAILPIECE OF SINK. PATCH OPENINGS TO MATCH EXISTING.
- REMOVE EXISTING RELIEF DAMPER LOUVER AT EXTERIOR WALL, PATCH OPENING TO MATCH EXISTING, TYP.
- HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
- 10. EXISTING BAROMETRIC RELIEF ASSEMBY TO REMAIN, TYP. PROTECT FROM DAMAGE.





#### **BAKERSFIELD CITY SCHOOL DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

MUNSEY **ELEMENTARY** SCHOOL 3801 BRAVE AVENUE

BAKERSFIELD, CA 93309



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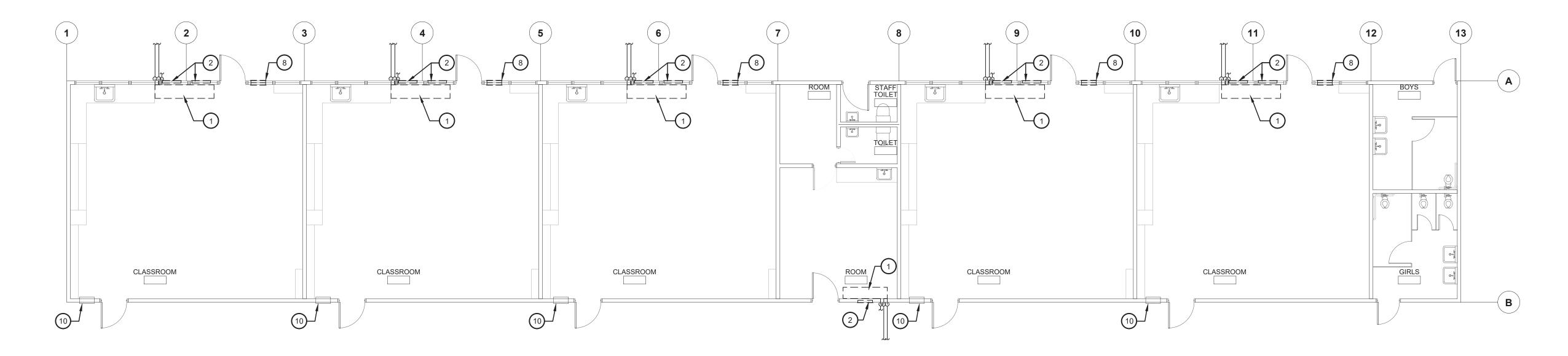


MECHANICAL PLAN - BLDG

5524

M2.31

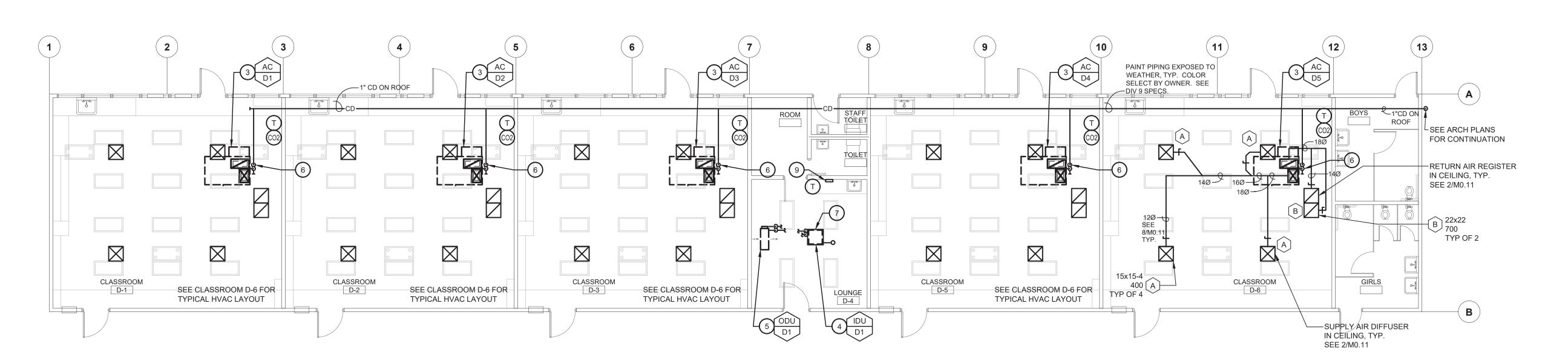
G:\2022frs\22-5524 BCSD Munsey ES\Sheets\5524-M2.31 MECHANICAL PLAN - LISA LUI BLDG C.dwg





#### MECHANICAL PLAN - BLDG D - DEMO

**HVAC REPLACEMENT** 





#### MECHANICAL PLAN - BLDG D - IMPROVEMENTS

**HVAC REPLACEMENT** 

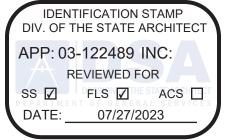
SCALE: 1/8" = 1'-0"

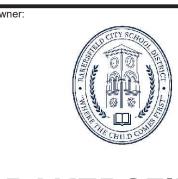
#### **KEY NOTES**

- REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
- REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENINGS TO MATCH EXISTING,
- AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x11(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS, TYP. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
- INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6" ROUND OSA DUCT THRU ROOF, TURNED DOWN WITH 1/4" ALUMINUM MESH. EXTEND REFRIGERANT PIPING
- OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT PIPING TO INDOOR UNIT. SEE

TO OUTDOOR UNIT. SEE 11/M0.11

- CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11
- INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP. CONNECT 1" DRAIN TO INDOOR UNIT AND DISCHARGE TO TAILPIECE OF SINK. PATCH OPENINGS TO MATCH EXISTING.
- REMOVE EXISTING RELIEF DAMPER LOUVER AT EXTERIOR WALL, PATCH OPENING TO MATCH
- HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL
- 0. EXISTING BAROMETRIC RELIEF ASSEMBLY TO REMAIN, TYP. PROTECT FROM DAMAGE.





#### **BAKERSFIELD** CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

MUNSEY **ELEMENTARY** SCHOOL 3801 BRAVE AVENUE

BAKERSFIELD, CA 93309



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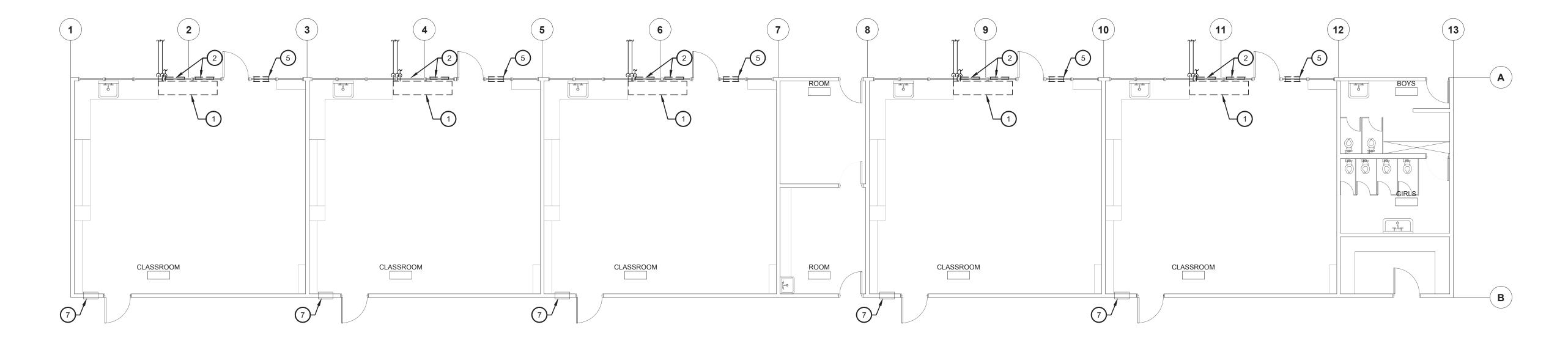


MECHANICAL PLAN - BLDG

5524

M2.41

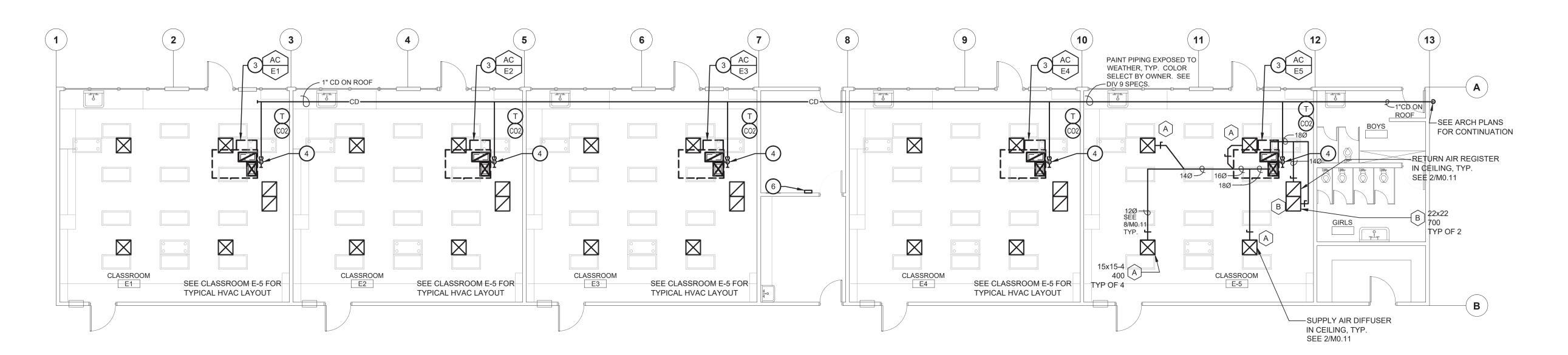
G:\2022frs\22-5524 BCSD Munsey ES\Sheets\5524-M2.41 MECHANICAL PLAN - LISA LUN BLDG D.dwg





#### MECHANICAL PLAN - BLDG E - DEMO

**HVAC REPLACEMENT** 





#### MECHANICAL PLAN - BLDG E - IMPROVEMENTS

**HVAC REPLACEMENT** 

SCALE: 1/8" = 1'-0"

#### **KEY NOTES**

- REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP.
- REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENINGS TO MATCH EXISTING, TYP.
- AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF, BETWEEN EXISTING STRUCTURAL MEMBERS, TYP. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
- CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11
- REMOVE EXISTING RELIEF DAMPER LOUVER AT EXTERIOR WALL, PATCH OPENING TO MATCH
- HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
- EXISTING BAROMETRIC RELIEF ASSEMBLY TO REMAIN, TYP. PROTECT FROM DAMAGE.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS ☑ FLS ☑ ACS □

APP: 03-122489 INC:

### **BAKERSFIELD** CITY SCHOOL

DISTRICT 1300 BAKER STREET BAKERSFIELD, CA 93305

HVAC REPLACEMENT

MUNSEY **ELEMENTARY** SCHOOL

3801 BRAVE AVENUE BAKERSFIELD, CA 93309



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MECHANICAL PLAN - BLDG

5524

M2.51

G:\2022frs\22-5524 BCSD Munsey ES\Sheets\5524-M2.51 MECHANICAL PLAN - LISA LUN BLDG E.dwg

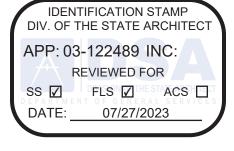
CENTRAL PLANT SHALL REMAIN IN OPERATION UNTIL ALL ASSOCIATED AIR HANDLING UNITS HAVE BEEN

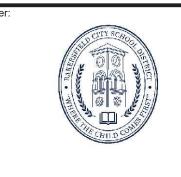
#### **KEY NOTES**

- REMOVE EXISTING AIR COOLED CHILLER AND ALL RELATED COMPONENTS, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES
- AND DELIVER TO OWNER. REMOVE EXISTING ICE STORAGE TANK AND ALL RELATED COMPONENTS, PIPING, ETC, TYP.
- SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE EXISTING HYDRONIC BOILER AND ALL RELATED COMPONENTS, PIPING, ETC, TYP.
- AND DELIVER TO OWNER. REMOVE EXISTING PUMP AND ALL RELATED COMPONENTS, PIPING, CONTROLS, ETC, TYP.

SALVAGE EMS CONTROLLERS AND/OR DEVICES

- REMOVE EXISTING EXPANSION TANK AND ALL RELATED COMPONENTS, PIPING, ETC, TYP.
- REMOVE EXISTING AIR SEPARATOR AND ALL
- RELATED COMPONENTS, PIPING, ETC, TYP. REMOVE EXISTING PIPING AND SUPPORT, TYP.
- REMOVE EXISTING PIPING BELOW GRADE TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP, TYP. FIELD VERIFY SIZE AND LOCATION. SAWCUT AND PATCH TO MATCH EXISTING.
- SALVAGE EXISTING HVAC CONTROL PANEL AND DELIVER TO OWNER





#### **BAKERSFIELD** CITY SCHOOL

DISTRICT 1300 BAKER STREET

FRESNO, CA. 93706

HVAC REPLACEMENT

### MUNSEY **ELEMENTARY**

SCHOOL 3801 BRAVE AVENUE

BAKERSFIELD, CA 93309



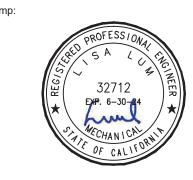
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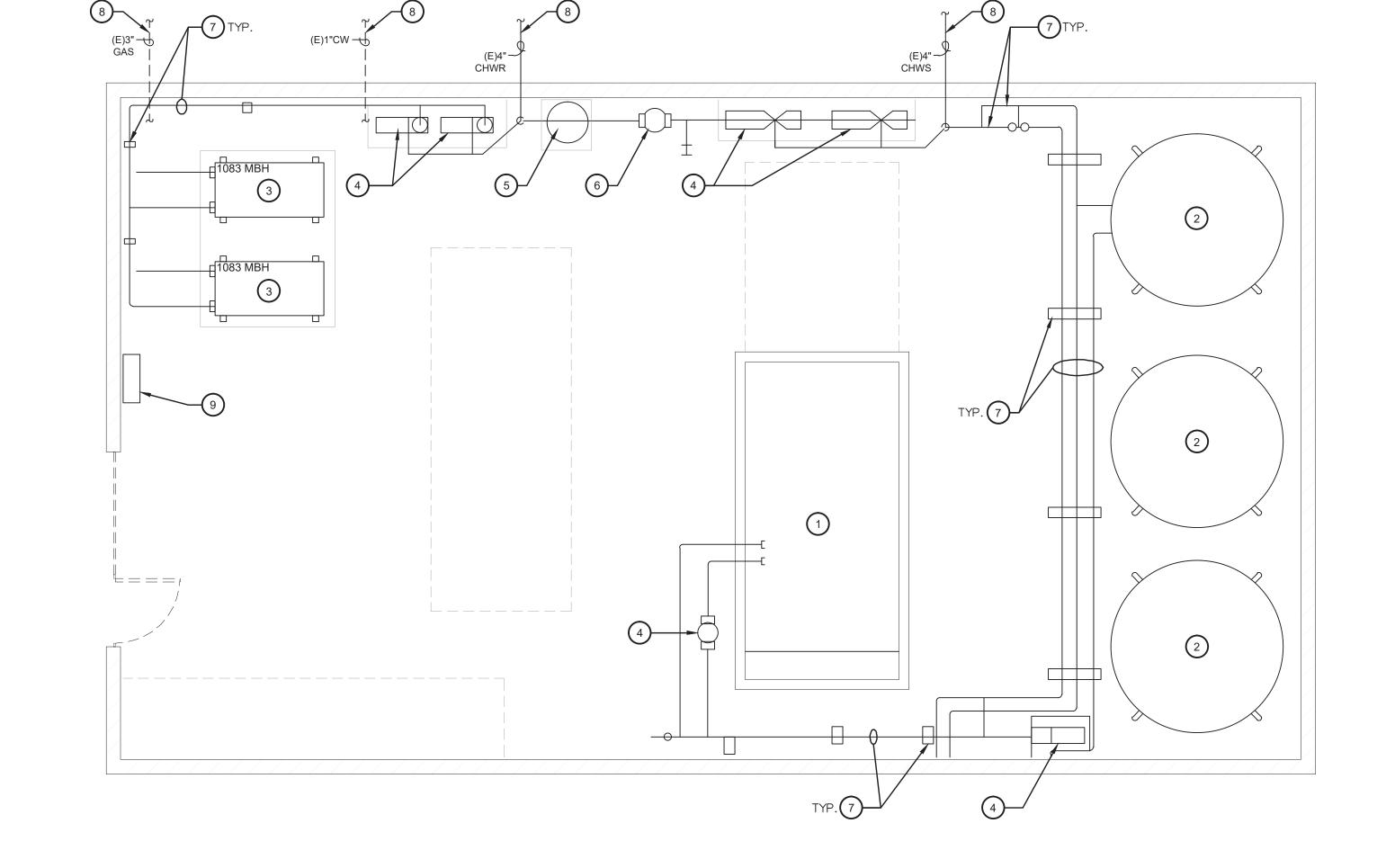


MECHANICAL PLAN -CENTRAL

5524

**PLANT** 

M2.61 Release: DSA SUBMITTAL 11/28/22



### MECHANICAL PLAN - CENTRAL PLANT

**HVAC REPLACEMENT** 

SCALE: 1/4" = 1'-0"

