## IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

RANCHO CUCAMONGA, CA 91730

UNIF 

OMP (2018 INTERNATIONAL FIRE CODE (IFC) W/ CALIFORNIA

1990 STATE FIRE MARSHAL REGULATIONS (AS AMENDED TO DATE ) CALIFORNIA CODE O

(2018 INTERNATIONAL EXISTING

BUILDING CODE (IEBC) W/

CALIFORNIA AMENDMENTS)

STANDARDS CODE -CALIFORNIA **CODE OF REGULATIONS** REGULATIONS (CCR) TITLE 19 (CCR) TITLE 24, PART 12

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

**ELECTRICAL ENGINEER** 

JOHNSON CONSULTING ENGINEERS

FAX: 866-517-3293

FAX: 858-513-0559

AMENDMENTS)

KNA STRUCTURAL ENGINEERS

**DUFOE CONSULTING ENGINEERS** 

10680 TREENA STREET #163

SAN DIEGO, CA 92131

PHONE: 858-368-8630

POWAY, CA 92064

PHONE: 858-679-4030

2019 CALIFORNIA FIRE CODE (CFC)

(CCR) TITLE 24, PART 9

(CCR) TITLE 24, PART 10

(CCR) TITLE 24, PART 11

**BUILDING CODE** 

2019 CALIFORNIA EXISTING

CALIFORNIA CODE OF REGULATIONS

CALIFORNIA CODE OF REGULATIONS

2019 CALIFORNIA GREEN BUILDING

CALIFORNIA CODE OF REGULATIONS

STANDARDS CODE (CAL GREEN)

2019 CALIFORNIA REFERENCED

9931 MUIRLANDS BLVD

PHONE: 949-462-3200

**IRVINE, CA 92618** 

2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN (ADAS)

APPLICABLE NFPA, UL AND ICC STANDARDS NFPA 72 - NATIONAL FIRE ALARM CODE, 2016 EDITION AUDIBLE SIGNAL APPLIANCES, 2003 EDITION NOTE: ALL NFPA STANDARDS AS LISTED ARE TO CONFORM TO THE EDITION AS LISTED WITH THE LATEST CALIFORNIA AMENDMENTS. REFERENCE THE 2019 CBC, TITLE 24, PART 2 - CHAPTER 35 FOR ADDITIONAL APPLICABLE NFPA, UL. STANDARDS AND ANY CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

GOVERNING AGENCY: DIVISION OF THE STATE ARCHITECT STRUCTURAL SAFETY SECTION (DSA/SSS) ACCESS COMPLIANCE (DSA/AC) FIRE AND LIFE SAFETY SECTION (DSA/FLS) 10920 VIA FRONTERA, SUITE 300 SAN DIEGO, CALIFORNIA 92127 (858) 674-5400

# PROJECT TEAM

#### PROJECT ADDRESS SPECIFICATIONS FOR AUTOMATIC END WELDED STUDS TOVASHAL ELEMENTARY SCHOOL MATERIAL: AUTOMATIC END WELDED STUDS SHALL BE NELSON

23801 SAINT RAPHAEL DRIVE MURRIETA, CA 92562

PHONE: 909-987-0909 FAX: 909-980-9980

MURRIETA VALLEY UNIFIED SCHOOL DISTRICT 41870 MCALBY COURT

MURRIETA, CA 92562

**OWNER** 

PHONE: 909-987-0909 FAX: 909-980-9980

**ARCHITECT** WLC ARCHITECTS, INC.

RANCHO CUCAMONGA, CA 91730

PHONE: 909-987-0909

# FAX: 909-980-9980

# **GOVERNING CODES & AGENCY**

2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 2019 CALIFORNIA MECHANICAL CODE (CMC)

(CCR) TITLE 24, PART 5

ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24. CALIFORNIA CODE OF REGULATIONS (CCR)

GRANULAR FLUX-FILLED SHEAR CONNECTOR OR ANCHOR STUDS

(OR APPROVED EQUAL). STUDS SHALL BE MANUFACTURED OF

INSTALLATION: THE STUDS SHALL BE AUTOMATICALLY END

WELDED IN ACCORDANCE WITH THE MANUFACTURER'S

RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE

TO ASTM A29. ICC/ES ESR-2856.

C-1010 THROUGH C-1020 COLD -DRAWN STEEL WHICH CONFORMS

PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING

APPROXIMATELY 1/8" FOR 5/8" AND UNDER.AND 3/16" FOR OVER

5/8" DIAMETER. WELDING SHALL BE DONE ONLY BY QUALIFIED

INSPECTION AND TESTS: INSPECTION, IN ACCORDANCE WITH

(APPROVED BY THE DIVISION OF THE STATE ARCHITECT). THE

AT THE BEGINNING OF EACH DAY'S WORK, A MINIMUM OF TWO

USED TO METAL WHICH IS THE SAME AS THE ACTUAL WORK

TEST STUD WELDS SHALL BE MADE WITH THE EQUIPMENT TO BE

PIECE. THE TEST STUDS SHALL BE SUBJECTED TO A 90 DEGREE

BEND TEST BY STRIKING THEM WITH A HEAVY HAMMER. AFTER

THE ABOVE TEST, THE WELD SECTION SHALL NOT EXHIBIT ANY

ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN

BE AS STIPULATED IN INTERPRETATION OF REGULATION

INSPECTOR SHALL BE CERTIFIED AS A CLASS 3 INSPECTOR

SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE

EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE

THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR

ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE

ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE

CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE

WORK. THE INSPECTORS DUTIES ARE SPECIFICALLY DEFINED IN

SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL

TEARING OUT OR CRACKING.

INSPECTOR OF RECORD REQUIREMENTS

DOCUMENT IR A-8.

TYPE AND CAPACITY OF THE WELDING EQUIPMENT SHALL BE IN

ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS

WELDING OPERATIONS FOR THE AUTOMATIC END WELDED STUDS

WELDERS APPROVED BY THE WELDING INSPECTOR.

SHALL BE MADE BY A QUALIFIED WELDING INSPECTOR

AND SHALL BE CHECKED AND APPROVED BY A WELDING

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY TITLE 24. CCR. PART 1. SECTION 4-338.