Mechanica IRCC-MCH-E CERTIFICATE OF C									CALIFO	RNIA ENERGY COMMISSION  NRCC-MCH-E	NRCC-MCH-E  CERTIFICATE OI	COMPLIANCE			
Project Name: Project Address:	:			Munsey Eleme 3801 E	entary School Brave Avenue					(Page 13 of 42) 10/18/2022	Project Name: Project Address	<b>:</b>			Mu
SYSTEM COI	SPONNET FOR CONNECTION AND TO SEE			5440.2	15420.2		3			C4.44.0(L)25.6 m although		EMS & AIR ECONO	MIZERS		1
pace condition 01	ning systems.		landatory	04		os una pres	06	ntrols in <u>§140.4(f)</u> and (n) o	08	09	System Name:	AC-C5	Econor	nizer:1	NA: <=54 kBtu/
System N	Name Sys Zor		rea	Thermostats §110.2(b) & (c) <sup>1</sup> ,	Shut Cont	trols	Isolation Zone Controls	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset	Window Interlocks per §140.4(n)	Fan Name or Item Tag	Fan Functio	on	Qty	Maximum Des
AC-A1 to	AC-A4 Single	(ft <sup>2</sup> zone <= 25,0		0.2(a)or §141.0(b) Setback	)2E §120. 4 Hour	2	\$120.2(g) NA: Single	NA: Serves temp. sensitive	e NA: Single Zone	NA: Auto-closing doors	SF Tatal Sua	Supply	N:-fl (CF	1	1600
AC-A	A5 Single	zone <= 25,0	0 ft <sup>2</sup>	Setback	4 Hour	r Timer	Zone NA: Single Zone	NA: Serves temp. sensitive process		NA: Auto-closing doors	System	tem Design Supply A AC-D1	Econor		1600 NA: <=54 kBtu/
IDU-OD	OU-A1 Single	zone <= 25,0	0 ft <sup>2</sup>	Setback	4 Hour	rimer	NA: Single Zone	NA: Serves temp. sensitive process	Zone	NA: Auto-closing doors	Name:	02	200.1101	03	
AC-C		zone <= 25,0		Setback	4 Hour	rimer	NA: Single Zone NA: Single	NA: Serves temp. sensitive process  NA: Serves temp. sensitive	Zone	NA: Auto-closing doors	Fan Name or Item Tag	Fan Functio	on	Qty	Maximum Des
AC-C		zone <= 25,0 zone <= 25,0		Setback Setback	4 Hour	rimer	Zone NA: Single Zone	NA: Serves temp. sensitive	Zone	NA: Auto-closing doors  NA: Auto-closing doors	SF Total Sys	Supply tem Design Supply A	Airflow (CF	1 M):	1600
IDU-OD	DU-C1 Single	zone <= 25,0	0 ft <sup>2</sup>	Setback	4 Hour	r Timer	NA: Single Zone	Process  NA: Serves temp. sensitive process		NA: Auto-closing doors	System Name:	AC-D2	Econor		NA: <=54 kBtu/
AC-C	C4 Single	zone <= 25,0	0 ft <sup>2</sup>	Setback	4 Hour	riimer	NA: Single Zone NA: Single	NA: Serves temp. sensitive process  NA: Serves temp. sensitive	Zone	NA: Auto-closing doors	01 Fan Name or	02		03	Maximum Des
AC-C		zone <= 25,0 zone <= 25,0		Setback Setback	4 Hour	rilmer	Zone NA: Single	process  NA: Serves temp. sensitive	Zone e NA: Single	NA: Auto-closing doors  NA: Auto-closing doors	Item Tag	Fan Functio Supply	on	Qty 1	(
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AC-D	D3 Single	zone <= 25,0	0 ft <sup>2</sup>	Setback	4 Hour	r Timer	NA: Single Zone	NA: Serves temp. sensitive process	e NA: Single Zone	NA: Auto-closing doors					
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AC-D	D5 Single	zone <= 25,0	0 ft <sup>2</sup>	Setback	4 Hour	r IImer	NA: Single Zone	NA: Serves temp. sensitive process	e NA: Single Zone	NA: Auto-closing doors	Fan Name or Item Tag	Fan Functio	on	Qty	Maximum Des
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AC-E		zone <= 25,0	2.5-90	Setback	4 Hour		Zone NA: Single Zone	NA: Serves temp. sensitive process	Zone e NA: Single Zone	NA: Auto-closing doors	01	02		03	M
AC-E	E5 Single	zone <= 25,0	0 ft <sup>2</sup>	Setback	4 Hour	r Timer N	NA: Single Zone	NA: Serves temp. sensitive process	e NA: Single Zone	NA: Auto-closing doors	Fan Name or Item Tag	Fan Functio	on	Qty	Maximum Des
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FAN SYSTI System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag SF Total Sys  System Name: 01 Fan Name or Item Tag	Fan Function Supply  tem Design Supply A  umber: ergy Efficiency Standa  al Systems  COMPLIANCE  SEMS & AIR ECONO  AC-D5  O2  Fan Function Supply tem Design Supply A  AC-E1  O2  Fan Function Supply tem Design Supply A  AC-E2  O2  Fan Function Supply tem Design Supply A  AC-E2  O2  Fan Function Supply tem Design Supply A  AC-E4  O2  Fan Function Supply tem Design Supply A  AC-E4  O2  Fan Function Supply tem Design Supply A  AC-E4  O2  Fan Function Supply tem Design Supply A  AC-E4  O2  Fan Function Supply tem Design Supply A  AC-E4  O2  Fan Function Supply tem Design Supply A  AC-E4	Airflow (CF  Airflow (CF  Airflow (CF  Econor  Airflow (CF	Qty	Maximum Desi (0  1  1600  Mu  Mu  Maximum Desi (0  1600  NA: <=54 kBtu/  Maximum Desi (0  1600  NA: <=54 kBtu/
NENTILATIO This table is use occupancies. For a company and in the com	DN AND INDOOR A  ed to demonstrate or or alterations, only or ation rates and airflo  Check Chec	mpliance with notial tion systems may be show the box if the possible box if the possi	ss being altan on the plooper is short in control in conject in clustoper in clusto	Munsey Elements and a series of the calculate of the calc	Registrat Report Vi Schema V  and a figure of the petions can be a calculations of the petions can be a calculations of the petion of the petion of the petion in any notice.  Registrat Report Vi Schema V  and a figure of the petions of the petion	remit applipresented on the plan viotel space residential conresidential contresion: revision contresidential	lication need in a spread ins, or attaction need in a spread ins, or attaction need in a spread ins, or attaction in a spread in a spread in a spread it is a spread in a spre	ded to be documented in this desheet.  ching the calculations insteal inits.  ching the calculations in the calculation in the c	Air Filtration per Provided p Ho DCV or Sensor Stem Complies?  Air Filtration per Provided p Ho DCV occ Sensor Stem Complies?  Air Filtration per Provided p Ho DCV occ Sensor Stem Complies?  Air Filtration per Provided p Ho DCV occ Sensor Stem Complies?  Air Filtration per Provided p Ho DCV occ Sensor Stem Complies?  Air Filtration per Provided p Ho DCV occ Sensor Stem Complies?  Air Filtration per Provided p Ho DCV occ Sensor Stem Complies?  Air Filtration per Provided p Ho DCV occ Sensor Stem Complies?	this table, the required  this table.  rates per \$120.1(c)2.  gistration Provider: Energysoft nerated: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION	Fan Name or Item Tag  SF  Total Sys  Registration N CA Building En  STATE OF CALIFOR Mechanic NRCC-MCH-E CERTIFICATE OI Project Name: Project Address  H. FAN SYSTI System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag SF  Total Sys System Name: 01 Fan Name or Item Tag	Fan Function Supply  tem Design Supply A  al Systems  COMPLIANCE  SEMS & AIR ECONO  AC-D5  O2  Fan Function Supply  tem Design Supply A  AC-E1  O2  Fan Function Supply  tem Design Supply A  AC-E2  O2  Fan Function Supply  tem Design Supply A  AC-E2  O2  Fan Function Supply  tem Design Supply A  AC-E2  O2  Fan Function Supply  tem Design Supply A  AC-E3  O2  Fan Function Supply  tem Design Supply A  AC-E3  O2  Fan Function Supply  tem Design Supply A  AC-E3  O2  Fan Function Supply  tem Design Supply A  AC-E4  O2  Fan Function Supply  tem Design Supply A  AC-E4	Airflow (CF  Airflow (CF  Airflow (CF  Econor  Airflow (CF	Qty	Mu  Maximum Desi (C  1600  NA: <=54 kBtu/l

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

RCC-MCH-E CERTIFICATE OF C Project Name:	COMPLIANCE				ol Report Page:		CALIFO	RNIA ENERGY COMMISSION  NRCC-MCH-E  (Page 9 of 42)
roject Address:			3801 B	Brave Avenu	Date Prepared:			10/18/2022
System Name:	AC-C5 Econo	mizer:1	NA: <=54 kBtu/h cooling	Econor Contr	-	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01 an Name or	02 Fan Function	03 Qty	Maximum Design Supply	Airflow	05 HP Unit <sup>2</sup>	06 Design HP		08 Adjustment - Table 140.4-B Design Airflow through
SF	Supply	1	(CFM) 1600		ВНР	0.79	Device NA	Device (CFM)
Total Syste  System	em Design Supply Airflow (C	FM):	NA: <=54 kBtu/h cooling	Econor	System Design (B)HP:  nizer Designe	0.79 ed per <u>§140.4(e)</u> and	Maximum System Fan Power (B)HP: System Fan Type:	Constant Volume
Name: 01	02	03	04	Contr	05 05	(m) 06	07	08 Adjustment - Table 140.4-B
an Name or Item Tag	Fan Function	Qty	Maximum Design Supply (CFM)	Airflow	HP Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF Total Syste	Supply em Design Supply Airflow (C	1 FM):	1600	Total S	BHP System Design (B)HP:	0.79	Maximum System Fan Power (B)HP:	NA NA
System Name:	AC-D2 Econo	mizer:1	NA: <=54 kBtu/h cooling	Econor Contr		d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
an Name or Item Tag	Fan Function	Qty	Maximum Design Supply (CFM)	Airflow	HP Unit <sup>2</sup>	Design HP		Adjustment - Table 140.4-B  Design Airflow through Device (CFM)
SF Total Syste	Supply em Design Supply Airflow (C	1 EM):	1600	Total S	BHP System Design	0.79	NA Maximum System Fan	NA NA
iotai syste	em besign supply Almow (c	i wij.	1000		(B)HP:	0.73	Power (B)HP:	
Registration Nur  CA Building Ener  TATE OF CALIFORN <b>Mechanica</b> RCC-MCH-E	rgy Efficiency Standards - 2019	Nonreside	ntial Compliance	Repor	ration Date/Time: t Version: 2019.1.00 na Version: rev 2020		Report Ger	istration Provider: Energysoft nerated: 2022-10-18 15:23:50 RNIA ENERGY COMMISSION
ERTIFICATE OF C roject Name: roject Address:					ol Report Page:			NRCC-MCH-E (Page 10 of 42) 10/18/2022
	MS & AIR ECONOMIZERS		2801 B	Avent				10/16/2022
System Name:		omizer:1	NA: <=54 kBtu/h cooling	Econor Contr		d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
an Name or Item Tag	Fan Function	Qty	Maximum Design Supply (CFM)	Airflow	HP Unit <sup>2</sup>	Design HP	N. C.	Adjustment - Table 140.4-B  Design Airflow through
SF	Supply  Supply Airflow (C	1 EM):	1600	Total 9	BHP System Design	0.79	NA Maximum System Fan	Device (CFM)  NA
System Name:	em Design Supply Airflow (C	mizer:1	NA: <=54 kBtu/h cooling	Econor Contr	(B)HP: Designe	0.79 ed per <u>§140.4(e)</u> and (m)	Power (B)HP:  System Fan Type:	Constant Volume
01 an Name or	02	03	04  Maximum Design Supply		05	06	07 Fan Power Pressure Drop	08 Adjustment - Table 140.4-B
Item Tag	Fan Function Supply	Qty 1	(CFM)		HP Unit <sup>2</sup>	Design HP 0.05	Device NA	Design Airflow through Device (CFM)
Total Syste	em Design Supply Airflow (C	FM):	420	Total S	(B)HP:	0.05 od per <u>§140.4(e)</u> and	Maximum System Fan Power (B)HP:	
Name:	AC-D4 Econo	mizer:1	NA: <=54 kBtu/h cooling	Contr		(m) 06	System Fan Type:	Constant Volume 08
		-						
an Name or Item Tag	Fan Function	Qty	Maximum Design Supply (CFM)	Airflow	HP Unit <sup>2</sup>	Design HP	Fan Power Pressure Drop Device	Adjustment - Table 140.4-B  Design Airflow through  Device (CFM)
SF Total Syste Registration Nur CA Building Ener	Supply em Design Supply Airflow (C mber: rgy Efficiency Standards - 2019	1 FM):	(CFM) 1600 1600	Total S  Regist  Repor	HP Unit <sup>2</sup> BHP  System Design (B)HP:  ration Date/Time: t Version: 2019.1.00 ha Version: rev 2020	0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg	Design Airflow through
SF Total Syste Registration Nun CA Building Ener ATE OF CALIFORN Mechanical RCC-MCH-E ERTIFICATE OF C TOject Name:	Supply em Design Supply Airflow (C mber: rgy Efficiency Standards - 2019 IIA I Systems COMPLIANCE	1 FM):	(CFM)  1600  1600  ntial Compliance	Total S Regist Repor	BHP System Design (B)HP: ration Date/Time:	0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg  Report Ger	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft
SF Total Syste  Registration Nun CA Building Ener  ATE OF CALIFORN ACCHANICAL RCC-MCH-E ERTIFICATE OF C roject Name: roject Address:  FAN SYSTEN System	Supply em Design Supply Airflow (Common Design Supply Airflow (Common Design Supply Airflow (Common Design Supply Airflow (Common Design Supply Airflow Design Supply Airflow (Compliance Design Supply Airflow (C	1 FM):  Nonreside	(CFM)  1600  1600  ntial Compliance	Regist Repor Schem	BHP System Design (B)HP:  ration Date/Time: t Version: 2019.1.00 na Version: rev 2020  ol Report Page: de Date Prepared:	0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg  Report Ger	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft nerated: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42)
SF Total Syste Registration Nur CA Building Ener TATE OF CALIFORN ACCHANICAL RCC-MCH-E ERTIFICATE OF C TOJECT Name: TOJECT Address:  I. FAN SYSTEN System Name: 01	Supply em Design Supply Airflow (Common Design Supply Airflow (Common Design Supply Airflow (Common Design Supply Airflow (Common Design Supply Airflow Design Supply Airflow (Compliance Design Supply Airflow (C	1 FM):  Nonreside	(CFM)  1600  1600  Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling  04	Regist Repor Schem entary Scho irave Avenu  Econor Contr	BHP System Design (B)HP:  ration Date/Time: t Version: 2019.1.00 na Version: rev 2020  ol Report Page: de Date Prepared:	0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg  Report Ger  CALIFOL  System Fan Type:  07	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft herated: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022
SF Total Syste Registration Nur CA Building Ener TATE OF CALIFORN ACCHANICAL RCC-MCH-E ERTIFICATE OF C TOJECT Name: TOJECT Address:  I. FAN SYSTEN System Name: 01	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019 IIIA I Systems COMPLIANCE  MS & AIR ECONOMIZERS AC-D5 Economic 02 Fan Function	Tomizer:1	(CFM)  1600  1600  ntial Compliance  Munsey Eleme 3801 B	Regist Repor Schem entary Scho irave Avenu  Econor Contr	BHP System Design (B)HP:  ration Date/Time: t Version: 2019.1.00 na Version: rev 2020  ol Report Page: ue Date Prepared:  nizer Designe ols:	0.79 0.79 0.601	Device  NA  Maximum System Fan Power (B)HP:  Reg  Report Ger  CALIFOL  System Fan Type:  07	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft herated: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume 08
SF Total Syste  Registration Num CA Building Ener  TATE OF CALIFORN Aechanical RCC-MCH-E ERTIFICATE OF C TOJECT Name: TOJECT Address:  I. FAN SYSTEN System Name: 01 San Name or Item Tag SF Total Syste	Supply em Design Supply Airflow (Common Design Supply Airflow (Com	Nonreside  Nonreside  Odition of the control of the	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)	Regist Repor Schem entary Scho brave Avenu  Econor Contr	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  oil Report Page:  de Date Prepared:  inizer Designe ols:  O5  HP Unit <sup>2</sup> BHP System Design (B)HP:	0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg  Report Ger  CALIFOI  System Fan Type:  07  Fan Power Pressure Drop	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft herated: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume 08  Adjustment - Table 140.4-B Design Airflow through
SF Total Syste  Registration Num CA Building Ener  TATE OF CALIFORN ACCHANICAL RCC-MCH-E ERTIFICATE OF C TOJECT Name: TOJECT Address:  I. FAN SYSTEM Name: 01 Tan Name or Item Tag  SF	Supply em Design Supply Airflow (Commber:  rgy Efficiency Standards - 2019  IIIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5  Economic Company Economic	Nonreside  Nonreside  Odition of the control of the	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600	Regist Repor Schem  entary Scho brave Avenu  Econor Contr	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  oil Report Page:  de Date Prepared:  oil Prepared:  oil Report Page:  de Date Prepared:  oil BHP System Design (B)HP:  nizer Designe	0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOI  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft herated: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume 08  Adjustment - Table 140.4-B Design Airflow through
Total System Registration Num CA Building Ener PATE OF CALIFORN ACCHANICAL RCC-MCH-E ERTIFICATE OF C Project Name: Project Address:  I. FAN SYSTEM Name:  01  System Name SF  Total System Name:  01  System Name O1	Supply em Design Supply Airflow (Comber:  rgy Efficiency Standards - 2019  IIIA  I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5  Economic Complete Supply  Em Design Supply Airflow (Complete Supply  Em Design Suppl	Nonreside  Nonreside  Omizer:  O3  Qty  1  FM):	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling	Regist Report Schem  Intary Scho Grave Avenu  Econor Contr  Airflow  Total S  Econor Contr	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page:  De Date Prepared:  Designe ols:  BHP System Design (B)HP: nizer Designe ols:	0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOR  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Device (2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume
SF Total System Registration Num CA Building Ener ATE OF CALIFORN Alechanical RCC-MCH-E ERTIFICATE OF C roject Name: roject Address:  I. FAN SYSTEM System Name: 01 Tan Name or Item Tag SF Total System Name: 01 Tan Name or Item Tag SF Total System Name: 01 Tan Name or Item Tag SF Total System Name: 01 Tan Name or Item Tag SF Total System Name: 01 Tan Name or Item Tag SF	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019 IIIA I Systems COMPLIANCE  MS & AIR ECONOMIZERS AC-D5 Economic O2 Fan Function Supply em Design Supply Airflow (Compensation) AC-E1 Economic O2	Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling	Regist Report Schem  Intary Scho Frave Avenu  Econor Contr  Airflow  Airflow	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page:  de Date Prepared:  Designe ols:  Designe ols:  Designe ols:  Designe ols:  Designe ols:  BHP System Design (B)HP: nizer ols:  Designe ols:  Designe ols:  BHP System Design (B)HP: nizer Design O5  HP Unit²  BHP System Design O5  HP Unit²	0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOI  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  NA  Maximum System Fan Power Pressure Drop Device  NA	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft nerated: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA
SF Total System Registration Num CA Building Ener ATE OF CALIFORN Alechanical RCC-MCH-E ERTIFICATE OF C roject Name: roject Address:  I. FAN SYSTEM System Name: 01 Tan Name or Item Tag SF Total System Name: 01 Tan Name or Item Tag SF Total System Name: 01 Tan Name or Item Tag SF Total System Name: 01 Tan Name or Item Tag SF Total System Name: 01 Tan Name or Item Tag SF	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Econo  02  Fan Function  Supply em Design Supply Airflow (Compensation)	Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600  NA: <=54 kBtu/h cooling	Regist Report Schem  Intary Scho Frave Avenu  Econor Contr  Airflow  Airflow	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  oil Report Page:  de Date Prepared:  oil Report Page:  de Date Prepared:  oil BHP System Design (B)HP:  nizer ols:  O5  HP Unit²  BHP System Design (B)HP:  nizer Design (B)HP:  nizer Design (B)HP System Design (B)HP	0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOI  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device NA	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft nerated: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA
Registration Num CA Building Ener CATE OF CALIFORN Mechanical RCC-MCH-E ERTIFICATE OF C Troject Name: Total System Name: O1 Can Name or Item Tag SF Total System Name: O1 Can Name or Item Tag SF Total System Name: O1 Can Name or Item Tag SF Total System Name: O1 Can Name or Item Tag SF Total System Name: O1 Can Name or Item Tag SF Total System Name: O1 Can Name or Item Tag SF Total System Name: O1 Can Name or Item Tag SF Total System Name: O1 Can Name or Item Tag SF Total System Name: O1 Can Name or Item Tag SF Total System Name: O1 Can Name or Item Tag SF Total System Name: O1	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Econo  02  Fan Function  Supply em Design Supply Airflow (Compensation)	Monreside	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling	Regist Report Schem  Intary Scho Frave Avenu  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Total S	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  oil Report Page:  de Date Prepared:  oil Report Page:  de Date Prepared:  oil BHP System Design (B)HP:  nizer ols:  O5  HP Unit²  BHP System Design (B)HP:  nizer Design (B)HP:  nizer Design (B)HP System Design (B)HP	0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOI  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft nerated: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08 Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08 Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA
Registration Num CA Building Ener PATE OF CALIFORN Mechanical RCC-MCH-E ERTIFICATE OF C Troject Name: Total System Name: O1 Fan Name or Item Tag SF Total System Name: O1 Fan Name or Item Tag SF Total System Name: O1 Fan Name or Item Tag SF Total System Name: O1 Fan Name or Item Tag SF Total System Name: O1 Fan Name or Item Tag SF Total System Name: O1	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Economic  O2 Fan Function  Supply em Design Supply Airflow (Compensation)	1   1   FM):   Nonreside	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  NA: <=54 kBtu/h cooling	Regist Report Schem  Intary Scho Frave Avenu  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Airflow  Total S	BHP  System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page:  de Date Prepared:  Designe ols:  05  HP Unit²  BHP  System Design (B)HP: nizer ols:  05  HP Unit²  BHP  System Design (B)HP: nizer ols:  05  HP Unit²  BHP  System Design (B)HP: nizer ols:  05  HP Unit²  BHP  System Design (B)HP: nizer ols:  Designe ols:  05  HP Unit²  BHP	0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOI  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Design Airflow MISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA
SF Total System Name: 01	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Econo  02  Fan Function  Supply em Design Supply Airflow (Complete Compensation)  Supply em Design Supply Airflow (Compensation)  Fan Function  02  Fan Function	1   1   FM):   Nonreside	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)	Regist Report Schem  Intary Scho Frave Avenu  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Airflow  Total S	BHP  System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page:  de Date Prepared:  Designe ols:	0.79 0.79 0.79 0.79 0.79 0.60 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.7	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOI  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Device (CFM)  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Table 140.4-B Design Airflow through Device (CFM)
Registration Num CA Building Ener TATE OF CALIFORN Mechanical RCC-MCH-E ERTIFICATE OF C TOJECT Name: TOJECT Address:  System Name: O1 Fan Name or Item Tag SF Total Syste  System Name: O1 Fan Name or Item Tag SF Total Syste  System Name: O1 Fan Name or Item Tag SF Total Syste  System Name: O1 Fan Name or Item Tag SF Total Syste  System Name: O1 Fan Name or Item Tag SF Total Syste  Registration Num CA Building Ener	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Econo 02 Fan Function Supply em Design Supply Airflow (Compensation)	1   1     1	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling	Regist Repor Schem  Intary Scho Grave Avenu  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Total S  Regist Repor	BHP  System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page:  de Date Prepared:  Designe ols:  05  HP Unit²  BHP  System Design (B)HP:  nizer ols:  05  HP Unit²  BHP  System Design (B)HP:  nizer ols:  05  HP Unit²  BHP  System Design (B)HP:  nizer ols:  05  HP Unit²  BHP  System Design (B)HP:  nizer ols:  05  HP Unit²  BHP  System Design (B)HP:  nizer ols:  O5  HP Unit²  BHP  System Design (B)HP:  nizer ols:  O5	0.79 0.79 0.79 0.79 0.79 0.60 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.7	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOR  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  Reg	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Device (CFM)  RNIA ENERGY COMMISSION  NRCC-MCH-E (Page 11 of 42)  10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA
Registration Num CA Building Ener ATE OF CALIFORN Mechanical RCC-MCH-E ERTIFICATE OF C Toject Name: O1 an Name or Item Tag SF Total Syste  Name: O1 an Name or Item Tag SF Total Syste  System Name: O1 an Name or Item Tag SF Total Syste  System Name: O1 an Name or Item Tag SF Total Syste  System Name: CA Building Ener	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Econo  02  Fan Function  Supply em Design Supply Airflow (Compensation)  IIA I Systems  COMPLIANCE	Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600 NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600 NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600  1600	Regist Repor Schem  Intary Scho Irave Avenu  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Total S  Regist Repor Schem	BHP  System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page:  de Date Prepared:  Designe ols:  O5  HP Unit²  BHP  System Design (B)HP: nizer ols:  O5  HP Unit²  BHP  System Design (B)HP: nizer ols:  O5  HP Unit²  BHP  System Design (B)HP: nizer ols:  O5  HP Unit²  BHP  System Design (B)HP: nizer ols:  O5  HP Unit²  BHP  System Design (B)HP: nizer ols:  O5  HP Unit²  BHP  System Design (B)HP: nizer ols:  O5  HP Unit²  BHP  System Design (B)HP: nizer ols:  O5  HP Unit²  BHP  System Design (B)HP: nizer ols:  O5  HP Unit²	0.79 0.79 0.79 0.79 0.79 0.60 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.7	Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Device (CFM)  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B Design Airflow through Device (CFM)  NA  istration Provider: Energysoft
Registration Num CA Building Ener ATE OF CALIFORN Mechanical RCC-MCH-E ERTIFICATE OF C Toject Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag Ian Name Ian	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIA  I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Econo  02  Fan Function  Supply em Design Supply Airflow (Compensation)  IIIA  I Systems  COMPLIANCE  MS & AIR ECONOMIZERS	Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside  Nonreside	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600 NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600 NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600  1600	Regist Repor Schem  Intary Scho Irave Avenu  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Total S  Regist Repor Schem	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page: de Date Prepared:  Designe ols:  Desig	0.79 0.79 0.79 0.79 0.79 0.60 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.7	Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07  Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Presented: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  RNIA ENERGY COMMISSION  NA  RNIA ENERGY COMMISSION  NA  RNIA ENERGY COMMISSION  NRCC-MCH-E (Page 12 of 42)
Registration Num CA Building Ener ATE OF CALIFORN Mechanical RCC-MCH-E ERTIFICATE OF C Toject Address:  I. FAN SYSTEN System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Economic  Supply em Design Supply Airflow (Complete Control of Contr	Nonreside	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600  1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600  1600	Regist Repor Schem  Intary Scho Irave Avenu  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Total S  Econor Contr  Airflow	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page: Je Date Prepared:  O5  HP Unit²  BHP System Design (B)HP:  nizer Designe ols:  O5  HP Unit²  BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page:  t Version: 2019.1.00 na Version: 2019.1.00 na Version: rev 2020  ol Report Page:  t Version: 2019.1.00 na Version: 2	0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  CALIFOR  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop California  CALIFOR  Reg Report Ger  CALIFOR  System Fan Type:  07	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Presented: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Constant Volume  08  Adjustment - Table 140.4-B  Adjustment - Table 140.4-B  Constant Volume  08  Adjustment - Table 140.4-B  Adjustment - Table 140.4-B
Registration Num CA Building Ener ATE OF CALIFORN Mechanical RCC-MCH-E ERTIFICATE OF C Toject Address:  I. FAN SYSTEN System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste  System Name:  O1 Ian Name or Item Tag SF Total Syste	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Econo  02 Fan Function  Supply em Design Supply Airflow (Compensation)  AC-E2 Economy  Supply em Design Supply Airflow (Compensation)  Supply	Nonreside    Nonreside   Nonreside   Nonreside   Nonreside   Nonreside   Nonreside   Nonreside   Nonreside   Nonreside   Nonreside	Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600 1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600 1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600  NA: <=54 kBtu/h cooling  O4  Maximum Design Supply (CFM)  1600  1600	Regist Repor Schem  Intary Scho Irave Avenu  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Total S  Econor Contr  Airflow  Total S  Econor Contr  Airflow	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 ha Version: rev 2020  ol Report Page: de Date Prepared:  Designe ols:  O5  HP Unit²  BHP System Design (B)HP: nizer Designe ols:  O5  HP Unit²  BHP System Design (B)HP: nizer Designe ols:  O5  HP Unit²  BHP System Design (B)HP: nizer Designe ols:  O5  HP Unit²  BHP System Design (B)HP: nizer Designe ols:  O5  HP Unit²  BHP System Design (B)HP: nizer Designe ols:  O5  HP Unit²  BHP System Design (B)HP: nizer Designe ols:  O5  HP Unit²  BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 ha Version: rev 2020  ol Report Page: de Date Prepared:	0.79 0.79 0.79 0.79 0.60 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.7	Device  NA  Maximum System Fan Power (B)HP:  CALIFOR  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop California  CALIFOR  Reg Report Ger  CALIFOR  System Fan Type:  07	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Presented: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  08  Adjustment - Table 140.4-B  Osa  Constant Volume  08  Adjustment - Table 140.4-B  Osa  Constant Volume  08
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Registration Num CA Building Ener ATE OF CALIFORN Alechanical RCC-MCH-E ERTIFICATE OF Croject Name: roject Address:  I. FAN SYSTEM Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF Total System Name: 01 Ian Name or Item Tag SF	Supply em Design Supply Airflow (Comber: rgy Efficiency Standards - 2019  IIA I Systems  COMPLIANCE  MS & AIR ECONOMIZERS  AC-D5 Econo  02 Fan Function  Supply em Design Supply Airflow (Compensed on the compensed on the compens	Nonreside   Semizer:	Munsey Eleme 3801 B  Munsey Eleme 3801 B  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600 NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600 NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply (CFM) 1600 1600  NA: <=54 kBtu/h cooling 04  Maximum Design Supply O4  Maximum Design Supply	Regist Repor Schem  Intary Scho Intary Sch	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page: de Date Prepared:  Designe ols:  O5  HP Unit²  BHP System Design (B)HP: nizer ols:  O5  HP Unit²  BHP System Design (B)HP: nizer ols:  O5  HP Unit²  BHP System Design (B)HP: nizer ols:  O5  HP Unit²  BHP System Design (B)HP: nizer ols:  O5  HP Unit²  BHP System Design (B)HP: nizer ols:  O5  HP Unit²  BHP System Design (B)HP: Tation Date/Time:  t Version: 2019.1.00 na Version: rev 2020  ol Report Page: Designe ols:  O5  HP Unit²  BHP System Design (B)HP: To Designe ols:  O5  HP Unit²  BHP System Design (B)HP: To Designe ols:  O5  HP Unit²  BHP System Design (B)HP: To Designe ols:  O5  HP Unit²  BHP System Design (B)HP: The System Design (B)HP: The System Design (B)HP: The System Design O5  HP Unit²  BHP System Design O5  HP Unit²  BHP System Design O5  HP Unit²	0.79 0.79 0.79 0.79 0.79 0.6 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOR  CALIFOR  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Presented: 2022-10-18 15:23:50  RNIA ENERGY COMMISSION NRCC-MCH-E (Page 11 of 42) 10/18/2022  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA
Registration Num CA Building Ener ATE OF CALIFORN Mechanical RCC-MCH-E ERTIFICATE OF C Toject Name: Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag SF Total System Name: O1 Ian Name or Item Tag	Supply em Design Supply Airflow (Compliance  MS & AIR ECONOMIZERS  AC-D5 Econo  O2  Fan Function  Supply em Design Supply Airflow (Compliance)  AC-E1 Econo  O2  Fan Function  Supply em Design Supply Airflow (Compliance)  Fan Function  Supply em Design Supply Airflow (Compliance)  AC-E2 Econo  O2  Fan Function  Supply em Design Supply Airflow (Compliance)  Fan Function  Supply em Design Supply Airflow (Compliance)  AC-E3 Econo  O2  Fan Function  Supply em Design Supply Airflow (Compliance)  AC-E4 Econo  O2  Fan Function  Supply em Design Supply Airflow (Compliance)	Nonreside   Smizer:1	(CFM)   1600	Regist Repor Schem  Intary Scho Intary Sch	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 ha Version: rev 2020  ol Report Page: de Date Prepared:  Designe ols:  O5  HP Unit²  BHP System Design (B)HP: nizer Design	0.79 0.79 0.79 0.79 0.60 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.7	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOR  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP: System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP: System Fan Type:	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft Page 11 of 42)  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume  O8  Adjustment - Table 140.4-B  Design Airflow through Device (CFM)  NA  Constant Volume
Registration Num CA Building Ener RATE OF CALIFORN Alechanical RCC-MCH-E ERTIFICATE OF C roject Address:  I. FAN SYSTEN System Name:  01 Gan Name or Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste  Registration Num CA Building Ener  RATE OF CALIFORN Alechanical RCC-MCH-E ERTIFICATE OF C ROJECT Name: REGISTRATION OF Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste  System Name:  01 Gan Name or Item Tag SF Total Syste System Name:  01 Gan Name or Item Tag SF Total Syste	Supply em Design Supply Airflow (Competition of Competition of Com	Nonreside   Section   Se	(CFM)   1600	Regist Repor Schem  Intary Scho Intary Sch	BHP System Design (B)HP:  ration Date/Time:  t Version: 2019.1.00 ha Version: rev 2020  ol Report Page: de Date Prepared:  Designe ols:  Desig	0.79 0.79 0.79 0.79 0.60 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.7	Device  NA  Maximum System Fan Power (B)HP:  Reg Report Ger  CALIFOR  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type:  07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP:  System Fan Type: 07 Fan Power Pressure Drop Device  NA  Maximum System Fan Power (B)HP: System Fan Type: 07 Fan Power Pressure Drop Device	Design Airflow through Device (CFM)  NA  istration Provider: Energysoft