START OF ANY WORK FOR THIS PROJECT.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIROMENTAL HEALTH CONCIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

DRINKING WATER SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT

FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH REQUIREMENTS AND THE CALIFORNIA RETAIL FOOD FACILITIES LAW.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE

WORK OF THE ADDITION, ALTERATION OR RECONSTRUCTION IS IN COMPLIANCE WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT IDENTIFIED BY THE CONTRACT DOCUMENTS WHEREIN THE FINAL WORK WOULD NOT COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT OF THE CONDITION IN WRITING.

NECESSARY INFORMATION REQUIRED TO CORRECT THE CONDITIONS ENCOUNTERED WILL BE ISSUED BY THE ARCHITECT. A CHANGE ORDER MAY BE ISSUED TO ADJUST THE CONTRACT SUM OR TIME COMMENSURATE WITH THE AMOUNT OF ADDITIONAL WORK REQUIRED IF ANY. A CONSTRUCTION CHANGE DOCUMENT SHALL BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK REQUIRED BY THE CHANGE ORDER.

ON THESE DRAWINGS WAS DESIGNED IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ACCESSIBILITY STANDARDS OF THE CALIFORNIA BUILDING CODE, (CBC) TITLE 24, PART 2, CHAPTER 11B OF THE CALIFORNIA CODE OF REGULATIONS (CCR). STRICT EXECUTION OF THE SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOULD A CONDITION PRESENT ITSELF THAT WOULD RESULT IN AN INSTALLATION OTHER THAN WHAT IS INDICATED IN THESE DRAWINGS. WLC ARCHITECTS, INC. SHALL BE NOTIFIED IN WRITING AND A COMPLIANT

RESOLUTION WILL BE FORMULATED

ALL SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING INDICATED

2019 CALIFORNIA BUILDING CODE (CBC)

2019 CALIFORNIA ELECTRICAL CODE (CEC)

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 2019 CALIFORNIA PLUMBING CODE (CPC)

CALIFORNIA CODE OF REGULATIONS

2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

# SCOPE OF WORK

THE SCOPE OF THE WORK AS STATED BELOW IS FOR DSA PLAN REVIEW

GENERAL ALTERATION TO BUILDINGS A. B. C. D. AND E: REPLACEMENT OF ALL ROOFTOP HVAC PACKAGE UNITS.

PURPOSES ONLY AND DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

(2018 INTERNATIONAL BUILDING

CODE (IBC) W/ CALIFORNIA

(2017 NATIONAL ELECTRIC

CODE (NEC) W/ CALIFORNIA

(2018 UNIFORM MECHANICAL

CODE (UMC) W/ CALIFORNIA

(2018 UNIFORM PLUMBING

CODE (UPC) W/ CALIFORNIA

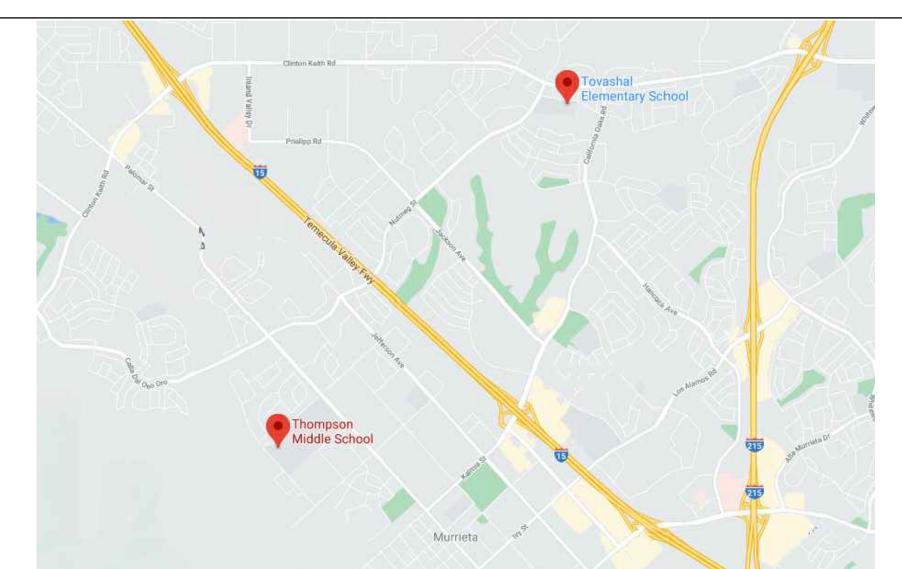
AMENDMENTS)

AMENDMENTS)

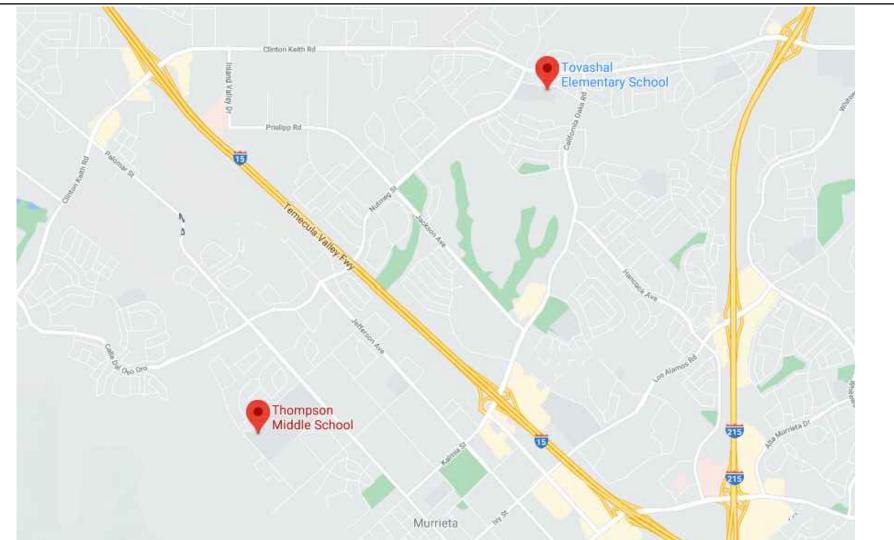
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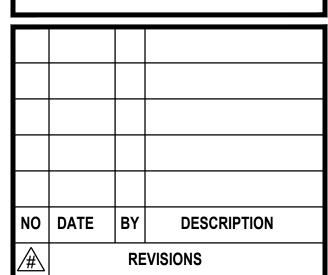
# ☆(LISA COX)



# VICINITY MAP



# Ren. Dole: 07/31/2023 CONSULTANT



CHECKED: **DATE**: 03/10/2021 | **SCALE**: PROJECT NUMBER: 1726300

> **GENERAL NOTES** & PROJECT DIRECTORY

DRAWING A0.1 NUMBER:

# GENERAL NOTES

#### THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY

- LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
- THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WLC ARCHITECTS, INC.
- THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, WLC ARCHITECTS. INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS WLC ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A
- EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE

LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT

# FIRE SAFETY DURING CONSTRUCTION

OFFICIAL.

- GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND
- ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3310
- WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3312.
- BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.
- ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE **PROVISIONS OF CHAPTER 33**
- DEMOLITION OF BUILDINGS: SHALL COMPLY APPLICABLE PROVISIONS OF CHAPTER 33.
- FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33. SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING
- PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS
- NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):

THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6. CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.

#### 8. (CONT) ENVELOPE MANDATORY MEASURES

- INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL
- ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 720 AND 2603.
- ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED WEATHERSTRIPPED OR OTHERWISE SEALED.
- SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING. AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
- MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 110.6.
- MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION

RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE

OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).

- DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL
- PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS:
  - WEDGE CATEGORY ANCHOR. APPLY PROOF TEST LOADS TO WEDGE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF

ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE

REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S)

THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF

THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.

- TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
- **INSTALLED ANCHORS:** HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. DROP IN ANCHORS ARE ONLY TO BE
- TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS FOR WEDGE ANCHORS: ONE-HALF (1/2) TURN OF THE NUT.

TESTED WITH THIS METHOD.

#### IF MANUFACTURERS TORQUE IS LESS THAN SPECIFIED TEST TORQUE THE MANUFACTURERS LISTED TORQUE SHALL BE USED FOR TESTING.

TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS

ALL EXPANSION TYPE ANCHOR BOLTS USED FOR STRUCTURAL APPLICATIONS SHALL BE TESTED. ALL ANCHOR BOLTS OF THE EXPANSION TYPE USED FOR NON STRUCTURAL APPLICATIONS (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT ALLOWED BY THE TYPE OF SUBSTRATE AND PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION ADJACENT BOLTS MUST THEN ALSO BE TESTED. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 24, PART 2,

ALL BOLTS MUST HAVE ICC/ES APPROVAL

**SECTION 1910A.5.** 

- ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN CONCRETE SHALL BE ONE OF THE FOLLOWING:
- 1. ITW RAMSET/REDHEAD-WEDGE ANCHOR-ICC/ES NO. 2427 2. HILTI, INC.- QWIK BOLT TZ -WEDGE ANCHOR-ICC/ES NO. 1917

3. SIMPSON - STRONGBOLT 2 - WEDGE ANCHOR - ICC/ES NO. 3037 MIMIMUM TEST VALUES

_	NORMALWEIGHT OR LIGHTWEIGHT CONCRETE							
	ANC	ANCHOR WEDGE						
_	DIA. (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EMBED MENT (IN)				
-								
-	3/8	1,100	25	2				
-	1/2	2,000	50	3-1/4				
-	5/8	2,300	80	4-1/4				
_	3/4	3,700	150	4-3/4				

ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN GROUT FILLED MASONRY SHALL BE ONE OF THE FOLLOWING:

1. HILTI, INC.-KWIK BOLT III-WEDGE ANCHOR-ICC/ES NO. 1385 2. SIMPSON-STRONGBOLT 2-WEDGE ANCHOR-IAMPO NO. ER-240 MIMIMUM TEST VALUES

_		G	ROUT FILLE	D CONCRE	TE MASONR	Y	
	ANC	HOR	WE	OGE			
-	DIA. (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EMBED MENT (IN)			
-	1/4	1,080	4	2			
-	3/8	1,564	15	2-1/2			
-	1/2	1,810	25	3-1/2			
-	5/8	2,484	65	4			
-	0/4	0.000	400	4.0/0			i

# 11. POWDER DRIVEN CONCRETE FASTENERS:

1. HILTI, INC.

GENERAL: USE OF POWDER DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE

ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT.

- ALLOWABLE LOADS: IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 100 POUNDS. HOWEVER, GREATER LOADS MAY BE PERMITTED FOR SPECIAL CASES WHEN APPROVED BY THE CHECKING SUPERVISOR OR FIELD ENGINEER.
- TESTING: THE OPERATOR, TOOL, AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD. OR 200 POUNDS. WHICHEVER IS GREATER SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE AROUND THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS, EXCEPT THAT WHEN THE DESIGN LOAD EXCEEDS 100 POUNDS, ONE HALF OF THE PINS SHALL BE TESTED. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL
- ALL POWDER DRIVEN CONCRETE FASTENERS SHALL BE ONE OF THE FOLLOWING:

INSTALLATIONS MUST BE TESTED AND UNFAIR PINS REPLACED.