Project Name: Project Address:	COMPLIANCE								CALIFORNIA EN	ERGY CON
				· · · · · · · · · · · · · · · · · · ·	lementary School 301 Brave Avenue					(Pa
	EM SUMMARY (D			MS) ge Terminal Air Conditio	oners (PTAC) and	l Package Termina	al Heat Pumps (PTH	P))		
01		02		03	04	05 ting Mode	06	07	08 Cooling Mode	
Name or Item Tag	Si	ze Catego (Btu/h)	ry	Rating Condition	Efficiency Unit		Design Efficiency	Efficiency Unit	Minimum Efficiency Required per	Design
AC-A1 to AC-A	4	<65,000		( °F)	HSPF	Tables 110.2 / Title 20	8.3	SEER	Tables 110.2 / Title 20 13.0	1
AC-A5 IDU-ODU-A1		<65,000 <65,000			HSPF HSPF	7.7 8.2	8.3 10.3	SEER SEER	13.0 14.0	1
AC-C1 AC-C2		<65,000 <65,000			HSPF	7.7	8.3 8.3	SEER SEER	13.0	1
AC-C3 IDU-ODU-C1 AC-C4		<65,000 <65,000			HSPF HSPF	7.7 8.2 7.7	8.3 10.3 8.3	SEER SEER SEER	13.0 14.0 13.0	1
AC-C5 AC-D1		<65,000 <65,000			HSPF HSPF	7.7	8.3 8.3	SEER SEER	13.0	1
AC-D2 AC-D3		<65,000 <65,000			HSPF HSPF	7.7	8.3 8.3	SEER SEER	13.0 13.0	1
AC-D4		<65,000 <65,000			HSPF	7.7	10.3	SEER SEER	14.0	1
AC-D5 AC-E1 AC-E2		<65,000 <65,000			HSPF HSPF HSPF	7.7 7.7 7.7	8.3 8.3 8.3	SEER SEER SEER	13.0 13.0 13.0	1 1
AC-E3 AC-E4		<65,000 <65,000			HSPF HSPF	7.7	8.3 8.3	SEER SEER	13.0	1 1
AC-E5		<65,000			HSPF	7.7	8.3	SEER	13.0	1
STATE OF CALIFORN Mechanica NRCC-MCH-E CERTIFICATE OF C Project Name: Project Address:	l Systems				lementary School 301 Brave Avenue				CALIFORNIA EN	ERGY CON NF (Pa
G. PUMPS This section doe	es not apply to this	project.								
	MS & AIR ECONO	BOARD SEE SEE SEE SEE				(1.0.20.4()	101101/110			
	ese requirements a	nd do not	need to	escriptive requirements be included in Table H.	Economia		oer <u>§140.4(m)</u> for fan	1		
Name: 01	AC-A1 to AC-A4 02	Econon	03	Fixed Temperature	Controls		(m) 06	System Fan T		nstant Vo 08
Fan Name or Item Tag	Fan Function	n	Qty	Maximum Design Su (CFM)	pply Airflow	HP Unit <sup>2</sup>	Design HP	Fan Power Pressu Device	Desig	ent - Tabl n Airflow Device (CF
SF	Supply		4	8000	Total Sys	BHP stem Design	1.19	NA Maximum Syste		NA NA
System	em Design Supply A  AC-A5	Econon		8000 Fixed Temperature	Economiz	B)HP: Designed p	4.76 per <u>§140.4(e)</u> and	Power (B)F		nstant Vo
Name: 01	110710	Leonon		, mea remperature	Controls	s:	(m)	-,		
	02		03	04		05	06	07		08
Fan Name or Item Tag	02 Fan Function	n	03 Qty	04 Maximum Design Su (CFM)	pply Airflow	05  HP Unit <sup>2</sup>	06 Design HP	07 Fan Power Pressu Device	ure Drop Adjustm	08
Fan Name or Item Tag	***		Qty 1	Maximum Design Su	Total Sys			Fan Power Pressu	re Drop Adjustm Desig	08 ent - Tabl n Airflow
Fan Name or Item Tag  SF  Total Syste	Fan Function Supply em Design Supply A	irflow (CFI	Qty  1 M):	Maximum Design Suj (CFM) 2000 2000	Total Sys (E Registrat	HP Unit <sup>2</sup> BHP  stem Design	Design HP  1.19  1.19	Fan Power Pressu Device NA Maximum Syste Power (B)H	re Drop Adjustm Desig	08 ent - Table n Airflow Device (CF
Fan Name or Item Tag  SF  Total Syste  Registration Nur  CA Building Ener  STATE OF CALIFORN <b>Mechanica</b>	Fan Function Supply em Design Supply A mber: rgy Efficiency Standar	irflow (CFI	Qty  1 M):	Maximum Design Suj (CFM) 2000 2000	Total Sys (E Registrat	BHP stern Design B)HP:  ion Date/Time: ersion: 2019.1.003	Design HP  1.19  1.19	Fan Power Pressu Device NA Maximum Syste Power (B)H	Registration	08 ent - Tabl n Airflow Device (CF NA
Fan Name or Item Tag  SF  Total Syste  Registration Nur  CA Building Ener  STATE OF CALIFORN  Mechanica  NRCC-MCH-E  CERTIFICATE OF C  Project Name:	Fan Function Supply em Design Supply A  mber: rgy Efficiency Standar	irflow (CFI	Qty  1 M):	Maximum Design Superior (CFM) 2000 2000  antial Compliance	Registrat Report V Schema V	HP Unit <sup>2</sup> BHP  stem Design B)HP:  ion Date/Time: ersion: 2019.1.003 Version: rev 2020060	Design HP  1.19  1.19	Fan Power Pressu Device NA Maximum Syste Power (B)H	Desig [ em Fan HP:	08 ent - Table n Airflow Device (CF  NA  Provider: E 2022-10-18  ERGY COM  NR (Pa
Fan Name or Item Tag  SF  Total Syste  Registration Nur  CA Building Ener  STATE OF CALIFORN  Mechanica  NRCC-MCH-E  CERTIFICATE OF C  Project Name:  Project Address:	Fan Function Supply em Design Supply A  mber: rgy Efficiency Standar  I Systems  COMPLIANCE	ds - 2019 N	Qty  1 M):	Maximum Design Superior (CFM) 2000 2000  antial Compliance	Registrat Report V	HP Unit <sup>2</sup> BHP  stem Design B)HP:  ion Date/Time: ersion: 2019.1.003 Version: rev 2020060	Design HP  1.19  1.19	Fan Power Pressu Device NA Maximum Syste Power (B)H	Registration	08 ent - Table n Airflow Device (CF  NA  Provider: E 2022-10-18  ERGY CON
Fan Name or Item Tag  SF  Total Syste  Registration Nur  CA Building Ener  STATE OF CALIFORN  Mechanica  NRCC-MCH-E  CERTIFICATE OF C  Project Name:  Project Address:	Fan Function Supply em Design Supply A  mber: rgy Efficiency Standar  I Systems  COMPLIANCE  MS & AIR ECONO  IDU-ODU-A1	ds - 2019 N	Qty  1  M):	Maximum Design Sur (CFM) 2000 2000  Munsey E 38	Registrat Report V Schema V	HP Unit <sup>2</sup> BHP  stem Design B)HP:  ion Date/Time: ersion: 2019.1.003 Version: rev 2020060  Report Page: Date Prepared:	Design HP  1.19  1.19  1.19  oer §140.4(e) and (m)	Fan Power Pressu  Device  NA  Maximum Syste Power (B)F	Registration Report Generated: 2	O8 ent - Tabl n Airflow Device (CF NA  Provider: E 2022-10-18  ERGY CON NF (Pa 1
Fan Name or Item Tag  SF  Total Syste  Registration Nur  CA Building Ener  STATE OF CALIFORN  Mechanica  NRCC-MCH-E  CERTIFICATE OF C  Project Name:  Project Address:  H. FAN SYSTEN  System	Fan Function Supply em Design Supply A  mber: rgy Efficiency Standar  I Systems  COMPLIANCE	ds - 2019 N	Qty  1 M):	Maximum Design Superior (CFM)  2000  2000  Munsey E  38	Registrat Report V Schema V Schema V Schema V Schema V Controls	HP Unit <sup>2</sup> BHP  stem Design B)HP:  ion Date/Time: ersion: 2019.1.003 Version: rev 2020060  Report Page: Date Prepared:	Design HP  1.19  1.19  oer §140.4(e) and	Fan Power Pressu  Device  NA  Maximum Syste Power (B)F	Registration Report Generated: 2  CALIFORNIA EN  Type: Course Drop Adjustm Desig	O8 ent - Table n Airflow Device (CF NA  Provider: E 2022-10-18  ERGY CON NR (Pa 1  nstant Vo 08 ent - Table n Airflow
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Fan Name or Item Tag  SF  Total Syste  Registration Nur  CA Building Ener  STATE OF CALIFORN  Mechanica  NRCC-MCH-E  CERTIFICATE OF C  Project Name:  Project Address:  H. FAN SYSTER  System Name:  01  Fan Name or Item Tag  SF  Total System Name:  01	Fan Function Supply em Design Supply A  mber: rgy Efficiency Standar  I Systems COMPLIANCE  MS & AIR ECONO IDU-ODU-A1 02 Fan Function Supply em Design Supply A	mirflow (CFI	Qty  1 M):  lonresider  03 Qty 1 M):	Maximum Design Sur (CFM)  2000  2000  2000  Munsey E  38  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  420  420  NA: <=54 kBtu/h cooli  04	Registrat Report V Schema V  Schema V  Beconomiz Controls  pply Airflow  Total Sys (E Controls  Controls  Controls  Controls  Controls  Controls  Controls	HP Unit <sup>2</sup> BHP  stem Design B)HP:  ion Date/Time:  ersion: 2019.1.003  Version: rev 2020060  Report Page: Date Prepared:  cer Designed p  the Unit <sup>2</sup> BHP  stem Design B)HP:  ter Designed p	Design HP  1.19  1.19  1.19  Oer §140.4(e) and (m)  06  Design HP  0.05  0.05	System Fan T  O7 Fan Power Pressu  Ovice  NA  Maximum System Power (B)H  System Fan T  O7 Fan Power Pressu  Device  NA  Maximum System Power (B)H	Registration Report Generated: 2  CALIFORNIA EN  Type: Co  ure Drop Adjustm Desig  function  Desig  function  CALIFORNIA EN  C	O8 ent - Tabl n Airflow Device (CF NA  Provider: E 2022-10-18  ERGY CON NR (Pa 1  nstant Vo 08 ent - Tabl n Airflow Device (CF NA  nstant Vo 08
Fan Name or Item Tag  SF  Total Syste  Registration Nur  CA Building Ener  STATE OF CALIFORN  Mechanica  NRCC-MCH-E  CERTIFICATE OF C  Project Address:  H. FAN SYSTEN  System  Name:  01  Fan Name or Item Tag  SF  Total System  Name:	Supply em Design Supply A  mber: rgy Efficiency Standar  I Systems  COMPLIANCE  MS & AIR ECONO  IDU-ODU-A1  02  Fan Function  Supply em Design Supply A  AC-C1	ds - 2019 N  MIZERS  Econom	Qty  1 M):  nizer:1 03 Qty 1 M): nizer:1	Maximum Design Sur (CFM)  2000  2000  Munsey E  38  NA: <=54 kBtu/h cooli  CFM)  420  420  NA: <=54 kBtu/h cooli	Registrat Report V Schema V  Schema V  Beconomiz Controls  pply Airflow  Total Sys (E Controls  Controls  Controls  Controls  Controls  Controls  Controls	HP Unit <sup>2</sup> BHP  stem Design B)HP:  ion Date/Time: ersion: 2019.1.003 Version: rev 2020060  Report Page: Date Prepared:  ter Designed p  the Unit <sup>2</sup> BHP  stem Design B)HP: ter Designed p  stem Design B)HP:	Design HP  1.19  1.19  1.19  Oer §140.4(e) and (m)  06  Design HP  0.05  0.05  Der §140.4(e) and (m)	System Fan T O7 Fan Power Pressu  O9 Maximum System  O7 Fan Power Pressu  Device  NA Maximum System  Power (B)F  System Fan T  O7  O7  O7	Registration Registration Report Generated: 2  CALIFORNIA EN  Type: Co  Tree Drop Adjustm  Desig	O8 ent - Tabl n Airflow Device (CF NA  Provider: E 2022-10-18  ERGY CON NR (Pa 1  nstant Vo 08 ent - Tabl n Airflow Device (CF NA  nstant Vo 08
Registration Nur CA Building Ener STATE OF CALIFORN Mechanica NRCC-MCH-E CERTIFICATE OF C Project Address: H. FAN SYSTEN System Name: 01 Fan Name or Item Tag SF Total Syste System Name: 01 Fan Name or Item Tag SF Total Syste System Name: 01 Fan Name or Item Tag SF System Name: 01 Fan Name or Item Tag SF System Name: 01 Fan Name or Item Tag SF System Name: 01 Fan Name or Item Tag	Supply em Design Supply A  mber: rgy Efficiency Standar  I Systems  COMPLIANCE  MS & AIR ECONO  IDU-ODU-A1  02  Fan Function  Supply em Design Supply A  AC-C1  02  Fan Function	MIZERS Econom	Qty  1 M):  Idonresider  Oty  1  Oty  1  Oty  1  Oty  1  Oty  1	Maximum Design Sur (CFM)  2000  2000  2000  Munsey E  38  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  420  420  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)	Registrat Report V Schema V  Schema V  Schema V  Report V Schema	HP Unit <sup>2</sup> BHP  Item Design B)HP:  Ion Date/Time:  Ion Date/T	Design HP  1.19  1.19  1.19  1.00  Design HP  0.05  0.05  Design HP  0.05  0.05  Design HP	System Fan T  O7 Fan Power Pressu  Device  NA  Maximum Syste Power (B)F  System Fan T  O7 Fan Power Pressu  Device  NA  Maximum Syste Power (B)F  System Fan T  O7 Fan Power Pressu	Registration Registration Report Generated: 2  CALIFORNIA EN  Type: Co  Jure Drop Adjustm  Desig  Em Fan  HP:  Type: Co  Jure Drop Adjustm  Desig  Em Fan  HP:  Type: Co  Jure Drop Adjustm  Desig  Em Fan  HP:  Type: Co  Jure Drop Adjustm  Desig  Em Fan  HP:  Type: Co  Jure Drop Adjustm  Desig  Em Fan  HP:  Type: Co  Jure Drop Adjustm  Desig  Em Fan  HP:  Type: Co	Provider: E Provid
Fan Name or Item Tag  SF  Total Syste  Registration Nur CA Building Ener  STATE OF CALIFORN Mechanica NRCC-MCH-E CERTIFICATE OF C Project Address:  H. FAN SYSTEN System Name:  01  Fan Name or Item Tag  SF  Total Syste Name:  01  Fan Name or Item Tag  SF  Total Syste Name:  01  Fan Name or Item Tag  SF  Total Syste System Name:  01  Fan Name or Item Tag  SF  Total Syste System Name:  01  Fan Name or Item Tag  SF  Total Syste System Name:	Tan Function Supply Tem Design Supply A The	MIZERS Econom	Qty  1 M):  Idonresider  Dizer:  03 Qty 1 M):  Dizer:  MM:  Dizer:  Oxidation of the property	Maximum Design Sur (CFM)  2000  2000  2000  Munsey E  38  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  420  420  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  1600  1600  NA: <=54 kBtu/h cooli	Registrat Report V Schema V Sc	HP Unit <sup>2</sup> BHP  stem Design B)HP:  ion Date/Time:  ersion: 2019.1.003  Version: rev 2020060  Report Page: Date Prepared:  ter Designed ps:  05 HP Unit <sup>2</sup> BHP stem Design B)HP:  ter Designed ps:  05 HP Unit <sup>2</sup> BHP stem Design B)HP:  ter Designed ps:  05 HP Unit <sup>2</sup> BHP stem Design B)HP:  ter Designed ps:  05 HP Unit <sup>2</sup> BHP stem Design B)HP:  ter Designed ps:	Design HP  1.19  1.19  1.19  1.19  01  Der §140.4(e) and (m)  06  Design HP  0.05  0.05  Der §140.4(e) and (m)  06  Design HP  0.79  0.79  Der §140.4(e) and (m)	Fan Power Pressu  Device  NA  Maximum Syste Power (B)F  System Fan T  07  Fan Power Pressu  Device  NA  Maximum Syste Power (B)F  System Fan T  07  Fan Power Pressu  Device  NA  Maximum Syste Power (B)F  System Fan T  System Fan T  O7  Fan Power Pressu  Device  NA  Maximum Syste Power (B)F  System Fan T	Registration Registration Report Generated: 2  CALIFORNIA EN  Type: Co  Ire Drop Adjustm Desig  Image: Desig  Imag	O8 ent - Tabl n Airflow Device (CF NA  Provider: E 2022-10-18  ERGY CON NF (Pa 1  nstant Vo 08 ent - Tabl n Airflow Device (CF NA  nstant Vo 08 ent - Tabl n Airflow Device (CF NA  nstant Vo
Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SYstem Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag  SF  Total System Name:  O1  Fan Name or Item Tag	Fan Function Supply Em Design Supply A  The supply and a supply A  The supp	MIZERS Econom  irflow (CFI  Econom  crifflow (CFI  Econom	Qty  1 M):  nizer:1 03 Qty 1 M): nizer:1 03 Qty 1 M):	Maximum Design Sur (CFM)  2000  2000  2000  Munsey E  38  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  420  420  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  1600  1600  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  1600  1600  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)	Registrat Report V Schema V Sc	HP Unit <sup>2</sup> BHP  stem Design B)HP:  ion Date/Time:  ersion: 2019.1.003  Version: rev 2020060  Report Page: Date Prepared:  cer Designed ps:  05  HP Unit <sup>2</sup> BHP  stem Design B)HP:  ter Designed ps:  05  HP Unit <sup>2</sup> BHP  stem Design B)HP:  ter Designed ps:  05  HP Unit <sup>2</sup> BHP  stem Design B)HP:  ter Designed ps:  05  HP Unit <sup>2</sup> BHP  stem Design B)HP:  ter Designed ps:  cer Designed ps:  des	Design HP  1.19  1.19  1.19  1.19  Der §140.4(e) and (m)  06  Design HP  0.05  0.05  Der §140.4(e) and (m)  06  Design HP  0.79  0.79  Der §140.4(e) and (m)	Fan Power Pressul  Device  NA  Maximum Syste Power (B)F  System Fan T  07  Fan Power Pressul  Device  NA  Maximum Syste Power (B)F  System Fan T  07  Fan Power Pressul  Device  NA  Maximum Syste Power (B)F  System Fan T  07  Fan Power Pressul  Device	Registration Registration Report Generated: 2  CALIFORNIA EN  Type: Co  Irre Drop Adjustm Desig If  Irre Drop Adjustm Irre Drop Adjustm Irre Drop Adjustm Irre Drop Adjustm	O8 ent - Tabl n Airflow Device (CF NA  Provider: E 2022-10-18  ERGY CON NF (Pa 1  nstant Vo 08 ent - Tabl n Airflow Device (CF NA  nstant Vo O8 ent - Tabl n Airflow Device (CF NA  n Airflow Device (CF NA  n Airflow Device (CF NA
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Registration Nur CA Building Ener STATE OF CALIFORN Mechanica NRCC-MCH-E CERTIFICATE OF C Project Address: H. FAN SYSTER System Name: 01 Fan Name or Item Tag SF Total Syste Name: 01 Fan Name or Item Tag SF Total Syste System Name: 01 Fan Name or Item Tag SF Total Syste System Name: 01 Fan Name or Item Tag SF Total Syste System Name: 01 Fan Name or Item Tag SF Total Syste System Name: 01 Fan Name or Item Tag SF Total Syste System Name: 01 Fan Name or Item Tag SF Total Syste System Name: 01 Fan Name or Item Tag SF	Supply em Design Supply A  AC-C1  O2  Fan Function  Supply  Pan Design Supply A  AC-C1  O2  Fan Function  Supply  Pan Design Supply A  AC-C1  O2  Fan Function  Supply  Pan Design Supply A  AC-C2  O2  Fan Function	MIZERS Econom  irflow (CFI Econom  cirflow (CFI Econom	Qty  1 M):  Idonresider  Idonre	Maximum Design Sur (CFM)  2000  2000  2000  Munsey E  38  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  420  420  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  1600  1600  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)	Registrat Report V Schema V  Schema V  Schema V  Report V Schema V Sch	HP Unit <sup>2</sup> BHP  stem Design B)HP:  lon Date/Time:  ersion: 2019.1.003  version: rev 2020060  Report Page:  Date Prepared:  ter Designed positions B)HP:  te	Design HP  1.19  1.19  1.19  1.19  1.19  1.19  Design HP  0.05  0.05  Design HP  0.79  0.79  0.79  Design HP  0.66  Design HP  0.79  0.79  Design HP	Fan Power Pressul  Device  NA  Maximum Syste Power (B)F  System Fan T  07  Fan Power Pressul  Device  NA  Maximum Syste Power (B)F  System Fan T  07  Fan Power Pressul  Device  NA  Maximum Syste Power (B)F  System Fan T  07  Fan Power Pressul  Device	Registration Registration Report Generated: 2  CALIFORNIA EN  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co	Provider: E Provid
Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  System Name: O1  Fan Name or Item Tag  SF  Total Syste  Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag	Supply em Design Supply A  I Systems  COMPLIANCE  MS & AIR ECONO  IDU-ODU-A1  02  Fan Function  Supply em Design Supply A  AC-C1  02  Fan Function  Supply em Design Supply A  AC-C2  02  Fan Function  Supply em Design Supply A  AC-C2  02  Fan Function  Supply em Design Supply A	mirflow (CFI  MIZERS  Econon  irflow (CFI  Econon  irflow (CFI  irflow (CFI  irflow (CFI  irflow (CFI  irflow (CFI  irflow (CFI  irflow (CFI	Qty  1 M):  Ionresider  Oty  1 M):  Mizer:  Oty  1 M):  Mixer:  Oty  1 M):  Oty  1 M):  Oty  1 M):  Oty  1 M):	Maximum Design Sur (CFM)  2000  2000  2000  Munsey E  38  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  420  420  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  1600  1600  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  1600  1600  1600	Registrat Report V Schema V  Schema V  Report V Schema V  Report V Schema V  Report V Schema V  Report V Schema V  Report V Schema V  Report V Schema V  Total Sys (E Controls  Poply Airflow  Total Sys (E Controls  Poply Airflow  Total Sys (E Registrat Report V Registrat Report V	HP Unit <sup>2</sup> BHP  stem Design B)HP:  lion Date/Time:  ersion: 2019.1.003  Version: rev 2020060  Report Page: Date Prepared:  2er Designed ps: 05 HP Unit <sup>2</sup> BHP stem Design B)HP: 2er Designed ps: 05 HP Unit <sup>2</sup> BHP stem Design B)HP: 2er Designed ps: 05 HP Unit <sup>2</sup> BHP stem Design B)HP: 2er Designed ps: 05 HP Unit <sup>2</sup> BHP stem Design B)HP: 2er Designed ps: 2er Designed ps: 3er Design	Design HP  1.19  1.19  1.19  1.19  1.19  1.19  01  01  0er §140.4(e) and (m)  06  Design HP  0.05  0.05  0er §140.4(e) and (m)  06  Design HP  0.79  0.79  0.79  0.79  0.79  0.79	Fan Power Pressure Device  System Fan T  O7  Fan Power Pressure Device  NA  Maximum Syster Power (B)H  System Fan T  O7  Fan Power Pressure Device  NA  Maximum Syster Power (B)H  System Fan T  O7  Fan Power Pressure Device  NA  Maximum Syster Power (B)H  System Fan T  O7  Fan Power Pressure Device  NA  Maximum Syster Power (B)H	Registration Registration Report Generated: 2  CALIFORNIA EN  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co  Jure Drop Adjustm Desig Lem Fan JP:  Type: Co	Provider: E
Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  System Name: O1  Fan Name or Item Tag  SF  Total Syste  Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag  SF  Total System Name: O1  Fan Name or Item Tag	Fan Function Supply em Design Supply A  I Systems  COMPLIANCE  MS & AIR ECONO  IDU-ODU-A1  02  Fan Function Supply em Design Supply A  AC-C1  02  Fan Function Supply em Design Supply A  AC-C2  02  Fan Function Supply em Design Supply A  AC-C2  02  Fan Function Supply em Design Supply A  AC-C2  03  Fan Function Supply em Design Supply A  AC-C2  04  Tan Function Supply em Design Supply A  AC-C2  05  Fan Function Supply em Design Supply A  AC-C2	mirflow (CFI  MIZERS  Econon  irflow (CFI  Econon  irflow (CFI  irflow (CFI  irflow (CFI  irflow (CFI  irflow (CFI  irflow (CFI  irflow (CFI	Qty  1 M):  Ionresider  Oty  1 M):  Mizer:  Oty  1 M):  Mixer:  Oty  1 M):  Oty  1 M):  Oty  1 M):  Oty  1 M):	Maximum Design Sur (CFM)  2000  2000  2000  Munsey E  38  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  420  420  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  1600  1600  NA: <=54 kBtu/h cooli  04  Maximum Design Sur (CFM)  1600  1600  1600	Registrat Report V Schema V  Schema V  Report V Schema V  Report V Schema V  Report V Schema V  Report V Schema V  Report V Schema V  Report V Schema V  Total Sys (E Controls  Poply Airflow  Total Sys (E Controls  Poply Airflow  Total Sys (E Registrat Report V Registrat Report V	HP Unit2  BHP  stem Design B)HP:  ion Date/Time: ersion: 2019.1.003 Version: rev 2020060  Report Page: Date Prepared:  cer Designed ps:  D5  HP Unit2  BHP stem Design B)HP: cer Designed ps:  05  HP Unit2  BHP stem Design B)HP: cer Designed ps:  05  HP Unit2  BHP stem Design B)HP: cer Designed ps:  05  HP Unit2  BHP stem Design B)HP: cer Designed ps:  05  HP Unit2  BHP stem Design B)HP: cer Designed ps:  05  HP Unit2  BHP stem Design B)HP: cer Designed ps:  05  HP Unit2  BHP stem Design B)HP: cer Designed ps:  05  HP Unit2  BHP stem Design B)HP: cer Designed ps:  05  HP Unit2  BHP stem Design B)HP: cer Designed ps:  05  HP Unit2	Design HP  1.19  1.19  1.19  1.19  1.19  1.19  01  01  0er §140.4(e) and (m)  06  Design HP  0.05  0.05  0er §140.4(e) and (m)  06  Design HP  0.79  0.79  0.79  0.79  0.79  0.79	Fan Power Pressure Device  System Fan T  O7  Fan Power Pressure Device  NA  Maximum Syster Power (B)H  System Fan T  O7  Fan Power Pressure Device  NA  Maximum Syster Power (B)H  System Fan T  O7  Fan Power Pressure Device  NA  Maximum Syster Power (B)H  System Fan T  O7  Fan Power Pressure Device  NA  Maximum Syster Power (B)H	Registration  CALIFORNIA EN  CALIFOR	Provider: E

Item Tag

Registration Number:

Registration Provider: Energysoft

Report Generated: 2022-10-18 15:23:50

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Generated: 2022-10-18 15:23:50

Supply

Fan Function

Supply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Total System Design Supply Airflow (CFM):

AC-C4 Economizer:<sup>1</sup> NA: <=54 kBtu/h cooling

Maximum Design Supply Airflow

(CFM)

1600

1600

Total System Design Supply Airflow (CFM):

Project Address:				01 Brave Avenue					10/18/2022		sized to demonstrate compile \$140.4, or \$141.0(b)2 for alte		ry School Report Page		pplication ar	na are aem	onstrating co	mpliance us		Page 1 of 42
	M SUMMARY (DRY & WET	3.5		<b>/</b>						Project Address:			Avenue Date Prepar							10/18/202
01	pment Efficiency (other than 02	Package Tern	03	04	05	06	P)) 07	08	09	A. GENERAL IN 01 Project Loca	tion (city)	Bakersfield	The state of the s		ed Floor Area	****		1	19724	
Name or Item	Size Category	,	Rating	Hea	Minimum Efficiency			Cooling Mode  Minimum  Efficiency		02 Climate Zone 03 Occupancy	ypes Within Project:	13			oned Floor A bitable Abov				0	
Tag	(Btu/h)	<u>,                                    </u>		Efficiency Unit		Design Efficiency	Efficiency Unit	Required per Tables 110.2 /	Design Efficiency	☐ Office (B) ☐ Hotel/ Mote	l Guest Rooms (R-1)	Retail (M) School (E)		-refrigerated Ithcare Facili	d Warehouse ity (I)	e (S)				
AC-A1 to AC-A4	<65,000			HSPF	7.7	8.3	SEER	Title 20 13.0	16.2		sidential (R-2/R-3)	☐ Relocatable Class Bldg (E)	⊠ Oth	er (write in)				See	e Table J	
AC-A5 IDU-ODU-A1	<65,000 <65,000			HSPF HSPF	7.7 8.2	8.3 10.3	SEER SEER	13.0 14.0	16.2 20		es mechanical systems or com	nponents that are within the scope of t	he permit application	on and are d	lemonstratin	ng complian	nce using the	prescriptive	path outlir	ned in
AC-C1 AC-C2	<65,000 <65,000			HSPF HSPF	7.7 7.7	8.3 8.3	SEER SEER	13.0 13.0	16.2 16.2	<u>§140.4</u> , or <u>§141.</u>	O(b)2 for alterations.  01		02					03		
AC-C3	<65,000 <65,000			HSPF HSPF	7.7 8.2	8.3 10.3	SEER SEER	13.0 14.0	16.2 20		Air System(s) ing Air System	☐ Water Eco	System Component nomizer	ts			r Economizei		ents	
AC-C4 AC-C5	<65,000 <65,000			HSPF HSPF	7.7	8.3 8.3	SEER SEER	13.0 13.0	16.2 16.2	Cool	ing Air System  Mechanical Controls	Pumps  System Pi	oing			☐ Ele	ectric Resista n Systems	nce Heat		
AC-D1 AC-D2	<65,000 <65,000			HSPF HSPF	7.7	8.3 8.3	SEER SEER	13.0 13.0	16.2 16.2	⊠ Mec or ne	hanical Controls (existing to reew)	Cooling to	owers					sting to rema	in, altered	or new)
AC-D3	<65,000 <65,000			HSPF	7.7	8.3	SEER SEER	13.0 14.0	16.2			Chillers  Boilers					entilation onal Systems/	/ Terminal Bo	oxes	
AC-D4 AC-D5	<65,000 <65,000			HSPF HSPF	7.7	8.3	SEER SEER	13.0 13.0	16.2											
AC-E1	<65,000 <65,000			HSPF	7.7	8.3	SEER SEER	13.0	16.2											
AC-E3 AC-E4	<65,000 <65,000			HSPF	7.7	8.3 8.3	SEER SEER	13.0	16.2											
AC-E5	<65,000			HSPF	7.7	8.3	SEER	13.0	16.2											
Registration Numb	ber: gy Efficiency Standards - 2019 Noi	nresidential Co	ompliance	Report V	tion Date/Time: /ersion: 2019.1.003 Version: rev 202006	01	ı		Provider: Energysoft 2022-10-18 15:23:50	Registration Num	ber: y Efficiency Standards - 2019 No	onresidential Compliance	Registration Date/Tin Report Version: 2019 Schema Version: rev	.1.003			Rep	Registratio	ion Provider: ed: 2022-10-1	
STATE OF CALIFORNIA  Mechanical										STATE OF CALIFORNIA  Mechanical										
NRCC-MCH-E  CERTIFICATE OF CO								CALIFORNIA EN	ERGY COMMISSION  NRCC-MCH-E	NRCC-MCH-E  CERTIFICATE OF CO								CALIFORNIA I		OMMISSION
Project Name: Project Address:			· · · · · · · · · · · · · · · · · · ·	ementary School 01 Brave Avenue					(Page 6 of 42) 10/18/2022	Project Name: Project Address:		<u> </u>	ry School <b>Report Page</b> e Avenue <b>Date Prepa</b>							Page 2 of 42 10/18/202
G. PUMPS										C. COMPLIANC	E RESULTS									
	not apply to this project.									Table C will indic	ate if the project data input ir	nto the compliance document is compl I Conditions" refer to Table D., or the to					litable by the	user. If this	table says '	"DOES
	IS & AIR ECONOMIZERS	with prescript	tive requirements f	found in §140.4	(c), §140.4(e) and	l <u>§140.4(</u> m) for fan	systems. Fan syste	ems servina only n	process loads are	01 System	02	03 04 System	05	06		07		08	(	09
exempt from thes	se requirements and do not not not not not not not not not no	eed to be incl		Economiz		per <u>§140.4(e)</u> and	System Fan		enstant Volume	Summary 8110.1,	ND Pumps AND Ecor	nomizers AND Controls §110.2,	Ventilation AND §120.1	Controls	AND	3120.3	AND CO	oling Towers		nce Result
Name:	02	03	04	Controls	o5	(m) 06	07	туре.	08	§110.2, §140.4 (See Table F)	<u>§1</u> .	40.4(e) §120.2, §140.4(f)	(See Table J)	§140.4(d) (See Table		§140.4(I) ee Table L)		ee Table M)		
Fan Name or Item Tag	Fan Function	Qty Max	ximum Design Sup (CFM)	ply Airflow	HP Unit <sup>2</sup>	Design HP	Fan Power Press Device	Desig	ent - Table 140.4-B n Airflow through	Yes Al	ND AND	Yes AND Yes AND	Yes AND		AND	Yes	AND			MPLIES
SF	Supply	4	8000		ВНР	1.19	NA	1	Device (CFM)	D. EXCEPTIONA		landatory Measures Compliance (See	lable Q for Details)				COMPLIES			
Total System	n Design Supply Airflow (CFM	):	8000		stem Design B)HP:	4.76	Maximum Syst Power (B)					ents because of selections made or da	ta entered in tables	throughout	the form.					
System Name:	AC-A5 Economiz	zer:1 Fix	ixed Temperature	Economiz Controls		per <u>§140.4(e)</u> and (m)	System Fan	Туре: Со	enstant Volume	E. ADDITIONAL		is and it and the state of the								
01 	02	03	04	and a distinguish	05	06	07 Fan Power Press	ure Drop Adjustm	08 ent - Table 140.4-B	This table include	es remarks made by the perm	nit applicant to the Authority Having Ju	risdiction.							
Fan Name or Item Tag	Fan Function	Qty	ximum Design Sup (CFM)	oply Airtiow	HP Unit <sup>2</sup>	Design HP	Device		n Airflow through Device (CFM)											
SF	Supply n Design Supply Airflow (CFM	1	2000	Total Sys	BHP stem Design	1.19	Maximum Syst	em Fan	NA											
TATE OF CALIFORNIA  Mechanical :  NRCC-MCH-E  CERTIFICATE OF CO	Systems							CALIFORNIA EN	ERGY COMMISSION NRCC-MCH-E	STATE OF CALIFORNIA  Mechanical  NRCC-MCH-E  CERTIFICATE OF CO	Systems						C	California i	N	NRCC-MCH-
Project Name: Project Address:				ementary School 01 Brave Avenue					(Page 7 of 42) 10/18/2022	Project Name: Project Address:		<u></u>	ry School Report Page e Avenue Date Prepar							Page 3 of 42 10/18/202
H. FAN SYSTEM	IS & AIR ECONOMIZERS										и SUMMARY (DRY & WET	NT/A								
Name:	IDU-ODU-A1 Economiz		<=54 kBtu/h coolir	ng Controls	s:	per <u>§140.4(e)</u> and (m)	System Fan	Туре: Со	enstant Volume	<u>§140.4(b)</u> and <u>§</u>	140.4(k) or <u>§141.0(b)2</u> for al		**************************************			<u>10.2(a)</u> and	d prescriptive	requiremen	its found in	§140.4(a
01 Fan Name or	O2	03 Max	04 ximum Design Sup	oply Airflow	05	06	Fan Power Press		08 ent - Table 140.4-B	Dry System Equi	pment Sizing (includes air co 02	nditioners, condensers, heat pumps,	VRF, furnaces and u	nit heaters) 05	06	07	08	09	10	11
Item Tag	Fan Function	Qty	(CFM)		HP Unit <sup>2</sup>	Design HP	Device		n Airflow through Device (CFM)								§140.4 (a&b)	22		2.
SF Total System	Supply n Design Supply Airflow (CFM	1):	420		stem Design B)HP:	0.05	Maximum Syst Power (B)		NA.	Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Ti	Available*	Hea	ating Output	Supp.		Output <sup>2,3</sup>	Load Calcu Total	Total
System Name:	AC-C1 Economiz	**	<=54 kBtu/h coolir	Economi	zer Designed	per <u>§140.4(e)</u> and (m)	System Fan		enstant Volume				§140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Heating Output	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Heating Load	Sensible Cooling Load
Name: 01	02	03	04	Controls	05 05	(m) 06	07		08 ent - Table 140.4-B	AC-A1 to AC-A4	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per	138.66	55.5	(kBtu/h)	225.94	49.1	(kBtu/h) 263.53	(kBtu/h)
Fan Name or Item Tag	Fan Function	Qty Max	ximum Design Sup (CFM)	pply Airflow	HP Unit <sup>2</sup>	Design HP	Device	Desig	n Airflow through Device (CFM)	AC-A1 to AC-A4	Unitary Heat Pumps Unitary Heat Pumps	Air-cooled, pkg (3 phase)  Air-cooled, pkg (3 phase)	§141.0(b)2E NA: Altered per	34.66	55.5	0	53.33	49.1	42.92	61.81
SF	Supply	1	1600	Total	BHP	0.79	NA Maximum C		NA	IDU-ODU-A1	Unitary Heat Pumps	Air-cooled, split (1phase)	§141.0(b)2E NA: Altered per	11.24	18	0	13.63	11.2	36.84	33.31
	n Design Supply Airflow (CFM		1600	(E	stem Design B)HP:	0.79	Maximum Syst Power (B)	HP:		AC-C1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	§141.0(b)2E NA: Altered per §141.0(b)2E	28.42	45.5	0	42.58	36.9	92.38	85.07
System Name:	AC-C2 Economia	zer: <sup>1</sup> NA: <	<=54 kBtu/h coolir	ng Economiz Controls		oer <u>§140.4(e)</u> and (m)	System Fan '	Type: Co	onstant Volume	AC-C2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per §141.0(b)2E	28.42	45.5	0	42.43	36.9	73.72	70.41
Fan Name or	Fan Function		ximum Design Sup	pply Airflow	HP Unit <sup>2</sup>	Design HP	Fan Power Press	Desig	ent - Table 140.4-B In Airflow through	AC-C3	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per §141.0(b)2E	28.42	45.5	0	42.43	36.9	73.72	70.41
Item Tag SF	Supply	1	(CFM) 1600		BHP	0.79	Device NA		Device (CFM)	IDU-ODU-C1	Unitary Heat Pumps	Air-cooled, split (1phase)	NA: Altered per §141.0(b)2E	11.24	18	0	13.65	11.2	16.01	14.12
	n Design Supply Airflow (CFM	):	1600		stem Design B)HP:	0.79	Maximum Syst			AC-C4	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per §141.0(b)2E	28.42	45.5	0	42.43	36.9	73.72	70.41
I	•			(E	-μ.n.		Fower (B)			AC-C5	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per §141.0(b)2E	28.42	45.5	0	42.43	36.9	73.72	70.41
Registration Numb	ber:			Registrat	tion Date/Time:			Registration	Provider: Energysoft	Registration Num	ber:		Registration Date/Tin	ne:				Registrati	ion Provider:	Energysof
	gy Efficiency Standards - 2019 Noi	nresidential Co	ompliance	Report V	/ersion: 2019.1.003 Version: rev 202006	01	1		2022-10-18 15:23:50		y Efficiency Standards - 2019 No	onresidential Compliance	Report Version: 2019 Schema Version: rev	.1.003			Rep	oort Generate		-
Mechanical S	Systems							CALIFORNIA EN	ERGY COMMISSION	Mechanical NRCC-MCH-E	Systems							CALIFORNIA I		
CERTIFICATE OF CO	DMPLIANCE			ementary School					NRCC-MCH-E (Page 8 of 42)	CERTIFICATE OF CO	DMPLIANCE	<u></u>	ry School Report Page						(P:	Page 4 of 42
Project Address:			380	01 Brave Avenue	Date Prepared:				10/18/2022	Project Address:		3801 Brav	Avenue Date Prepar	red:						10/18/202
H. FAN SYSTEM	IS & AIR ECONOMIZERS	1	~_E41.p. "	Economia	zer Designed	per <u>§140.4(e)</u> and		T.ur -	material V. I		M SUMMARY (DRY & WET pment Sizing (includes air co	SYSTEMS) inditioners, condensers, heat pumps,	VRF, furnaces and	ınit heaters\						
Name:	AC-C3 Economiz	zer: <sup>1</sup> NA: <	<=54 kBtu/h coolir 04	Controls		(m) 06	System Fan '	rype: Co	onstant Volume 08	01	02	03	04 NA: Altered per	05	06	07	08	09	10	11
Fan Name or	Fan Function		ximum Design Sup	pply Airflow	HP Unit <sup>2</sup>	Design HP	Fan Power Press	Desig	ent - Table 140.4-B	AC-D1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per §141.0(b)2E NA: Altered per	28.42	45.5	0	42.58	36.9	92.38	85.07
Item Tag  SF	Supply	1	(CFM) 1600		BHP	0.79	Device NA		Device (CFM)	AC-D2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Altered per §141.0(b)2E NA: Altered per	28.42	45.5	0	42.43	36.9	73.72	70.41
	n Design Supply Airflow (CFM	):	1600		stem Design B)HP:	0.79	Maximum Syst Power (B)			AC-D3	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	§141.0(b)2E NA: Altered per	28.42	45.5	0	42.43	36.9	73.72	70.41
System Name:	IDU-ODU-C1 Economiz	zer:¹ NA: <	<=54 kBtu/h coolir	Economi	zer Designed	per <u>§140.4(e)</u> and (m)	System Fan		enstant Volume	AC-D4	Unitary Heat Pumps Unitary Heat Pumps	Air-cooled, split (1phase)  Air-cooled, pkg (3 phase)	§141.0(b)2E NA: Altered per	11.24 28.42	18 45.5	0	13.81	11.2 36.9	14.31 73.72	17.65 70.41
01	02	03	04		05	06	07 Fan Power Press	ure Drop Adiustm	08 lent - Table 140.4-B	AC-D4	Unitary Heat Pumps Unitary Heat Pumps	Air-cooled, pkg (3 phase)  Air-cooled, pkg (3 phase)	§141.0(b)2E NA: Altered per		45.5	0	42.43	36.9	73.72	70.41
Fan Name or Item Tag	Fan Function	Qty Max	ximum Design Sup (CFM)	pply Airflow	HP Unit <sup>2</sup>	Design HP	Device	Desig	n Airflow through Device (CFM)	AC-D5	Unitary Heat Pumps Unitary Heat Pumps	Air-cooled, pkg (3 phase)  Air-cooled, pkg (3 phase)	§141.0(b)2E NA: Altered per	28.42	45.5 45.5	0	42.43	36.9	92.38	85.07

Maximum System Fan

Power (B)HP:

System Fan Type:

Device

Power (B)HP:

n Power Pressure Drop Adjustment - Table 140.4-

BHP

HP Unit<sup>2</sup>

BHP

Total System Design (B)HP:

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

Design HP

0.79

0.79

Total System Design

Design Airflow through Device (CFM)

Registration Provider: Energysoft

Report Generated: 2022-10-18 15:23:50

AC-E1 Unitary Heat Pumps

§140.4(a). Healthcare facilities are excepted.

**Unitary Heat Pumps** 

**Unitary Heat Pumps** 

**Unitary Heat Pumps** 

**Unitary Heat Pumps** 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

AC-E2

AC-E3

AC-E4

AC-E5

Registration Number:

Air-cooled, pkg (3 phase)

<sup>3</sup> If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

<sup>4</sup> Authority Having Jurisdiction may ask for load calculations used for compliance per <u>§140.4(b)</u>.

<sup>2</sup>It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

<sup>1</sup>FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

STATE OF CALIFORNIA **Mechanical Systems** 

CERTIFICATE OF COMPLIANCE

IDENTIFICATION STAMP CALIFORNIA ENERGY COMMISSION DIV. OF THE STATE ARCHITEC APP: 03-122489 INC: This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive REVIEWED FOR SS 🛛 FLS 🖟 ACS 🗌 10/18/202 DATE: <u>07/27/2023</u> 19724 06 # of Stories (Habitable Above Grade)

Non-refrigerated Warehouse (S)

0 42.43 36.9 73.72 70.41

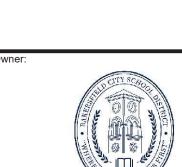
0 42.43 36.9 73.72 70.41

Registration Provider: Energysoft

Report Generated: 2022-10-18 15:23:50

 NA: Altered per §141.0(b)2E
 28.42
 45.5
 0
 42.43
 36.9
 73.72
 70.41

 NA: Altered per §141.0(b)2E
 28.42
 45.5
 0
 42.58
 36.9
 92.38
 85.07



**BAKERSFIELD CITY SCHOOL** 

**DISTRICT** 

1300 BAKER STREET FRESNO, CA. 93706

HVAC REPLACEMENT

Project Address: **MUNSEY ELEMENTARY** SCHOOL

3801 BRAVE AVENUE BAKERSFIELD, CA 93309



integrated designs

> by SOMAM, Inc. **ARCHITECTURE**

**ENGINEERING INTERIOR DESIGN** 

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

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Stamp: 32712 EXP. 6-30-4

Sheet Title:

TITLE 24 DOCS

5524

IRCC-MCH-E CERTIFICATE OF COM Project Name:	IPLIANCE		CALIFORNIA ENERGY CON  NF  Munsey Elementary School Report Page: (Page)
Project Address:			3801 Brave Avenue Date Prepared: 1
DISTRIBUTION	(DUCTWORK		In other unconditioned spaces
15 16		The scope of the	project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  project includes an existing duct system that is documented to have been previously sealed as confirmed through field veesting in accordance with procedures in the Reference Nonresidential Appendix NA2.
7400		ow apply to the follo	Il be sealed in acordance with the California Mechanical Code   lowing duct systems: AC-C4   Duct leakage testing triggered for these systems? No
11 12 13	No Yes Yes	Duct system prov	project includes only duct systems serving healthcare facilities  vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  tioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.
14	No	The <u>combined</u> su	urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors
			In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space
15			In other unconditioned spaces project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16 17	Yes	and diagnostic te	e project includes an existing duct system that is documented to have been previously sealed as confirmed through field ve esting in accordance with procedures in the Reference Nonresidential Appendix NA2.
The answers to the		ow apply to the follow	lowing duct systems: AC-C5 Duct leakage testing triggered for these systems? No e project includes only duct systems serving healthcare facilities
12	Yes Yes	The space condit	vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  tioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.
14	No		orface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the
			requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space
Registration Number			Registration Date/Time: Registration Provider: E
CA Building Energy E	Efficiency Standa	ards - 2019 Nonresidei	ential Compliance Report Version: 2019.1.003 Report Generated: 2022-10-18 Schema Version: rev 20200601
tate of california <b>Mechanical Sy</b> IRCC-MCH-E	ystems		CALIFORNIA ENERGY COM
CERTIFICATE OF COM Project Name:	IPLIANCE		Munsey Elementary School Report Page: (Pag
Project Address:			3801 Brave Avenue Date Prepared:
DISTRIBUTION	(DUCTWORK		In other unconditioned spaces
15 16		The scope of the and diagnostic te	project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  project includes an existing duct system that is documented to have been previously sealed as confirmed through field veesting in accordance with procedures in the Reference Nonresidential Appendix NA2.
		ow apply to the follo	Il be sealed in acordance with the California Mechanical Code  lowing duct systems:  AC-D1  Duct leakage testing triggered for these systems?  No
11 12 13	No Yes Yes	Duct system prov	project includes only duct systems serving healthcare facilities vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. tioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.
14	No	15%	urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors
			In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space
15			In other unconditioned spaces project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16 17	Yes	and diagnostic te	project includes an existing duct system that is documented to have been previously sealed as confirmed through field ve esting in accordance with procedures in the Reference Nonresidential Appendix NA2.  Il be sealed in acordance with the California Mechanical Code
		ow apply to the follo	lowing duct systems:  AC-D2  Duct leakage testing triggered for these systems?  No exproject includes only duct systems serving healthcare facilities
12 13	Yes Yes	The space condit	vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. tioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.
14	No	The <u>combined</u> su	ourface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the
			requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space
CA Building Energy E  TATE OF CALIFORNIA  Wechanical Sy  IRCC-MCH-E  EERTIFICATE OF COM	efficiency Standa	ards - 2019 Nonresidei	Schema Version: rev 20200601  CALIFORNIA ENERGY CON
TATE OF CALIFORNIA  Vechanical Sy  RCC-MCH-E  CERTIFICATE OF COM  Project Name:  Project Address:	efficiency Standa ystems		ential Compliance Report Version: 2019.1.003 Report Generated: 2022-10-18 Schema Version: rev 20200601  CALIFORNIA ENERGY COM
CA Building Energy E  TATE OF CALIFORNIA  Mechanical Sy  IRCC-MCH-E  CERTIFICATE OF COM  Project Name:	efficiency Standa ystems	K and PIPING)  The scope of the	CALIFORNIA ENERGY CON  Munsey Elementary School  Report Page:  (Pag 3801 Brave Avenue)  In other unconditioned spaces  project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
CA Building Energy E  TATE OF CALIFORNIA  Mechanical Sy  IRCC-MCH-E  CERTIFICATE OF COM  Project Name:  Project Address:	efficiency Standa ystems	K and PIPING)  The scope of the The scope of the and diagnostic te	CALIFORNIA ENERGY CON  Munsey Elementary School  Report Page:  (Pag 3801 Brave Avenue Date Prepared:  In other unconditioned spaces
CA Building Energy E  TATE OF CALIFORNIA  VIECHANICAL SY  RCC-MCH-E  CERTIFICATE OF COM  Project Name:  Project Address:  DISTRIBUTION  15  16  17  The answers to the	ystems  IPLIANCE  (DUCTWORK  Yes questions bell	The scope of the and diagnostic te Duct system shallow apply to the follow The scope of the	CALIFORNIA ENERGY CON    NF
CA Building Energy E  TATE OF CALIFORNIA  Wechanical Sy IRCC-MCH-E  CERTIFICATE OF COM  Project Name:  Project Address:  DISTRIBUTION  15  16  17  The answers to the  11  12  13	ystems  IPLIANCE  (DUCTWORK  Yes questions bell No Yes Yes	K and PIPING)  The scope of the The scope of the and diagnostic te Duct system shallow apply to the follow apply to the follow apply to the Scope of the Duct system provements.	CALIFORNIA ENERGY CON Schema Version: rev 20200601  CALIFORNIA ENERGY CON NR Munsey Elementary School 3801 Brave Avenue Date Prepared:  1  In other unconditioned spaces project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. project includes an existing duct system that is documented to have been previously sealed as confirmed through field veesting in accordance with procedures in the Reference Nonresidential Appendix NA2.  If be sealed in accordance with the California Mechanical Code Towing duct systems:  AC-D3 Duct leakage testing triggered for these systems? No project includes only duct systems serving healthcare facilities Vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. Litoning system serves less than 5,000 ft² of conditioned floor area.
CA Building Energy E  TATE OF CALIFORNIA  Mechanical Sy RCC-MCH-E  EERTIFICATE OF COM Project Name: Project Address:  DISTRIBUTION  15  16  17  The answers to the  11  12	ystems  IPLIANCE  (DUCTWORK  Yes questions bell No Yes	The scope of the and diagnostic te Duct system shall ow apply to the follow apply to the follow the scope of the Duct system proves the space condited the combined su	CALIFORNIA ENERGY CON Schema Version: 2019.1.003 Schema Version: rev 20200601  CALIFORNIA ENERGY CON NR Munsey Elementary School Report Page: (Pag 3801 Brave Avenue Date Prepared: 1  In other unconditioned spaces project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. project includes an existing duct system that is documented to have been previously sealed as confirmed through field vesting in accordance with procedures in the Reference Nonresidential Appendix NA2.  If be sealed in acordance with the California Mechanical Code Towing duct systems:  AC-D3 Duct leakage testing triggered for these systems? No e project includes only duct systems serving healthcare facilities Vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
CA Building Energy E  TATE OF CALIFORNIA  Wechanical Sy IRCC-MCH-E  CERTIFICATE OF COM  Project Name:  Project Address:  DISTRIBUTION  15  16  17  The answers to the  11  12  13	ystems  IPLIANCE  (DUCTWORK  Yes questions bell No Yes Yes	The scope of the and diagnostic te Duct system shall ow apply to the follow The scope of the Duct system proves the space condit The combined su	CALIFORNIA ENERGY COM   Schema Version: rev 20200601   CALIFORNIA ENERGY COM   New Yersion: rev 20200601   CALIFORNIA ENERGY COM   New Yersion: rev 20200601   New Yersion: Report Page: (Pag 3801 Brave Avenue
CA Building Energy E  TATE OF CALIFORNIA  Wechanical Sy IRCC-MCH-E  CERTIFICATE OF COM  Project Name:  Project Address:  DISTRIBUTION  15  16  17  The answers to the  11  12  13	ystems  IPLIANCE  (DUCTWORK  Yes questions bell No Yes Yes	K and PIPING)  The scope of the The scope of the and diagnostic te Duct system shallow apply to the folkood to the Duct system provement of the Space condity The space condity The combined sure the Combined Sure the Combined Sure the Combined Sure the Space condity The Space of the The scope of the Space condity The Space conditions the	CALIFORNIA ENERGY COM    Munsey Elementary School   Report Page:   (Pag   3801 Brave Avenue   Date Prepared:   1
CA Building Energy E  TATE OF CALIFORNIA  Wechanical Sy IRCC-MCH-E  EERTIFICATE OF COM  Project Name:  Project Address:  DISTRIBUTION  15  16  17  The answers to the  11  12  13  14	ystems  IPLIANCE  (DUCTWORK  Yes questions bell No Yes Yes No Yes	K and PIPING)  The scope of the The scope of the and diagnostic te Duct system shallow apply to the follow The scope of the Duct system provous The space condit The combined sure and the combined sure The scope of the The scope of the and diagnostic te Duct system shallows.	Report Version: 2019.1.003 Schema Version: rev 20200601  CALIFORNIA ENERGY CON  Munsey Elementary School Report Page: Project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. Project includes an existing duct system that is documented to have been previously sealed as confirmed through field vesting in accordance with procedures in the Reference Nonresidential Appendix NA2.  Il be sealed in acordance with the California Mechanical Code  lowing duct systems:  AC-D3  Duct leakage testing triggered for these systems?  No project includes only duct systems serving healthcare facilities  vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  tioning system serves less than 5,000 ft² of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct systems:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3[a]1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In other unconditioned spaces  Project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  Project includes an existing duct system that is documented to have been previously sealed as confirmed through field ve esting in accordance with the California Mechanical Code  Il be sealed in acordance with the California Mechanical Code
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CA Building Energy Entate of CALIFORNIA  Wechanical Syntactor Name: Project Name: Project Address:  DISTRIBUTION  15  16  17 The answers to the 11  12  13  14  Registration Number CA Building Energy Entate of CALIFORNIA  Wechanical Syntactor Name: Project Address:  DISTRIBUTION  15  16  17 The answers to the 11  12  13  14  Registration Number CA Building Energy Entate of COM Project Name: Project Address:  DISTRIBUTION  15  16  17 The answers to the 11  12  13  14  15  16  17 The answers to the 11  12  13  14	ystems  PLIANCE  Yes questions beline No Yes Yes No Yes Yes No Yes Yes Questions beline No Yes Yes No Yes Yes No No No Yes Yes No No Yes Yes No	The scope of the Duct system shall ow apply to the folke and diagnostic te Duct system provemant of the space condite the Duct system shall ow apply to the folke and diagnostic te Duct system shall ow apply to the folke and diagnostic te Duct system provemant of the space condite the Duct system provemant of the Duct system provemant of the State of the Duct system provemant of the Duct system provemant of the Duct system shall ow apply to the folke of the Duct system shall on the Duct system s	Treatment of Compliance  Report Version: 2015.1.03 Software Version: 2015.1.03 Software Version: rev 2020.06.01  CALFORNIA ENERGY COM  Murrory Elementary School Report Page:   The Compliance of Comp
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Mechanical Sy NRCC-MCH-E CERTIFICATE OF COMP			CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E
Project Name: Project Address:			Munsey Elementary School Report Page: (Page 25 of 42) 3801 Brave Avenue Date Prepared: 10/18/2022
	ements apply	to the following th	ree system types per <u>§120.1(c)1A</u> : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only
outside air to occupie	able space.		le space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing t ventilation requirements; the most stringent code requirement takes precedence.
	th fixed seati	ng, the expected nu	umber of occupants shall be shall be determined in accordance with the California Building Code.  e required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation.
Examples of spaces v	which require	lighting occupancy	sensors include offices 250ft <sup>2</sup> or smaller, multipurpose rooms less than 1,000 ft <sup>2</sup> , classrooms, conference rooms, restrooms, aisles seles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).
K. TERMINAL BOX This section does not			
	show compli		ry pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(I) for duct leakage testing.
Ouct Leakage Sealin The answers to the o			lowing duct systems:  AC-A1 to AC-A4  Duct leakage testing triggered for these systems?  No eproject includes only duct systems serving healthcare facilities
12	Yes Yes	Duct system prov The space condit	vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system. tioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.
14	No	The <u>combined</u> su	Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the
			requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space
Registration Number:			Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Ef	ficiency Stand	ards - 2019 Nonreside	ential Compliance Report Version: 2019.1.003 Report Generated: 2022-10-18 15:23:50 Schema Version: rev 20200601
tate of california <b>Mechanical Sy</b> IRCC-MCH-E	stems		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMP Project Name: Project Address:	PLIANCE		Munsey Elementary School Report Page:  3801 Brave Avenue Date Prepared:  NRCC-MCH-E (Page 26 of 42)  10/18/2022
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15		Secretaria de la composição de la compos	In other unconditioned spaces project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos. project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification
16 17 The answers to the o	Yes	and diagnostic te Duct system shal	esting in accordance with procedures in the Reference Nonresidential Appendix NA2.  Il be sealed in acordance with the California Mechanical Code  lowing duct systems:  AC-A5  Duct leakage testing triggered for these systems?  No
11 12	No Yes	The scope of the Duct system prov	project includes only duct systems serving healthcare facilities vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13 14	Yes No	100	tioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors
			In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space
15		The scope of the	In other unconditioned spaces project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16 17	Yes	and diagnostic te	project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification esting in accordance with procedures in the Reference Nonresidential Appendix NA2.  Il be sealed in acordance with the California Mechanical Code
he answers to the o	No	The scope of the	lowing duct systems: IDU-ODU-A1 Duct leakage testing triggered for these systems? No project includes only duct systems serving healthcare facilities vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
12	Yes		
12 13 14	Yes Yes No	The space condit	tioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
13	Yes	The space condit The combined su	tioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.
13 14	Yes No	The space condit	tioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space
13 14 Registration Number:	Yes No	The space condit The combined su	tioning system serves less than 5,000 ft² of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space  Registration Date/Time:  Registration Provider: Energysoft ential Compliance  Report Version: 2019.1.003  Report Generated: 2022-10-18 15:23:50
13 14  Registration Number: CA Building Energy Ef	Yes No ficiency Standa	The space condit	tioning system serves less than 5,000 ft² of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space  Registration Date/Time:  Registration Provider: Energysoft
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13 14  Registration Number: CA Building Energy Ef  TATE OF CALIFORNIA  Mechanical Sy RCC-MCH-E PERTIFICATE OF COMP Project Name: Project Address:  DISTRIBUTION (  15 16 17 The answers to the c 11 12 13	Yes No No Stems PLIANCE  DUCTWORI  Yes questions bel No Yes Yes	The space condit The combined su  The combined su  The space condit The scope of the and diagnostic te Duct system shallow apply to the foll The scope of the Duct system provided the space condit The space condit	tioning system serves less than 5,000 ft² of conditioned floor area.  Jurface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140,3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space  Registration Date/Time:  Registration Provider: Energysoft ential Compliance  Report Version: 2019.1.003 Schema Version: rev 20200601  CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E  Munsey Elementary School  Report Page:  (Page 27 of 42) 3801 Brave Avenue  Date Prepared:  In other unconditioned spaces  Project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  Project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification esting in accordance with procedures in the Reference Nonresidential Appendix NA2.  Il be sealed in accordance with the California Mechanical Code  lowing duct systems:  AC-C1  Duct leakage testing triggered for these systems?  No  Project includes only duct systems serving healthcare facilities  Vides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13 14  Registration Number: CA Building Energy Ef  IATE OF CALIFORNIA Mechanical Sy RCC-MCH-E ERTIFICATE OF COMP roject Name: roject Address:  DISTRIBUTION (  15 16 17 The answers to the completed in the comple	Yes No No Stems PLIANCE  DUCTWORI  Yes questions bel No Yes	The space condit The combined su  The combined su  The space condit The scope of the and diagnostic te Duct system shallow apply to the foll The scope of the Duct system provided the space condit The space condit	tioning system serves less than 5,000 ft² of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space  Registration Date/Time:  Registration Date/Time:  Registration Provider: Energysoft Report Generated: 2022-10-18 15:23:50  Schema Version: 2019.1.003 Schema Version: rev 20200601  CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E  Munsey Elementary School Report Page:  (Page 27 of 42)  3801 Brave Avenue Date Prepared:  10/18/2022  In other unconditioned spaces  Project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  Project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification esting in accordance with procedures in the Reference Nonresidential Appendix NA2.  It be sealed in acordance with the California Mechanical Code  lowing duct systems:  AC-C1  Duct leakage testing triggered for these systems?  No  project includes only duct systems serving healthcare facilities  wides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  tioning system serves less than 5,000 ft² of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the
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13 14  Registration Number: CA Building Energy Ef  IATE OF CALIFORNIA Mechanical Sy RCC-MCH-E ERTIFICATE OF COMP roject Name: roject Address:  DISTRIBUTION (  15 16 17 The answers to the c 11 12 13	Yes No No Stems PLIANCE  DUCTWORI  Yes questions bel No Yes Yes	The space condit The combined su  The combined su  The scope of the and diagnostic te and diagnostic te and diagnostic te and diagnostic te buct system shallow apply to the foll The scope of the Duct system provided the space condit The combined su  The scope of the The scope o	tioning system serves less than 5,000 ft² of conditioned floor area.  **Irface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  **Outdoors**  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces  **In an unconditioned crawl space**  **Registration Date/Time:**  **Registration Provider: Energysoft central Compliance**  **Registration Date/Time:**  **Registration Provider: Energysoft central Compliance**  **Registration Provider: Energysoft central Compliance*
13 14  Registration Number: CA Building Energy Ef  TATE OF CALIFORNIA  Mechanical Sy RCC-MCH-E ERTIFICATE OF COMP roject Name: roject Address:  DISTRIBUTION (  15 16 17 The answers to the c 11 12 13 14  15 16 17 The answers to the c 17 The answers to the c	Yes No No Stems PLIANCE  DUCTWORI  Yes questions bel No Yes Yes No Yes questions bel	The space condit The combined su  The combined su  The scope of the and diagnostic te Duct system shal ow apply to the foll The scope of the Duct system provided the scope of the Duct system provided the Duct system shal ow apply to the foll The scope of the Duct system provided the scope of the Duct system provided the Duct system provided the space condition to the space condition	tioning system serves less than 5,000 ft² of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of \$140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In an unconditioned crawl space  Registration Date/Time:  Registration Provider: Energysoft  Report Version: 2019.1.003  Report Generated: 2022-10-18 15:23:50  **CALIFORNIA ENERGY COMMISSION  **NRCC-MCH-E**  Munsey Elementary School  Report Page:  Report Page:  Report Unconditioned spaces  project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification esting in accordance with procedures in the Reference Nonresidential Appendix NA2.  If it is easeld in accordance with the California Mechanical Code  lowing duct systems:  AC-C1  Duct leakage testing triggered for these systems?  No  project includes only duct systems serving healthcare facilities  wides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  Unioning system serves less than 5,000 ft² of conditioned floor area.  urface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors  In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces  In other unconditioned spaces  In other unconditioned spaces  Project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification as a page directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements
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13 14  Registration Number: CA Building Energy Ef  TATE OF CALIFORNIA  Mechanical Sy RCC-MCH-E  EERTIFICATE OF COMP  Project Name: Project Address:  DISTRIBUTION (  15 16 17 The answers to the company of the company	Yes No No Stems PLIANCE  PLIANCE  Yes Questions bel No Yes Yes No Yes No Yes Yes No Yes Yes No Yes Yes No Yes	The space condit The combined su  The combined su  The scope of the and diagnostic te Duct system prov The scope of the Duct system shal ow apply to the foll The scope of the Duct system prov The space condit The combined su  The scope of the Duct system prov The space condit The scope of the Duct system shal ow apply to the foll The scope of the Duct system shal ow apply to the foll The scope of the Duct system prov The space condit The scope of the Duct system prov The space condit The combined su	tioning system serves less than 5,000 ft² of conditioned floor area.  **Trace area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:    Outdoors
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Registration Number: CA Building Energy Eff  TATE OF CALIFORNIA Mechanical Sy RCC-MCH-E ERTIFICATE OF COMP Project Name: Project Address:  DISTRIBUTION (  15 16 17 The answers to the continue of the continu	Yes No  Stems  PLIANCE  PUCTWORI  Yes Questions bel No Yes Yes No  Yes Aves Aves Aves No  Yes Yes No	The space condited to the combined substitute of	Interior greatment receives than 5,000 ft <sup>-1</sup> of conditioned floor area.  The squeet directly under a moff that has a Lifettor greater than the unfactor of the certiling, or if the road does not meret the requirements of \$1,80,36118 or if the road has fleed verification and an accordance with the color of the certiling of if the road floors not meret the requirements of \$1,80,36118 or if the road has fleed verification and accordance with the color of the certiling of its throad spaces  In an unconditioned crass (space)  Registration Data/Time:  Registration Data/T
Registration Number: CA Building Energy Eff  TATE OF CALIFORNIA Mechanical Sy RCC-MCH-E ERTIFICATE OF COMP Project Name: Project Address:  DISTRIBUTION (  15 16 17 The answers to the continue of the continu	Yes No  Stems  PLIANCE  PUCTWORI  Yes Questions bel No Yes Yes No  Yes Aves Aves Aves No  Yes Yes No	The space condited to the combined substitute of	In other successites than 8,000 ft <sup>-1</sup> of conditioned from area.  The space directly under a more than 120 km to that surface area of the entire duct system:  Dutidoses  In an accordination of the confidence of