X-U PINS - STEEL TRACK - ICC/ES NO. 2269 2.. ITW RAMSET/REDHEAD DRIVE PIN - WOOD PLATE - ICC/ES NO. 2690 DRIVE PIN - STEEL TRACK - ICC/ES NO. 1799

X-CP 72 PINS - WOOD PLATE - ICC/ES NO. 2379

3. SIMPSON STRONG-TIE CO., INC. PDPWL-300MG - WOOD PLATE - ICC/ES NO. 2138 PDPA-125- STEEL TRACK - ICC/ES NO. 2138

DRAWING INDEX CODE			X	ING INDE	DRAW			
DRAWING DISCIPLINE PREFIX INDEX	DESCRIPTION	DRAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION	DRAWING REF NO
A. ARCHITECTURAL	TOTAL SHEET COUNT: 29	Т	ELECTRICAL ELECTRICAL LEGEND & NOTES	E-1.0	MECHANICAL  MECHANICAL LEGEND & GENERAL NOTES	M-0.1	ARCHITECTURAL  GENERAL NOTES / PROJECT DIRECTORY	A0.1
C. CIVIL D. INTERIOR DESIGN / FURNITURE			ELECTRICAL ROOF PLAN - BLDG A	E-6.1	MECHANICAL TITLE 24 CALCULATIONS	M-0.2	DRAWING INDEX	A0.2
E. ELECTRICAL  F. FIRE PROTECTION / SPRINKLER SYSTEM			ELECTRICAL ROOF PLAN - BLDG B	E-6.2	MECHANICAL TITLE 24 CALCULATIONS	M-0.3	OVERALL SITE PLAN - FOR REFERENCE ONLY	A1.1
G. GRAPHICS			ELECTRICAL ROOF PLAN - BLDG C  ELECTRICAL ROOF PLAN - BLDG D	E-6.3 E-6.4	MECHANICAL TITLE 24 CALCULATIONS  MECHANICAL TITLE 24 CALCULATIONS	M-0.4 M-0.5		
H. HAZARDOUS MATERIALS  K. DIETARY / FOOD SERVICE			ELECTRICAL ROOF PLAN - BLDG E	E-6.5	MECHANICAL TITLE 24 CALCOLATIONS  MECHANICAL SCHEDULES	M-1.1	STRUCTURAL	
L. LANDSCAPING  M. MECHANICAL			MECHANICAL EQUIPMENT SCHEDULES	E-6.6	MECHANICAL ROOF PLAN - BLDG A	M-2.A	GENERAL NOTES	S-0.1
P. PLUMBING					MECHANICAL ROOF PLAN - BLDG B	M-2.B	BLDG A ROOF FRAMING PLAN	S-2.A
S. STRUCTURAL  T. TELECOMMUNICATIONS					MECHANICAL ROOF PLAN - BLDG C  MECHANICAL ROOF PLAN - BLDG D	M-2.C M-2.D	BLDG B ROOF FRAMING PLAN  BLDG C ROOF FRAMING PLAN	S-2.B S-2.C
					MECHANICAL ROOF PLAN - BLDG E	M-2.E	BLDG D ROOF FRAMING PLAN	S-2.D
DRAWING GROUP PREFIX INDEX					MECHANICAL DETAILS	M-5.1	BLDG E ROOF FRAMING PLAN	S-2.E
0. GENERAL INFORMATION 1. SITE PLANS							DETAILS	S-3.1
<ol> <li>FLOOR PLANS</li> <li>REFLECTED CEILING PLANS</li> </ol>								
<ol> <li>ROOF PLANS</li> <li>EXTERIOR ELEVATIONS / SECTIONS</li> </ol>								
6. ENLARGED FLOOR PLANS								
<ul><li>7. INTERIOR ELEVATIONS</li><li>8. CIRCULATION / STAIRS / ELEVATORS</li></ul>								
9. 3D REPRESENTATIONS								
DRAWING NUMBER CODE								
AH2.2								
DRAWING NUMBER								
GROUP PREFIX INDEX								
BUILDING IDENTITY								
DISCIPLINE PREFIX INDEX								
								_
DISCIPLINE OR DRAWING GROUPS NOT INDICATED IN DRAWING INDEX ARE NOT APPLICABLE OR ARE INCLUDED IN THE 16 DIVISIONAL GROUPING OF THE DETAIL								
DRAWINGS. BUILDING IDENTITY DESIGNATIONS MAY OR MAY NOT BE UTILIZED. REFER TO KEY PLANS AND DRAWING INDEX FOR APPLICATION OF BUILDING DESIGNATIONS. THE DISCIPLINE AND DRAWING GROUPS ARE INTEGRAL WITH THE								
DETAIL DRAWINGS AND ARE NOT COMPLETE IN THEMSELVES. IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.								
DETAIL DRAWING PREFIX INDEX								
DIVISION 1 - GENERAL REQUIREMENTS								
DIVISION 2 - SITE WORK DIVISION 3 - CONCRETE								
DIVISION 4 - MASONRY								
DIVISION 5 - METALS DIVISION 6 - WOOD AND PLASTICS								
DIVISION 7 - THERMAL AND MOISTURE PROTECTION DIVISION 8 - DOORS AND WINDOWS								
DIVISION 9 - FINISHES DIVISION 10 - SPECIALTIES								
DIVISION 11 - EQUIPMENT DIVISION 12 - FURNISHINGS								
DIVISION 12 - FURNISHINGS  DIVISION 13 - SPECIAL CONSTRUCTION  DIVISION 14 - CONVEYING SYSTEMS								_
DIVISION 14 - CONVEYING SYSTEMS  DIVISION 15 - MECHANICAL  DIVISION 16 - ELECTRICAL								
DETAIL DRAWING CODE								
8.4								
DRAWING NUMBER								
DIVISION PREFIX INDEX								
THE DIVISION PREFIX NUMBERS ARE THOSE IDENTIFIED BY THE 16 DIVISION GROUPING SYSTEM OF MASTER FORMAT AS PUBLISHED BY THE CONSTRUCTION								
SPECIFICATION INSTITUTE (CSI) AND SHALL NOT BE SOLEY REPRESENTATIVE OF REQUIREMENTS FOR ANY ONE DIVISION. THOSE DIVISIONS NOTED AS BEING OMITTED ARE NOT APPLICABLE OR ARE INCLUDED UNDER DISCIPLINE DRAWINGS. IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.								