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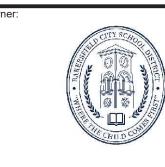
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Project Name: Project Address			Munsey Elem 3801	entary Schoo Brave Avenu	+				NRCC-MCH-E (Page 21 of 42) 10/18/2022
. VENTILATIO	ON AND INDOOR AIR QUALITY						06		7
System Name	04 IDU-ODU-D1	System Desi Airfl		42	System Transfer		0 0	Air Filtration per §120 Provided per §1 Hotel/	20.1(c) (NR and
Space Name ot item Tag	Mechanical Ventila  Occupancy Type <sup>4</sup>		per <u>§120.1(c</u>	)3 <sup>3</sup>	Required Min OA CFM		Vent per §120.1(c)4  Provided per Design CFM	DCV or Sensor Cont	rols per <u>§120.1(d)3,</u> ad <u>§120.1(e)3</u> <sup>6</sup>
Lounge	All others	283	tollets		42.4	0	0	DCV Occ Sensor	NA: Not required per §120.1(d)3 NA: Not required space type
17	Total System Required Min OA CFM 04		05	A.	42	18	Ventilation for this 06	0	Yes 7 .1(c) and §141.0(b)2 <sup>2</sup>
System Name 08	AC-D4  09  Mechanical Ventila	System Desi Airfle 10	ow <sup>1</sup>	450	System Transfer 13	Air CFM	0 15 Vent per §120.1(c)4	Provided per <u>§1</u> Hotel/l	20.1(c) (NR and
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	A STATE OF THE STA	_	Required Min OA CFM	Required Min CFM	Provided per Design CFM	I Allerton (Carlo)	rols per <u>§120.1(d)3</u> , ad <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom  Total System Required Min OA CFM	921			350 350	0	0  Ventilation for this	Occ Sensor	§120.1(d)4  NA: Not required space type  Yes
tate of califori	ergy Efficiency Standards - 2019 Nonreside	ntial Compliance	e	Report	ation Date/T Version: 201 I Version: re	9.1.003		Report Generat	ed: 2022-10-18 15:23:50
RCC-MCH-E CERTIFICATE OF Project Name: Project Address			Munsey Elem 3801	entary Schoo Brave Avenue				CALIFORNIA	NRCC-MCH-E (Page 22 of 42) 10/18/2022
. VENTILATIO	ON AND INDOOR AIR QUALITY		05				06		7
System Name	AC-D5	System Desi Airfl	ign OA CFM	450	System Transfer 13	Design Air CFM	0	Air Filtration per §120 Provided per §1 Hotel/	.1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and
Space Name ot item Tag	Mechanical Ventila  Occupancy Type <sup>4</sup>		per <u>§120.1(c</u>	)3 <sup>3</sup>	Required Min OA CFM		Vent per §120.1(c)4  Provided per Design CFM	DCV or Sensor Cont	rols per <u>§120.1(d)3,</u> ad <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom  Total System Required Min OA CFM	921			350 350	0	0  Ventilation for this	DCV Occ Sensor System Complies?	Provided per §120.1(d)4  NA: Not required space type  Yes
System Name	04  AC-E1	System Desi Airfl	•	450	System Transfer	Design	06	Air Filtration per §120 Provided per §1	Yes .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel))
08 Space Name ot item Tag	09  Mechanical Ventila  Occupancy Type <sup>4</sup>	Conditioned Floor Area	# of Shower heads/		13 Required Min OA	Exh.  Required Min CFM	15 Vent per §120.1(c)4 Provided per Design CFM	DCV or Sensor Cont	6  rols per <u>§120.1(d)3</u> , ad <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	(ft²) 914	toilets	Foohic	247.3	0	0	DCV Occ Sensor	Provided per §120.1(d)4  NA: Not required
					ı				NA: Not required
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica IRCC-MCH-E EERTIFICATE OF	ergy Efficiency Standards - 2019 Nonreside NIA al Systems			Report Schema	347 ation Date/T Version: 201 version: re	.9.1.003 v 20200601	Ventilation for this	System Complies?  Registrat  Report Generat	space type Yes tion Provider: Energysoft ed: 2022-10-18 15:23:50 ENERGY COMMISSION NRCC-MCH-E
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica IRCC-MCH-E CERTIFICATE OF Project Name: Project Address:	umber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE		Munsey Elem	Report Schema	version: 201 Version: re	ime: 9.1.003 v 20200601		System Complies?  Registrat  Report Generat	space type Yes tion Provider: Energysoft ed: 2022-10-18 15:23:50
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica RCC-MCH-E ERTIFICATE OF Project Name: Project Address  VENTILATIO	umber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE	System Desi	Munsey Elem 3801 05	Report Schema	Report Pa	jee: ared:		System Complies?  Registrat Report Generat  CALIFORNIA  O Air Filtration per §120	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica RCC-MCH-E ERTIFICATE OF Project Name: Project Address  VENTILATIO	umber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE :  DN AND INDOOR AIR QUALITY  04	System Desi Airfl 10	Munsey Elem 3801 05 ign OA CFM ow <sup>1</sup> 11	Report Schema	Report Pa	Jesign Air CFM	06	Registrat Report Generat  CALIFORNIA  CALIFORNIA  Provided per §1 Hotel/i	space type Yes  Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022
Registration Nu CA Building Ene TATE OF CALIFORI Mechanica RCC-MCH-E EERTIFICATE OF Project Name: Project Address: VENTILATIO	ergy Efficiency Standards - 2019 Nonreside  NIA  AI Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E2  09	System Desi Airfl 10	Munsey Elem 3801 05 ign OA CFM ow <sup>1</sup> 11 per <u>\$120.1(c</u>	Report Schema entary School Brave Avenue 450 12	Report Pa Date Prep	Jesign Air CFM	06 0 15	Registrat Report Generat  CALIFORNIA  CALIFORNIA  O Air Filtration per §120 Provided per §1 Hotel/i  DCV or Sensor Cont §120.1(d)5, ar	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  17 1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  trols per §120.1(d)3, ad §120.1(e)3 <sup>6</sup> Provided per
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica IRCC-MCH-E CERTIFICATE OF Project Name: Project Address: VENTILATIO System Name 08  Space Name	amber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila	System Desi Airfl 10 tion Required Conditioned Floor Area	Munsey Elem 3801  05  ign OA CFM ow <sup>1</sup> 11  per §120.1(c) # of Shower heads/	entary School Brave Avenue 450 12 12 13 3 # of	Report Pales Date Preport Pales	Jesign Air CFM Exh. Required	06 0 15 Vent per <u>§120.1(c)4</u> Provided per Design	Registrat Report Generat  CALIFORNIA  CALIFORNIA  Output  Description	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  17 1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  trols per §120.1(d)3, and §120.1(e)3 <sup>6</sup>
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica IRCC-MCH-E EERTIFICATE OF Project Name: Project Address:  OSystem Name  O8  Space Name ot item Tag  Classroom  17  System Name	amber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3	System Desi Airfle 10 tion Required Conditioned Floor Area (ft²) 921 System Desi Airfle	Munsey Elem 3801  05  ign OA CFM ow¹  11  per §120.1(c  # of Shower heads/ toilets  05  ign OA CFM ow¹	entary School Brave Avenue  450  12  )3  # of people5	Report Pales Date Preport Pales	Jesign Air CFM  18  Design Air CFM  0  18  Design Air CFM	06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this 06	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DOV  Provided per §1  Hotel/I  DCV  Occ Sensor  System Complies?  Air Filtration per §120  Provided per §1  Hotel/I  Air Filtration per §120  Provided per §1  Hotel/I	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  10/18/2022
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica RCC-MCH-E EERTIFICATE OF Project Name: Project Address: OSystem Name O8 Space Name ot item Tag  Classroom 17 System Name O8 Space Name	amber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04	System Desi Airfling 10 tion Required Conditioned Floor Area (ft²) 921	Munsey Elem 3801  05  ign OA CFM ow¹  11  per §120.1(c # of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c # of Shower heads/ toilets	Report Schema entary School Brave Avenue  450  12  33  # of people5  450  12  33  450	Report Pale Date Prep  System Transfer  13  Required Min OA CFM  350  System Transfer  13	Jesign Air CFM  O  18  Design Air CFM  14  Exh.  Required Min CFM  0  18  Design Air CFM	06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this 06  0  15  Vent per §120.1(c)4  Provided per Design	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DOCV or Sensor Cont \$120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Air Filtration per \$120  Provided per \$1  Hotel/I  DCV or Sensor Cont  System Complies?	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes 7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica IRCC-MCH-E CERTIFICATE OF Project Name: Project Address: Description Name  08  Space Name ot item Tag  Classroom  17  System Name	amber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila	System Desi Airfle 10 tion Required Conditioned Floor Area (ft²)  921  System Desi Airfle 10 tion Required Conditioned Floor Area	Munsey Elem 3801  05  ign OA CFM ow¹  11  per §120.1(c) # of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c) # of Shower heads/	Report Schema  entary School Brave Avenue  450  12  33  # of people 5  450  12  33  # of people 5	Required Min OA CFM  System Transfer  13  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  Required Min OA CFM  System Transfer  13	Design Air CFM  14 Exh. Required Design Air CFM  18  Design Air CFM  Required Air CFM  Required	06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this 06  0  15  Vent per §120.1(c)4  Provided per Design	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DOCV or Sensor Cont \$120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Air Filtration per \$120  Provided per \$1  Hotel/I  DCV or Sensor Cont  System Complies?	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes 7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  rols per §120.1(d)3, and §141.0(b)2 <sup>3</sup> 7 .1(c) and §141.0(b)2 <sup>3</sup>
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica RCC-MCH-E EERTIFICATE OF Project Address  VENTILATIO  System Name  O8  Space Name ot item Tag  Classroom  17  System Name  O8  Space Name ot item Tag  Classroom  17	anber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom	System Desi Airfli 10 tion Required Conditioned Floor Area (ft²)  921  System Desi Airfli 10 tion Required Conditioned Floor Area (ft²)	Munsey Elem 3801  05  ign OA CFM ow¹  11  per §120.1(c) # of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c) # of Shower heads/	Report Schema  entary School Brave Avenue  450  12  )3  # of people5  450  12  )3  # of people5	Required Min OA CFM  Required Min OA CFM  Required Min OA CFM  Required Min OA CFM	jime: 9.1.003 v 20200601  ge: ared:  Design Air CFM  14 Exh. Required Min CFM  14 Exh. Required Min CFM  0  18	06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this 06  0  15  Vent per §120.1(c)4  Provided per Design CFM	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DOCV  Provided per §1  Hotel/I  DCV  Occ Sensor  System Complies?  DCV  Occ Sensor Cont §120.1(d)5, ar  DCV  DCV  Occ Sensor Cont System Complies?  DCV  Occ Sensor Cont System Complies?	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  rols per §120.1(d)3, and §141.0(b)2 <sup>3</sup> Provided per §120.1(d)4 NA: Not required
Registration NucCA Building Energy  TATE OF CALIFORI Wechanica RCC-MCH-E ERTIFICATE OF Project Name: Project Address:  VENTILATIO  System Name  O8  Space Name ot item Tag  Classroom  17  System Name  O8  Classroom  17  Registration NucCA Building Energy	amber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3	System Desi Airfli 10 tion Required Conditioned Floor Area (ft²)  921  System Desi Airfli 10 tion Required Conditioned Floor Area (ft²)  921	Munsey Elem 3801  05  ign OA CFM ow¹  11  per §120.1(c # of Shower heads/ toilets  11  per §120.1(c # of Shower heads/ toilets	Report Schema  entary School Brave Avenue  450  12  33  # of people5  450  12  33  Registra Report	Report Pale Date Prep  System Transfer  13  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  350  350  System Transfer  13	ime: 9.1.003 v 20200601  ge: ared:  Design Air CFM  14 Exh. Required Min CFM  0  18  Design Air CFM  0  18  Design Air CFM  14 Exh. Required Min CFM  14 Exh. Required Min CFM  14 Exh. Required Min CFM	06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this 06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DCV or Sensor Cont §120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Air Filtration per §120  Provided per §1  Hotel/I  DCV or Sensor Cont §120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Registrat	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)3, ad §120.1(e)3 <sup>6</sup> Provided per §120.1(d)4 NA: Not required space type Yes
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica IRCC-MCH-E EERTIFICATE OF Project Address  VENTILATIO  System Name  O8  Space Name ot item Tag  Classroom  17  System Name  O8  Classroom  17  Registration Nu CA Building Ene  TATE OF CALIFORI	amber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  and Systems  Ergy Efficiency Standards - 2019 Nonreside  NIA  BI Systems  COMPLIANCE	System Desi Airfle  Conditioned Floor Area (ft²)  921  System Desi Airfle  10  tion Required  Conditioned Floor Area (ft²)  921  system Desi Airfle  20  conditioned Floor Area (ft²)  921	Munsey Elem 3801  05  ign OA CFM ow¹  11  per §120.1(c # of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c # of Shower heads/ toilets  w¹  ign OA CFM ow¹  11  per §120.1(c) # of Shower heads/ toilets	Report Schema  entary School Brave Avenue  450  12  33  # of people5  450  12  Registra Report Schema	Required Min OA CFM  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  Version: 201  Version: 201  Version: re	pesign Air CFM  14 Exh. Required Min CFM	06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this 06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DOV  Provided per §120  Provided per §120  Air Filtration per §120  Provided per §1  DCV  Occ Sensor  System Complies?  OAir Filtration per §120  Provided per §1  Hotel/I  DCV or Sensor Cont  §120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Registrat  Report Generat	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  17 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel))  for ols per §120.1(d)3, and §120.1(e)3 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel))  6  rols per §120.1(d)3, and §120.1(e)3 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  rols per §120.1(d)3, and §120.1(e)3 6  Provided per §120.1(d)4 NA: Not required space type Yes  tion Provider: Energysoft
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica RCC-MCH-E EERTIFICATE OF Project Address:  ONE OF COMMENT OF CALIFORI OF CALIFO	amber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  and Systems  Ergy Efficiency Standards - 2019 Nonreside  NIA  BI Systems  COMPLIANCE	System Desi Airfle  Conditioned Floor Area (ft²)  921  System Desi Airfle  10  tion Required  Conditioned Floor Area (ft²)  921  system Desi Airfle  20  conditioned Floor Area (ft²)  921	Munsey Elem 3801  05  ign OA CFM ow¹  11  per §120.1(c # of Shower heads/ toilets  11  per §120.1(c # of Shower heads/ toilets  Munsey Elem 3801	entary School Brave Avenue  450  12  33  # of people5  Aspended to the people of peopl	Required Min OA CFM  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  Version: 201  Version: 201  Version: re	pesign Air CFM  14 Exh. Required Min CFM	06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this 06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DCV or Sensor Cont §120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Air Filtration per §120 Provided per §1 Hotel/I  DCV or Sensor Cont §120.1(d)5, ar  DCV  Occ Sensor  System Complies?  CALIFORNIA  CALIFORNIA  CALIFORNIA	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)3, and §120.1(e)3 6  Provided per §120.1(d)4 NA: Not required space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 24 of 42)
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica RCC-MCH-E ZERTIFICATE OF Project Address:  VENTILATIO  System Name  08  Space Name ot item Tag  Classroom  17  System Name  08  Classroom  17  Registration Nu CA Building Ene TATE OF CALIFORI Wechanica RCC-MCH-E CERTIFICATE OF Project Address:  VENTILATIO  AUTOMATICATION  TATE OF CALIFORI Wechanica RCC-MCH-E CERTIFICATE OF Project Address:  VENTILATION  VENTILATION  VENTILATION  VENTILATION  VENTILATION  OF COMMENTILATION  OF	amber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  al System Required Min OA CFM  Imber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY	System Desi Airfle  Conditioned Floor Area (ft²)  921  System Desi Airfle  10  tion Required  Conditioned Floor Area (ft²)  921  system Desi Airfle  20  conditioned Floor Area (ft²)  921	Munsey Elem 3801  05  ign OA CFM ow¹  11  per §120.1(c  # of Shower heads/ toilets	entary School Brave Avenue  450  12  33  # of people5  Aspended to the people of peopl	Required Min OA CFM  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  System Transfer  13  Required Min OA CFM  350  System Transfer  13  System Transfer  14  System Transfer  15  System Transfer  16  System Transfer  17  System Transfer  18  System Transfer  19  System Transfer  10  System Transfer  10  System Transfer  10  System Transfer  11  System Transfer  12  System Transfer  13  System Transfer  14  System Transfer  15  System Transfer  16  System Transfer  17  System Transfer  18  System Transfer  19  System Transfer	ime: 9.1.003 v 20200601  ge: ared:  Design Air CFM  14 Exh. Required Min CFM  0  18  Design Air CFM  14 Exh. Required Min CFM  0  18  ime: 9.1.003 v 20200601	06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this 06  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DCV or Sensor Cont \$120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Air Filtration per \$120  Provided per \$1  Hotel/i  DCV or Sensor Cont \$120.1(d)5, ar  CALIFORNIA  CALI	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)3, and §120.1(e)3 6  Provided per §120.1(d)4 NA: Not required space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 24 of 42) 10/18/2022
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Registration Nuc CA Building Ene TATE OF CALIFORI Vechanica RCC-MCH-E ERTIFICATE OF Project Name: Project Address: Classroom  17  System Name  08  Space Name ot item Tag  Classroom  17  Registration Nuc CA Building Ene TATE OF CALIFORI Vechanica RCC-MCH-E ERTIFICATE OF Project Address: CA Building Ene TATE OF CALIFORI Vechanica RCC-MCH-E ERTIFICATE OF Project Address: COSSTEEN Name  08  Space Name OTATE OF CALIFORI Vechanica RCC-MCH-E ERTIFICATE OF Project Address: COSSTEEN Name  OS COSSTEEN N	aniber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  Imber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E4  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total Systems  COMPLIANCE  :	System Desi Airfli 10 tion Required Conditioned Floor Area (ft²) 10 tion Required Conditioned Floor Area (ft²) 921  System Desi Airfli 10 tion Required Conditioned Floor Area (ft²) 921  System Desi Airfli 10 tion Required Conditioned Floor Area (ft²) 11 System Desi Airfli 12 System Desi Airfli 13 System Desi Airfli 14 System Desi Airfli 15 System Desi Airfli 16 System Desi Airfli 17 System Desi Airfli 18 System Desi Airfli 19 System Desi Airfli 10	Munsey Elem 3801  05  ign OA CFM ow¹  11  per \$120.1(c  # of Shower heads/ toilets  11  per \$120.1(c)  # of Shower heads/ toilets	Report Schema  entary School Brave Avenue  450  12  33  # of people5  A50  12  33  # of people5  A50  12  33  # of people5  A50  12  33  450  12  31  450  12  31  450  12  31  450  12  31  450  12  31  450  12  31  450  12  450  12	Required Min OA CFM  Required Min OA CFM  350  System Transfer  13  System Transfer  System Transfer  System Transfer  System Transfer  13  System Transfer	ime: 9.1.003 v 20200601  ge: ared: Design Air CFM  14 Exh. Required Min CFM  0 18  Design Air CFM  14 Exh. Required Min CFM  0 18  Design Air CFM  0 18  Design Air CFM  19.1.003 v 20200601	O6  O15  Vent per §120.1(c)4  Provided per Design CFM  O1  Vent per §120.1(c)4  Provided per Design CFM  O1  Ventilation for this  O2  Ventilation for this  O3  Ventilation for this  O4  Ventilation for this  O5  Vent per §120.1(c)4  Provided per Design CFM  O1  Ventilation for this  O6  O 15  Vent per §120.1(c)4  Provided per Design CFM  O1  O2  Ventilation for this  O6  O1  O6  O6	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DCV or Sensor Cont §120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Air Filtration per §120  Provided per §1  Hotel/I  DCV or Sensor Cont §120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Registrat  Report Generat  CALIFORNIA  CA	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  rols per §120.1(d)3, ad §120.1(e)3 <sup>6</sup> Provided per §120.1(d)4 NA: Not required space type Yes  10: NR and Motel)) 6  ENERGY COMMISSION NRCC-MCH-E (Page 24 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 <sup>2</sup>
Registration Nu CA Building Ene TATE OF CALIFORI Wechanica RCC-MCH-E Project Name: Project Address:  VENTILATION  System Name  08  Space Name ot item Tag  Classroom  17  Registration Nu CA Building Ene TATE OF CALIFORI Wechanica RCC-MCH-E ERTIFICATE OF Project Address:  VENTILATION  System Name  08  Space Name ot item Tag  Classroom  17  CA Building Ene CRC-MCH-E ERTIFICATE OF Project Name: Project Name: Project Name: Classroom  17  CSystem Name  08  Classroom  17  CSystem Name  08  Classroom  17  CSystem Name  O8  Classroom  17	anber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  al Systems  COMPLIANCE :  DN AND INDOOR AIR QUALITY  04  AC-E4  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  AC-E4  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total Systems  COMPLIANCE :	System Desi Airfli 10 tion Required Conditioned Floor Area (ft²) 10 tion Required Conditioned Floor Area (ft²) 921  System Desi Airfli 10 tion Required Conditioned Floor Area (ft²) 921  System Desi Airfli 10 tion Required Conditioned Floor Area (ft²) 11 System Desi Airfli 12 System Desi Airfli 13 System Desi Airfli 14 System Desi Airfli 15 System Desi Airfli 16 System Desi Airfli 17 System Desi Airfli 18 System Desi Airfli 19 System Desi Airfli 10	Munsey Elem 3801  05  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets  05  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets  e  Munsey Elem 3801  05  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets	Report Schema  entary School Brave Avenue  450  12  33  # of people5  Registra Report School Brave Avenue  450  12  33  # of people5  450  12  33  # of people5	Required Min OA CFM  System Transfer  13  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  350  350  System Transfer  13  System Transfer	ime: 9.1.003 v 20200601  ge: ared: Design Air CFM  14 Exh. Required Min CFM  0 18  Design Air CFM  14 Exh. Required Min CFM  0 18  Design Air CFM  0 18  Design Air CFM  19.1.003 v 20200601	06  0 15  Vent per §120.1(c)4  Provided per Design CFM  0 Ventilation for this 06  15  Vent per §120.1(c)4  Provided per Design CFM  0 Ventilation for this  06  0 15  Vent per §120.1(c)4  Provided per Design CFM  0 Ventilation for this  06  0 15  Vent per §120.1(c)4  Provided per Design CFM  0 Provided per Design CFM  0 Provided per Design CFM  0 Provided per Design CFM	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  DCV or Sensor Cont §120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Air Filtration per §120  Provided per §1  Hotel/i  DCV or Sensor Cont §120.1(d)5, ar  DCV  Occ Sensor  System Complies?  Registrat  Report Generat  CALIFORNIA  DCV  Occ Sensor  System Complies?  Air Filtration per §120  Provided per §1  Hotel/i  DCV  Occ Sensor  CALIFORNIA  CALIFOR	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  17 1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel))  6  Provided per §120.1(d)4 NA: Not required space type Yes  7 1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel))  6  Provided per §120.1(d)4 NA: Not required space type Yes  7 1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel))  6  Provided per §120.1(d)4 NA: Not required space type Yes  10/18/2022  7 1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel))  6  Provided per §120.1(d)4 NA: Not required space type Yes  7 1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel))  6  Provided per §120.1(d)4 NA: Not required space type Yes  7 1(c) and §141.0(b)2 <sup>2</sup> 20.1(c) (NR and Motel))
Registration Nu CA Building Ene Mechanica RCC-MCH-E ERTIFICATE OF Project Address:  VENTILATIO  System Name  08  Space Name ot item Tag  Classroom  17  Registration Nu CA Building Ene Mechanica RCC-MCH-E ERTIFICATE OF Project Address:  VENTILATIO  System Name  08  Space Name ot item Tag  Classroom  17  Registration Nu CA Building Ene Mechanica RCC-MCH-E ERTIFICATE OF Project Address:  VENTILATIO  System Name  08  Classroom  17  Classroom  17  System Name  08  Classroom  17	Imber: ergy Efficiency Standards - 2019 Nonreside  NIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E2  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E3  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  Imber: ergy Efficiency Standards - 2019 Nonreside  Imber: ergy Efficiency Standards - 2019 Nonreside  INIA al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUALITY  04  AC-E4  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E4  09  Mechanical Ventila  Occupancy Type <sup>4</sup> Lecture/ postsecondary classroom  Total System Required Min OA CFM  04  AC-E5	System Desi Airfle  Conditioned Floor Area (ft²)  921  System Desi Airfle  10  tion Required  Conditioned Floor Area (ft²)  921  system Desi Airfle  10  tion Required  Conditioned Floor Area (ft²)  921  System Desi Airfle  10  tion Required  Conditioned Floor Area (ft²)  10  tion Required  Conditioned Floor Area (ft²)  921	Munsey Elem 3801  05  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets  05  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets  e  Munsey Elem 3801  05  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets  05  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets  05  ign OA CFM ow¹  11  per \$120.1(c)  # of Shower heads/ toilets	Report Schema  entary School Brave Avenue  450  12  33  # of people5  Registra Report Schema  450  12  33  # of people5	Required Min OA CFM  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  System Transfer  13  Required Min OA CFM  System Transfer  13  Required Min OA CFM  350  System Transfer  13  Required Min OA CFM  350  System Transfer  13	ime: 9.1.003 v 20200601  ge: ared:  Design Air CFM  14 Exh. Required Min CFM  14 Exh. Required Min CFM  0  18  Design Air CFM  14 Exh. Required Min CFM  0  18  Design Air CFM  14 Exh. Required Min CFM  0  18  Design Air CFM  14 Exh. Required Min CFM  14 Exh. Required Min CFM  14 Exh. Required Min CFM	06  0 15  Vent per §120.1(c)4  Provided per Design CFM  0 Ventilation for this 06  15  Vent per §120.1(c)4  Provided per Design CFM  0 Ventilation for this  06  0 15  Vent per §120.1(c)4  Provided per Design CFM  0 Ventilation for this  06  0 15  Vent per §120.1(c)4  Provided per Design CFM  0 Provided per Design CFM  0 Provided per Design CFM  0 Provided per Design CFM	Registrat Report Generat  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  CALIFORNIA  Description of \$120  Provided per \$1  Hotel/I  DCV or Sensor Content \$120.1(d)5, are \$120.1(	space type Yes  tion Provider: Energysoft ed: 2022-10-18 15:23:50  ENERGY COMMISSION NRCC-MCH-E (Page 23 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  ENERGY COMMISSION NRCC-MCH-E (Page 24 of 42) 10/18/2022  7 .1(c) and §141.0(b)2 ² 20.1(d)4 NA: Not required space type Yes  10/18/2022  7 .1(c) and §141.0(b)2 ² 20.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  rols per §120.1(d)3, and §120.1(e)3 6  Provided per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6  rols per §120.1(d)4 NA: Not required space type Yes  7 .1(c) and §141.0(b)2 ² 20.1(c) (NR and Motel)) 6