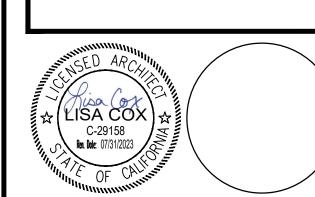


RANCHO CUCAMONGA

8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

AC REPLACEMENT

VALLEY UNIFIED SCHOOL DISTR



ISULTANT

NO DATE BY DESCRIPTION

REVISIONS

DRAWN: WLC CHECKED: WLC

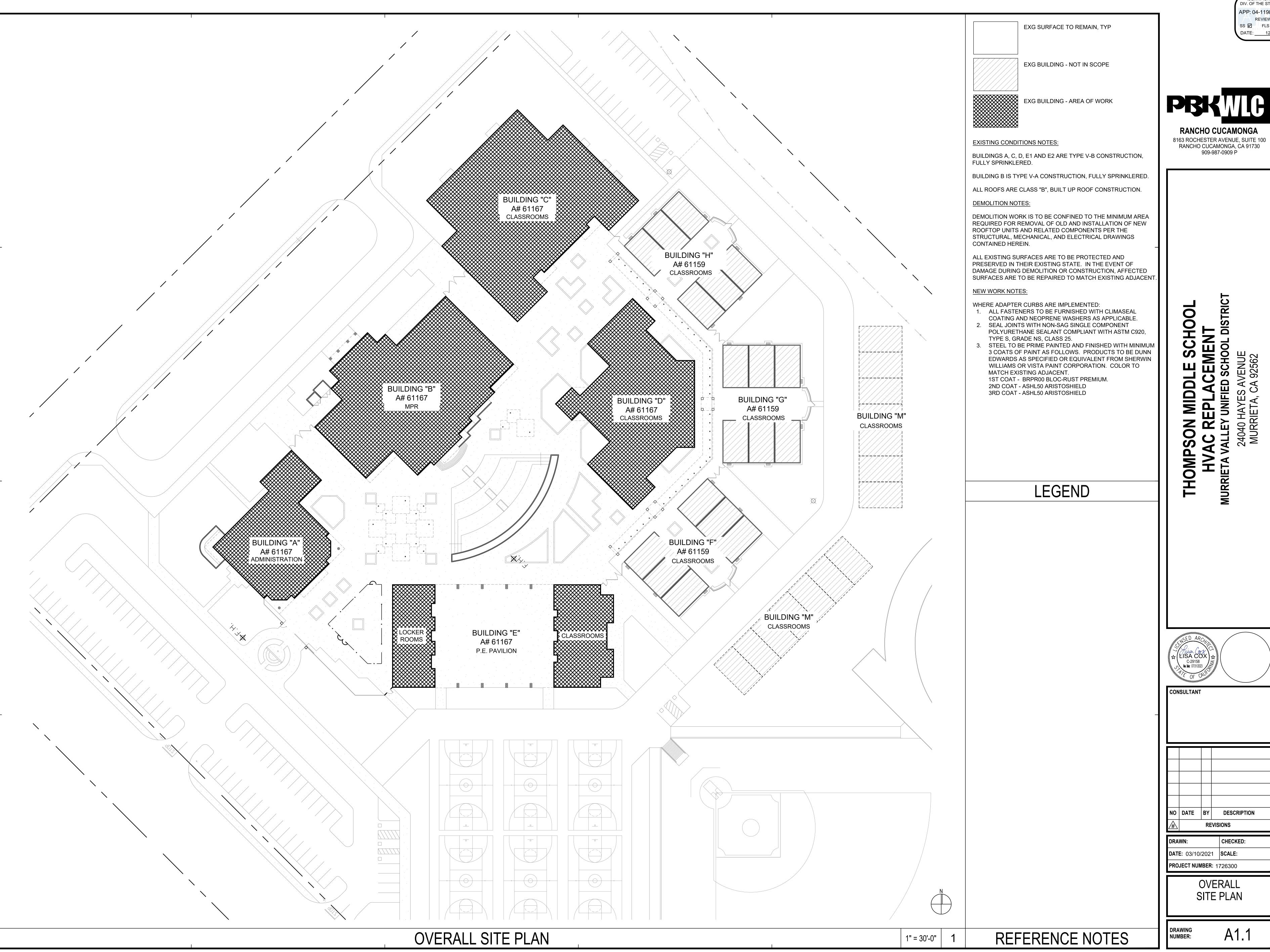
DATE: 03/10/2021 SCALE: NONE

DRAWING INDEX

PROJECT NUMBER: 1726300

DRAWING NUMBER:

A0.2



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LIST OF ABBREVIATIONS
                      ADDITIONAL
ALTERNATE
                      AMERICAN CONCRETE INSTITUTE
                      AMERICAN PLYWOOD ASSOCIATION
APA
ASTM
                      AMERICAN SOCIETY FOR TESTING AND MATERIALS
                      AMERICAN WELDING SOCIETY
                      ANCHOR BOLT(S)
                      APPROXIMATELY
APPROX.
ARCH.
                      ARCHITECT / ARCHITECTURAL
                      BASE PLATE
                      BEARING
BTWN.
                      BETWEEN
BLK.
                      BLOCK
BLKG.
                      BLOCKING
                      BOTH ENDS
                      ВОТТОМ
                      BOUNDARY NAILS
BLDG.
                      BUILDING
                      CALIFORNIA BUILDING CODE
                      CAST IN PLACE
                      CEILING JOIST OR CONSTRUCTION JOINT OR CONTROL JOINT
                      COMPLETE JOINT PENETRATION WELD
                      CENTER LINE
                      CLEAR
COL.
                      COLUMN
CONC.
                      CONCRETE
                      CONCRETE MASONRY UNIT
COND.
                      CONDITION
CONN.
                      CONNECTION
CONSTR.
                      CONSTRUCTION
CONT'D
                      CONTINUED
CONT.
                      CONTINUOUS
CONTR.
                      CONTRACTOR
CSK.
                      COUNTERSINK
                      DEAD LOAD
                      DEEP
                      DEMOLISH
                      DETAIL
                      DIAGONAL
DIA. OR Ø
                      DIAMETER
                      DIMENSION
                      DOUBLE
                      DOUGLAS FIF
                      DOWEL
                      DOWN
                      DRAWING
                      EACH
                      EACH FACE
                      EACH SIDE
                      EACH WAY
                      EDGE NAIL(S)
                      ELECTRICAL
ELEV.
EMBED.
                      ELEVATION
                      EMBEDMENT
                      ENGINEER
                      EQUAL
                      EQUIPMENT
                      EXCAVATION
                      EXISTING
                      EXPANSION
                      EXPANSION JOINT
                      EVALUATION SERVICE
                      EVALUATION SERVICE REPORT
EXT.
                      EXTERIOR
F.O.C.
                      FACE OF CONCRETE
F.O.M.
                     FACE OF MASONRY
F.O.S.
                      FACE OF STUD OR FACE OF SLAB
                     FAR SIDE
                      FINISH
                      FINISHED FLOOR
                      FLAT HEAD WOOD SCREW
                      FLOOR DRAIN
                      FOOTING
                      FOUNDATION
FNDN.
FRMG.
                      FRAMING
GALV.
                      GALVANIZE
                      GLUED LAMINATED
GLU-LAM
                      GLUED LAMINATED BEAM
                      GRADE
                      HANGER
                      HARDROCK
                      HEADER
                      HEIGHT
                      HOLD DOWN
                      HOLLOW STRUCTURAL SECTION
HORIZ
                      HORIZONTAL
INFO.
                      INFORMATION
                      INSIDE DIAMETER
                      INTERNATIONAL BUILDING CODE
                      INTERNATIONAL CODE COUNCIL
                      JOIST
                      KING POST
                      KIPS PER SQUARE INCH
                      LAMINATED
                      LEDGER
LT. WT. OR LW
                     LIGHT WEIGHT
                      LIVE LOAD
                      LONG OR LENGTH
                      LONG LEG HORIZONTAL
                      LONG LEG VERTICAL
LO-HY
                      LOW HYDROGEN
                      MACHINE BOLT(S)
                      MANUFACTURER
                      MASONRY
                      MASONRY OPENING
                      MATERIAL
                      MAXIMUM
                      MECHANICAL
                      METAL
                      MINIMUM
MISC.
                     MISCELLANEOUS
                      MECHANICAL UNIT
                      NEAR FACE
                      NEAR SIDE
                      NELSON STUD ANCHOR
                      NEW
                      NOT IN CONTRACT
                      NOT TO SCALE
NO. OR #
                      NUMBER
                      ON CENTER
OPNG.
                      OPENING
                      OPPOSITE
                      OPPOSITE HAND
                      OUTSIDE DIAMETER
                      PAN HEAD WOOD SCREW
                      PANEL JOINT
                      PENNY
                      PILASTER
                     PLATE (STEEL OR WOOD)
PL. OR PL
                      PLYWOOD
                      PLYWOOD WEB JOIST
PWJ
                      POUNDS PER CUBIC FOOT
                      POUNDS PER SQUARE FOOT
                      POUNDS PER SQUARE INCH
                      PRESSURE TREATED
                      PRESSURE TREATED DOUGLAS FIR
PTDF
                      PROPERTY LINE
RAD.
                      RADIUS
RFTR.
                      RAFTER
                      REFERENCE
REINF.
                      REINFORCING
                     REQUIRED
REQ'D
REQMT.
                      REQUIREMENT
                      ROOF
                      ROOF DRAIN
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LIST OF ABBREVIATIONS (CONT'D)
                     ROUGH
ROUGH OPENING
R.O.
SCHED.
SEC.
                      SCHEDULE
                       SECTION
                       SELECT
SEP.
                      SEPARATION
SFRS.
SHTG.
                      STRUCTURAL FORCE RESISTING SYSTEM
                      SHEATHING
                      SHEET
                      SHEET METAL
                      SHEET METAL SCREWS
SIMP.
                      SIMPSON
                      SPACING
SPECS.
                      SPECIFICATION
                       SQUARE
STGR.
                      STAGGER
                      STAINLESS STEEL
                       STANDARD PIPE COLUMN
                      STANDARD
                      STEEL
STIFF.
                      STIFFENER
STIRR.
                      STIRRUP
STRUCT.
                      STRUCTURAL
                      SYMMETRICAL
SYM.
                       TAPERED STEEL GIRDER
                      1,000 POUNDS
K OR KIP
                       THROUGH
THRU
                      TOE NAIL
                      TONGUE AND GROOVE
T&G
                      TOP AND BOTTOM
T.O.F.
                      TOP OF FOOTING
T.O.L.
T.O.S.
                      TOP OF LEDGER
                      TOP OF STEEL OR TOP OF SHEATHING
T.O.W.
                      TOP OF WALL
                      TOTAL LOAD
                      TUBE STEEL
                      TYPICAL
TYP.
U.N.O.
                      UNLESS NOTED OTHERWISE
                      VERIFY IN FIELD
VERT.
                      VERTICAL
                      WEIGHT
WWF
                      WELDED WIRE FABRIC
                      WITH
                      WITHOUT
                      WOOD-I-JOIST
                      WORK POINT
                      WOOD SCREW
GENERAL
1. THESE STRUCTURAL DRAWINGS AND SPECIFICATIONS, INCLUDING ANY
    ADDENDA (COLLECTIVELY "THE PLANS") INCORPORATE ALL LEGAL AND INDUSTRY
    REQUIREMENTS AND STANDARDS INCLÚDING WITHOUT LIMITATION THE FOLLOWING:
   • THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1 (CALIFORNIA
       ADMINISTRATIVE CODE), 2019 EDITION.
   • THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CALIFORNIA
      BUILDING CODE), 2019 EDITION.

    OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION

       OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL
       SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND
       SPECIFICATIONS.

    THE FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA

      CIVIL CODE (THE \squareRIGHT TO REPAIR ACT\square).

    THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY

       INCORPORATED PRODUCTS.

    THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES

       AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
2. THE PLANS REPRESENT ONLY THE FINISHED STRUCTURE, AND THEY ARE NOT
    INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS,
    TECHNIQUES, SEQUENCES OR PROCEDURES. IN PARTICULAR AND WITHOUT
    LIMITATION, THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR
    ANY AND ALL EXCAVATION, DEMOLITION, SHORING AND ERECTION PROCEDURES AND
   FOR ANY AND ALL SAFETY PROGRAMS AND PRECAUTIONS.
3. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE
    CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION
    DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT
    DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE STRUCTURAL WORK, EVEN
    REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER
    TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN
    DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY
    THE MORE STRINGENT REQUIREMENT.
4. IN INTERPRETING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:

    WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.

    SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES

       AND TYPICAL DETAILS.

    WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS

      SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED.

    SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE

       CONSIDERED ONLY APPROXIMATE.
5. IN IMPLEMENTING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:

    BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR

       CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND
       DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY
       APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND
       OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED; AND THE CONTRACTOR IS
       REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS
       AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN
       APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AND ASSUMES
       THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR
       OTHERWISE PROCEEDING.

    THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO

       STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY
       DISCREPANCIES OR INCONSISTENCIES.
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6. SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER, IF AT ALL, ONLY

7. IN NO EVENT WILL ANY SITE VISITS BY THE STRUCTURAL ENGINEER CONCERN

MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

8. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY

LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED

TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW

AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE

FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO

RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A

SUBMITTAL.

SOLE RISK.

PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR

LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE

CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH

OR ON BEHALF OF STRUCTURAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT

THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE,

PLAGIARISM. STRUCTURAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC

GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE, AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR

THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S

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PROJECT DESIGN CRITERIA
1. BASIC DESIGN LOADS:
```

ROOF LIVE LOAD: 20 PSF (REDUCIBLE) (E) ROOF DEAL LOAD, BLDG. A, B, C, D, E: 17 PSF RAIN LOADS

RAIN INTNESITY, i = 2.50 IN/HR

3. SNOW LOADS GROUND SNOW LOAD,  $P_G = 0$ 

4. WIND LOADS RISK CATEGORY: III EXPOSURE CATEGORY: C BASIC DESIGN WIND SPEED (3-SECOND GUST), V = 102 MPH VELOCITY PRESSURE EXPOSURE COEFFICIENT,  $K_7 = 0.85 (0-15 \text{ FT})$ TOPOGRAPHIC FACTOR,  $K_{Zt} = 1.0$ WIND DIRECTIONALITY FACTOR,  $K_d = 0.85$ GROUND ELEVATION FACTOR, Ke = 1.00 GUST EFFECT FACTOR, G = 0.85

A. WIND ON ROOFTOP EQUIPMENT (ASCE 7-16, CH. 29)  $q_h = 0.00256 K_Z K_{Zt} K_d V_{ULT}^2 = 19.24 PSF$  $F_h = q_h$  (GCr) Af = 36.56 PSF x Af LATERAL = 28.86 PSF x Af UPLIFT

COEFFICIENT FOR LATERAL, (GCr) = 1.9COEFFICIENT FOR UPLIFT, (GCr) = 1.5

5. EARTHQUAKE LOADS

SEISMIC DESIGN CRITERIA  $S_S = 1.564$  $S_1 = 0.583$ SITE CLASS: D  $F_{A} = 1.2$  $F_{\rm V} = 1.717$  $S_{DS} = 1.251$  $S_{01} = 0.667$ RISK CATEGORY: III SEISMIC DESIGN CATEGORY: D

SEISMIC DESIGN FORCE

SEISMIC DESIGN REQUIREMENTS NON-STRUCTURAL COMPONENTS

04a<sub>p</sub>S<sub>DS</sub>W<sub>P</sub>  $F_{p} = ----- (1+2 \frac{7}{6})$  $(R_P/I_P)$ FP IS NOT REQUIRED TO BE TAKEN AS GREATER THAN

 $F_P = 1.6S_{DS}I_PW_P$ AND Fo SHALL NOT BE TAKEN AS LESS THAN

 $F_P = 0.3S_{DS}I_PW_P$ AC UNITS"  $a_p = 2.6$ ,  $R_P = 6$  [ASCE 7-16 TABLE 13.6-1]  $I_P = 1.0 [ASCE 7-16 13.1.3]$ 

#### **DIMENSIONS**

BOLTS

- 1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).
- 2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
- 3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT NOTED ON STRUCTURAL