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CH-E	COMPLIANCE		Munsey Elem	entary School	Report Pa	age:		CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E  (Page 21 of 42)	NRCC-MCH-E  CERTIFICATE OF CO  Project Name:			Munsey Elem	entary Schoo	Report Page:		CALIFORNIA	A ENERGY COMMI NRCC-I (Page 17
Address:			3801	Brave Avenue	Date Prep	pared:		10/18/2022	Project Address:		,	3801	Brave Avenu	Date Prepared:			10/18
TILATIO	N AND INDOOR AIR QUALITY 04		05				06	07 Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup>	J. VENTILATION	N AND INDOOR AIR QUALITY  04		05	ĺ		06	( Air Filtration per §120	) 1(c) and 6141 0
Name	IDU-ODU-D1		low <sup>1</sup>	42	Transfer	n Design r Air CFM	0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))	System Name	AC-C2	System Desi Airfl	ow <sup>1</sup>	450	System Design Transfer Air CFM	0	Provided per <u>§1</u> Hotel/	<u>120.1(c)</u> (NR and Motel))
Name	09 Mechanical Ventila	tion Required			13 Required		Vent per <u>§120.1(c)4</u>	DCV or Sensor Controls per §120.1(d)3,	08 Space Name	09 Mechanical Ventila	10 ation Required Conditioned	N. N. S.		Required	15 Vent per <u>§120.1(c)4</u>	DCV or Sensor Con	16 trols per <u>§120.1(</u>
m Tag	Occupancy Type <sup>4</sup>	Floor Area (ft²)	heads/ toilets	# of people <sup>5</sup>	Min OA CFM	Required Min CFM		§120.1(d)5, and §120.1(e)3 <sup>6</sup> NA: Not required per	ot item Tag	Occupancy Type <sup>4</sup>	Floor Area (ft²)	heads/ toilets	# of people <sup>5</sup>	Min OA CFM Required Min CFM	Provided per Design CFM	<u>3120.1(u/3</u> , al	nd <u>§120.1(e)3</u> <sup>6</sup> Provided p
nge	All others	283			42.4	0	0	Occ Sensor  NA: Not required	Classroom	Lecture/ postsecondary classroom	921			350 0	0	Occ Sensor	§120.1(d)4 NA: Not requ
7 T	Total System Required Min OA CFM 04		05		42	18	Ventilation for this	space type  System Complies?  Yes  07	17 To	otal System Required Min OA CFM		05		350 18	Ventilation for this	s System Complies?	space type Yes
Name	AC-D4		ign OA CFM low <sup>1</sup>	450		n Design r Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup> Provided per §120.1(c) (NR and Hotel/Motel))	System Name	AC-C3	System Desi Airfl		450	System Design Transfer Air CFM	0		0.1(c) and <u>§141.</u> 120.1(c) (NR and Motel))
8	09 Mechanical Ventila	10 Ition Required	11 per <u>§120.1(c</u>	12 2)3 <sup>3</sup>	13	14 Exh.	15 Vent per <u>§120.1(c)4</u>	16	08	09 Mechanical Ventila	10 ation Required	11 per <u>§120.1(c</u>	12 )3 <sup>3</sup>	13 14 Exh.	15 Vent per <u>§120.1(c)4</u>	:	16
Name m Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120.1(d)3</u> , <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> <sup>6</sup>	Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM Required Min CFM	Provided per Design CFM	DCV or Sensor Con §120.1(d)5, an	trols per <u>§120.1(</u> nd <u>§120.1(e)3</u> <sup>6</sup>
room	Lecture/ postsecondary classroom	921			350	0	0	DCV Provided per <u>§120.1(d)4</u> NA: Not required	Classroom	Lecture/ postsecondary classroom	921			350 0	0	DCV	Provided p §120.1(d) NA: Not requ
7 T	Total System Required Min OA CFM				350	18	Ventilation for this	space type	17 T	otal System Required Min OA CFM				350 18	Ventilation for this	Occ Sensor s System Complies?	space typ
5000 0	rgy Efficiency Standards - 2019 Nonreside	ntial Complian	ce	Report \	ntion Date/T Version: 20: Version: re		ı	Registration Provider: Energysoft Report Generated: 2022-10-18 15:23:50		gy Efficiency Standards - 2019 Nonreside	ential Complianc	е	Report	ution Date/Time: Version: 2019.1.003 Version: rev 20200601	1		tion Provider: Ene
H-E	l Systems							CALIFORNIA ENERGY COMMISSION	Mechanical NRCC-MCH-E	Systems						CALIFORNIA	A ENERGY COMN
CATE OF C Name: Address:	COMPLIANCE		Munsey Elem 3801	entary School Brave Avenue				NRCC-MCH-E (Page 22 of 42) 10/18/2022	CERTIFICATE OF Co Project Name: Project Address:	OMPLIANCE				Report Page: Date Prepared:			NRCC (Page 1
	N AND INDOOR AIR QUALITY									N AND INDOOR AIR QUALITY							
Name	04 AC-D5		05 sign OA CFM	450		n Design	06	07 Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup> Provided per §120.1(c) (NR and	System Name	04 IDU-ODU-C1	System Desi		53	System Design	06	Air Filtration per §120	A STATE OF THE STA
8	09	10	low <sup>1</sup>	12	Transfer 13	r Air CFM	15	Provided per §120.1(c) (NR and Hotel/Motel))  16	08	09	Airfl 10	11	12	Transfer Air CFM  13  14	15		120.1(c) (NR and Motel)) 16
Name m Tag	Mechanical Ventila Occupancy Type <sup>4</sup>	Conditioned Floor Area		# of	Required Min OA	Required		DCV or Sensor Controls per <u>§120.1(d)3</u> , <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> <sup>6</sup>	Space Name ot item Tag	Mechanical Ventila  Occupancy Type <sup>4</sup>	Conditioned Floor Area	A	# of	Required Min OA Min CEM	Vent per §120.1(c)4  Provided per Design	DCV or Sensor Con §120.1(d)5, a	trols per <u>§120.1</u> nd <u>§120.1(e)3</u> <sup>6</sup>
		(ft²)	toilets	people <sup>5</sup>	CFM	Min CFM	CFM	DCV Provided per §120.1(d)4			(ft²)	toilets	people <sup>5</sup>	CFM Min CFM	0.600	DCV	NA: Not requi
	Lecture/ postsecondary classroom	921			350	0	0	Occ Sensor NA: Not required space type	Workroom	Office space	351			52.6 0	0	Occ Sensor	NA: Not req space ty
/ Т	Total System Required Min OA CFM 04		05		350	18	Ventilation for this 06	System Complies? Yes  07  Air Filtration per <u>\$120.1(c)</u> and <u>\$141.0(b)2</u> <sup>2</sup>	17 T	otal System Required Min OA CFM		05		53 18	Ventilation for this	s System Complies?  Air Filtration per §120	Yes 0.7 0.1(c) and §141
Name	AC-E1	Air	lign OA CFM	450	Transfer	n Design r Air CFM	0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))	System Name	AC-C4	System Desi Airfl	ow <sup>1</sup>	450	System Design Transfer Air CFM	0	Provided per <u>§1</u> Hotel/	<u>l20.1(c)</u> (NR an Motel))
Name	09 Mechanical Ventila	Conditioned	# of Shower	12 3 3 # of	Required		Vent per §120.1(c)4  Provided per Design	DCV or Sensor Controls per §120.1(d)3,	Space Name	09 Mechanical Ventila	Conditioned	# of Shower	200.00	Required Required	Vent per §120.1(c)4  Provided per Design	DCV or Sensor Con	
m Tag	Occupancy Type <sup>4</sup>	Floor Area (ft²)	heads/ toilets	people <sup>5</sup>	Min OA CFM	Min CFM		§120.1(d)5, and §120.1(e)3 <sup>6</sup> Provided per	ot item Tag	Occupancy Type <sup>4</sup>	Floor Area (ft²)	heads/ toilets	people <sup>5</sup>	Min OA CFM Min CFM		610/110/74/100	nd <u>§120.1(e)3</u> <sup>6</sup> Provided <sub>I</sub>
oom	Lecture/ postsecondary classroom	914			347.3	0	0	Occ Sensor  DCV  \$120.1(d)4  NA: Not required space type	Classroom	Lecture/ postsecondary classroom	921			350 0	0	Occ Sensor	§120.1(d)  NA: Not requestions space type
7 T	Total System Required Min OA CFM				347	18	Ventilation for this		17 T	otal System Required Min OA CFM	(			350 18	Ventilation for this	s System Complies?	Yes
CALIFORNI I <b>anical</b> IH-E	rgy Efficiency Standards - 2019 Nonreside  IA  I Systems  COMPLIANCE	ntial Complian	ce		Version: 20.	19.1.003 ev 20200601	ı	Report Generated: 2022-10-18 15:23:50  CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E	STATE OF CALIFORNI.  Mechanical  NRCC-MCH-E  CERTIFICATE OF CO	Systems	ential Complianc	е	7	Version: 2019.1.003 Version: rev 20200601	1		ed: 2022-10-18 1 A ENERGY COMM
Name: Address:			Munsey Elem 3801	entary School Brave Avenue	+			(Page 23 of 42) 10/18/2022	Project Name: Project Address:					Report Page: Date Prepared:			(Page 1
TILATIO	N AND INDOOR AIR QUALITY		05				06	07	J. VENTILATION	N AND INDOOR AIR QUALITY		05			06		07
Name	AC-E2		ign OA CFM	450		n Design r Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup> Provided per §120.1(c) (NR and Hotel/Motel))	System Name	AC-C5	System Desi Airfl		450	System Design Transfer Air CFM	0	Air Filtration per §120 Provided per §1	V 1000
8	09 Mechanical Ventila	10 Ition Required	11 per <u>§120.1(c</u>	12 )3 <sup>3</sup>	13	14 Exh.	15 Vent per <u>§120.1(c)4</u>	16	08	09 Mechanical Ventila	10 ation Required	11 per <u>§120.1(c</u>	12 ) <u>3</u> <sup>3</sup>	13 14 Exh.	15 Vent per <u>§120.1(c)4</u>		16
Name m Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM		DCV or Sensor Controls per <u>§120.1(d)3</u> , <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> <sup>6</sup>	Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM Required Min CFM	Provided per Design CFM	DCV or Sensor Con- <u>§120.1(d)5</u> , an	trols per <u>§120.1</u> nd <u>§120.1(e)3</u> <sup>6</sup>
room	Lecture/ postsecondary classroom	921			350	0	0	DCV Provided per §120.1(d)4  NA: Not required	Classroom	Lecture/ postsecondary classroom	921			350 0	0	DCV	Provided p §120.1(d) NA: Not requ
7 Т	Total System Required Min OA CFM		05		350	18	Ventilation for this	space type System Complies?  Yes	17 To	otal System Required Min OA CFM		05		350 18		Occ Sensor s System Complies?	space typ
Name	O4  AC-E3	System Des	05 sign OA CFM low <sup>1</sup>	450	- 25	n Design r Air CFM	06	07  Air Filtration per <u>\$120.1(c)</u> and <u>\$141.0(b)2</u> <sup>2</sup> Provided per <u>\$120.1(c)</u> (NR and	System Name	04 AC-D1	System Desi		450	System Design Transfer Air CFM	06	Air Filtration per §120 Provided per §1	120.1(c) (NR and
8	09 Mechanical Ventila	10	11	12	13	14 Exh.	15 Vent per §120.1(c)4	Hotel/Motel))  16	08	09 Mechanical Ventila	10	11	12 )3 <sup>3</sup>	13 14	15 Vent per <u>§120.1(c)4</u>		Motel)) L6
Name n Tag			# of Shower		Required Min OA CFM	+	Provided per Design	DCV or Sensor Controls per <u>§120.1(d)3</u> , <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> <sup>6</sup>	Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower		Required	Provided per Design	DCV or Sensor Con- §120.1(d)5, at	trols per <u>§120.1</u> nd <u>§120.1(e)3</u> <sup>6</sup>
room	Lecture/ postsecondary classroom	921	Conets		350	0	0	DCV Provided per §120.1(d)4	Classroom	Lecture/ postsecondary classroom	914	Circls		347.3 0	0	DCV	Provided p §120.1(d)
	Total System Required Min OA CFM				350	18	Ventilation for this	Occ Sensor  NA: Not required space type  System Complies?  Yes		otal System Required Min OA CFM				347 18		Occ Sensor s System Complies?	NA: Not requested space type
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californi I <b>anical</b> H-E	I Systems							CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA  Mechanical  NRCC-MCH-E							CALIFORNIA	A ENERGY COMI
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	N AND INDOOR AIR QUALITY		5501	ciide				anj anj evel		N AND INDOOR AIR QUALITY		2001					10/
	O4 AC-E4	System Des		AEO		n Design	06	07 Air Filtration per <u>§120.1(c)</u> and <u>§141.0(b)2</u> <sup>2</sup> Provided per §120.1(c) (NP and		04	System Desi		450	System Design	06	Air Filtration per §120	No. of the last of
Name 8	AC-E4		low <sup>1</sup>	450		r Air CFM	15	Provided per §120.1(c) (NR and Hotel/Motel))  16	System Name  08	AC-D2	Airfl		450 12	Transfer Air CFM  13  14	15		<u>120.1(c)</u> (NR and Motel)) 16
Name n Tag	The state of the s	Conditioned	# of Shower	# of	Required Min OA	Required		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	Space Name ot item Tag	Mechanical Ventila	Conditioned	per <u>§120.1(c</u> # of Shower	<u>)3</u> <sup>3</sup>	Required Required	Vent per §120.1(c)4  Provided per Design	DCV or Sensor Con	trols per <u>§120.1</u> nd <u>§120.1(e)3</u> <sup>6</sup>
ug	Occupancy Type <sup>4</sup>	Floor Area (ft²)	heads/ toilets	people <sup>5</sup>	Min OA CFM	Min CFM	CFM	Provided per	or item rag	Occupancy Type <sup>4</sup>	Floor Area (ft²)	heads/ toilets	people <sup>5</sup>	Min OA CFM Min CFM		§120.1(d)5, a	Provided p
room	Lecture/ postsecondary classroom	921			350	0	0	Occ Sensor  State of the space type  State of the space type	Classroom	Lecture/ postsecondary classroom	921			350 0	0	Occ Sensor	§120.1(d) NA: Not requ space typ
7 T	Total System Required Min OA CFM 04		05		350	18	Ventilation for this 06	System Complies? Yes 07	17 To	otal System Required Min OA CFM 04		05		350 18	Ventilation for this	57c-17	Yes
Name	AC-E5	25	ign OA CFM low <sup>1</sup>	450	1.5	n Design r Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup> Provided per §120.1(c) (NR and Hotel/Motel))	System Name	AC-D3	System Desi Airfl		450	System Design Transfer Air CFM	0	Air Filtration per §120 Provided per §1 Hotel/	The second secon
8	09 Mechanical Ventila		WA COLOR	12 2)3 <sup>3</sup>	13	14 Exh.	15 Vent per <u>§120.1(c)4</u>	16	08	09 Mechanical Ventila		A STATE OF THE PARTY OF THE PAR	100000		15 Vent per <u>§120.1(c)4</u>	·	16
Name n Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	and the second statement of the second second	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 <sup>6</sup>	Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM Required Min CFM	Provided per Design CFM	DCV or Sensor Con §120.1(d)5, au	nd <u>§120.1(e)3</u> <sup>6</sup>
room	Lecture/ postsecondary classroom	921			350	0	0	DCV Provided per §120.1(d)4  NA: Not required	Classroom	Lecture/ postsecondary classroom	921			350 0	0	DCV Occ Sensor	Provided   §120.1(d
	Total System Required Min OA CFM				350	18	Ventilation for this	Occ Sensor space type	17 To	otal System Required Min OA CFM				350 18	Ventilation for this	Occ Sensor s System Complies?	space typ
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	rgy Efficiency Standards - 2019 Nonreside	ntial Complian	ce	Report \	Version: 20	19.1.003 ev 20200601		Report Generated: 2022-10-18 15:23:50	CA Building Energ	gy Efficiency Standards - 2019 Nonreside	ential Compliance	e		Version: 2019.1.003 Version: rev 20200601		Report General	ted: 2022-10-18 15

APP: 03-122489 INC: REVIEWED FOR
SS FLS ACS



**BAKERSFIELD** CITY SCHOOL

DISTRICT 1300 BAKER STREET FRESNO, CA. 93706

HVAC REPLACEMENT

Project Address: **MUNSEY ELEMENTARY** SCHOOL

3801 BRAVE AVENUE BAKERSFIELD, CA 93309



integrated designs

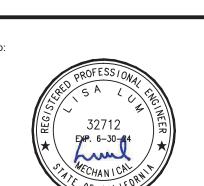
by SOMAM, Inc.

**INTERIOR DESIGN** 

**ARCHITECTURE ENGINEERING** 

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

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TITLE 24

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IRCC-MCH-E CERTIFICATE OF COMPLIANCE			CALIFORNIA ENERGY COMMISSIO NRCC-MCH
	mentary School	Report Page:	(Page 41 of 4
Project Address: 3803	1 Brave Avenue	Date Prepared:	10/18/202
Q. MANDATORY MEASURES DOCUMENTATION LOCATION			
This table is used to indicate where mandatory measures are documented in th	he plan set or o	construction documentation.	
01			02
Compliance with Mandatory Measures documented through MCH Wandatory Measures Note Block		Yes	M-Sheets
Registration Number:	Registrat	ion Date/Time:	Registration Provider: Energysof
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report V	ersion: 2019.1.003	Report Generated: 2022-10-18 15:23:5
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Mechanical Systems  NRCC-MCH-E  CERTIFICATE OF COMPLIANCE  Project Name: Munsey Eler	mentary School 1 Brave Avenue	Report Page:	NRCC-MCH (Page 42 of 4:
Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: Munsey Eler Project Address: 3803		Report Page:	NRCC-MCH (Page 42 of 4
Mechanical Systems  NRCC-MCH-E  CERTIFICATE OF COMPLIANCE  Project Name: Munsey Eler  Project Address: 380:  DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	1 Brave Avenue	Report Page: Date Prepared:	NRCC-MCH (Page 42 of 4
Mechanical Systems  NRCC-MCH-E  CERTIFICATE OF COMPLIANCE  Project Name: Munsey Eler  Project Address: 380:  DOCUMENTATION AUTHOR'S DECLARATION STATEMENT  Il certify that this Certificate of Compliance documentation is accurate	1 Brave Avenue	Report Page: Date Prepared:  te.	NRCC-MCH (Page 42 of 4 10/18/20:
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Munsey Ele	mentary School	Report Page:	NRCC-MCH-E (Page 41 of 42)	CERTIFICATE OF COMPLIANCE Project Name: Munsey Elementary School Report Page:	-
380	1 Brave Avenue	Date Prepared:	10/18/2022	Project Address: 3801 Brave Avenue Date Prepared:	_
ON				O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
documented in t	ne plan set or o	construction documentation.		Selections have been made based on information provided in previous tables of this document. If any selection needs to be a These documents must be provided to the building inspector during construction and can be found online at	7
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				THEA WELL OF A AIR ECONOMINEER CONTROL	
		Phone: 559-436-0881			
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ue and correct.	ibility for the build	ling design or system design identified on	this Certificate of Compliance (responsible designer)		
components, and ma	nufactured device	s for the building design or system design	identified on this Certificate of Compliance conform to the requirements		,
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Compliance shall be r Certificate of Complia	nade available wit nce is required to	h the building permit(s) issued for the bui be included with the documentation the b	ding, and made available to the enforcement agency for all applicable uilder provides to the building owner at occupancy.		
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NRCA-MCH-12-A FDD for Packaged Direct Expansion Units

There are no NRCV forms required for this project.

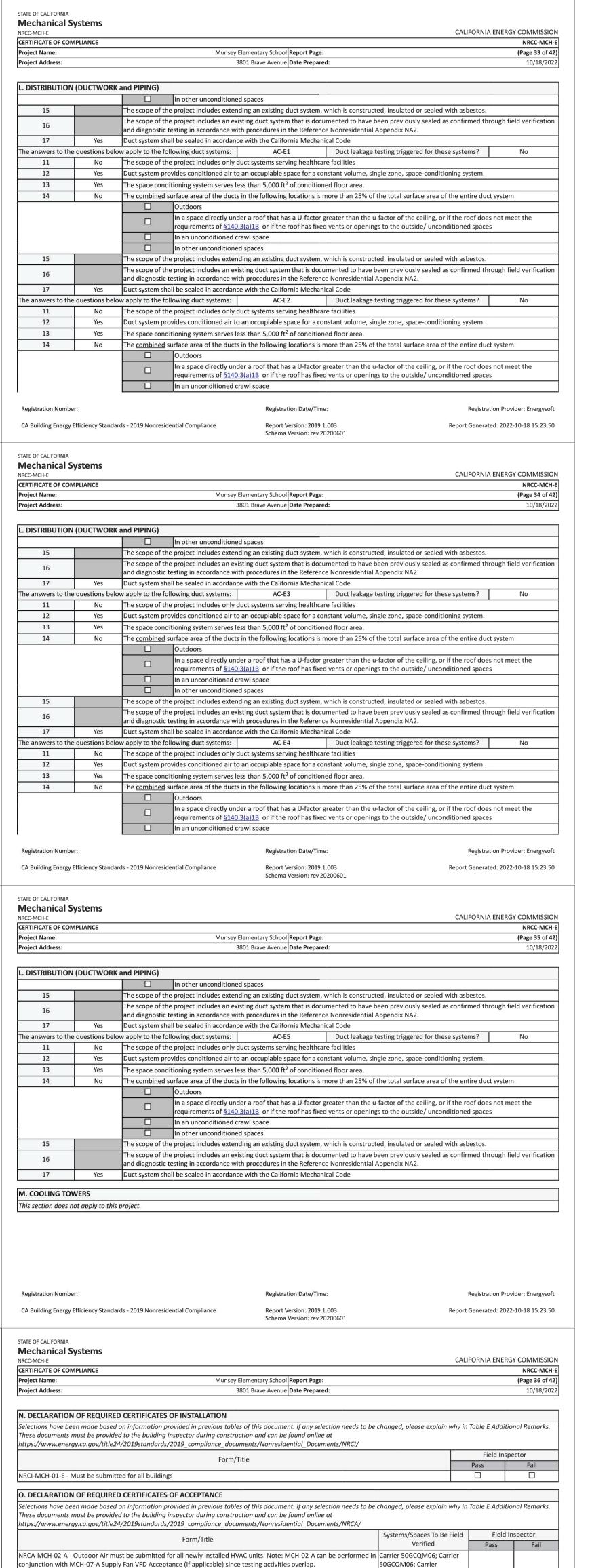
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P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122489 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆



#### **BAKERSFIELD CITY SCHOOL**

DISTRICT 1300 BAKER STREET

FRESNO, CA. 93706

HVAC REPLACEMENT

Project Address: **MUNSEY ELEMENTARY SCHOOL** 

3801 BRAVE AVENUE BAKERSFIELD, CA 93309



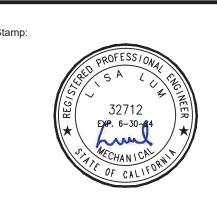
# integrated

by SOMAM, Inc.

**ARCHITECTURE ENGINEERING INTERIOR DESIGN** 

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

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