- 4. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
- 5. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.
- 6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

#### **EXISTING CONDITIONS**

- 1. ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE
- 2. WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- 3. PER AS-BUILTS, ALL (E) STRUCTURAL LUMBER IS DOUGLAS FIR OF THE FOLLOWING GRADES: STRUCTURAL LIGHT FRAMING 2"-4" THICK, 2" TO 4" WIDE, NO.2 Fb = 1450psi STRUCTURAL JOISTS & PLANKS 2"-4" THICK 5" & WIDER, NO. 1 Fb = 1500psi
- 4. PER AS-BUILTS, (E) STRUCTURAL STEEL PROPERTIES CONFORM TO THE FOLLOWING: STRUCTURAL SHAPES, PLATES ASTM A-36 ASTM 1-53 GRADE B PIPE COLUMNS ASTM A-500 GRADE B STEEL TUBE ASTM A307

#### STRUCTURAL STEEL AND MISCELLANEOUS METAL 1. ALL PORTIONS OF WORK PERTAINING TO STRUCTURAL STEEL CONSTRUCTION SHALL

- CONFORM TO TITLE 24, PART 2, CHAPTER 22A. 2. BOLTS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
- MISCELLANEOUS CONNECTIONS: ASTM A-307

3. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL

- 4. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 5. ALL WELDING SHALL CONFORM TO THE STRUCTURAL WELDING CODE STEEL, AWS D1.1 AND STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT AWS D1.8, BY THE AMERICAN WELDING SOCIETY. WELDING RODS SHALL BE E70XX.
- 6. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.

CONFORM TO ASTM A-500, GRADE B.

7. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL ITEMS, INCLUDING CONNECTORS, EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED, AFTER FABRICATION.

#### COLD-FORMED STEEL FRAMING

- 1. ALL PORTIONS OF WORK PERTAINING TO COLD-FORMED STEEL CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 22A.
- 2. ALL SHEET METAL SCREWS SHALL PROTRUDE 3 EXPOSED THREADS MINIMUM THROUGH BASE METAL FRAMING. SHEET METAL SCREWS SHALL BE PER ICC ESR-3223 OR EQUIVALENT.
- 3. ALL LIGHT GUAGE METAL FRAMING SHALL BE GALVANIZED AND SHALL CONFORM TO ASTM A-653 SS. GRADE 50. CLASS 1. WITH A MINIMUM YIELD STRENGTH OF 50 KSI FOR 16 GUAGE AND HEAVIER FRAMING, AND ASTM A-653 SS, GRADE 33, WITH A MINIMUM YIELD STRENGTH OF 33 FOR 18 GAUGE AND LIGHTER FRAMING.
- 4. WELDING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE SHEET STEEL, AWS D1.3, BY THE AMERICAN WELDING SOCIETY.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-119844 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹



**SOUTHERN CALIFORNIA** 8163 ROCHESTER AVENUE, SUITE 100

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LISA COX).

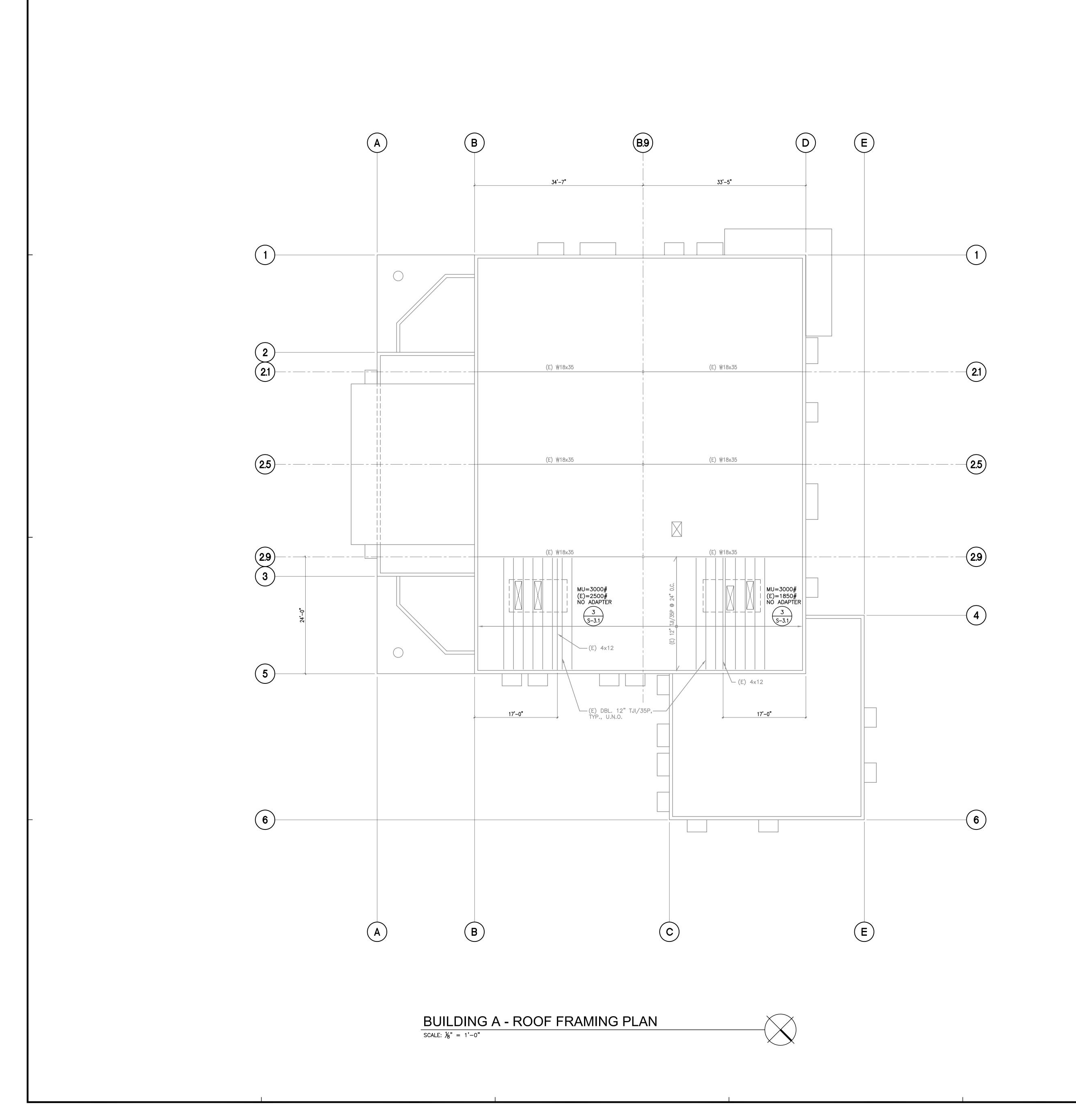


NO	DATE	BY	DESCRIPTION		
<u></u>	REVISIONS				

CHECKED: JR DRAWN: NP SCALE: **DATE:** 03/10/2021 PROJECT NUMBER: 1726300

**GENERAL NOTES** 

DRAWING NUMBER:



- 1. SEE SHEET SO.1 FOR GENERAL NOTES.
- MU INDICATES NEW MECHANICAL UNIT. EXISTING WEIGHT OF UNIT BEING REPLACED IS SHOWN. USE OF ADAPTER CURB WHERE APPLICABLE IS INDICATED. WEIGHT INCLUDES NEW UNIT PLUS ACCESSORIES AND ADAPTER CURB WHERE OCCURS. FOR WEIGHT OF (E) CURB, SEE MECHANICAL DRAWINGS.
- 3. SEE MECHANICAL DRAWINGS FOR ADDITIONAL UNIT INFORMATION.
- 4. ALL FRAMING IS EXISTING. ANY DIMENSIONS NOTED ARE FOR INFORMATION ONLY AND SUBJECT TO FIELD VERIFICATION.
- 5. WHERE EXISTING TJI/35P HAVE BEEN REPLACED WITH STANDARD STRUCTURES JOISTS, EQUIVALENT SERIES IS SSI 324 (SAME DEPTH AS SHOWN FOR TJI).

### LEGEND

: INDICATES EXISTING SPAN OF JOISTS

: INDICATES EXISTING EXTENT OF JOISTS.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 04-119844 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 12/22/2021



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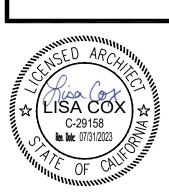
J <u>C</u>

HVAC REPLACEMENT

SIETA VALLEY UNIFIED SCHOOL I

24040 HAYES AVENUE

MURRIETA, CA 92562



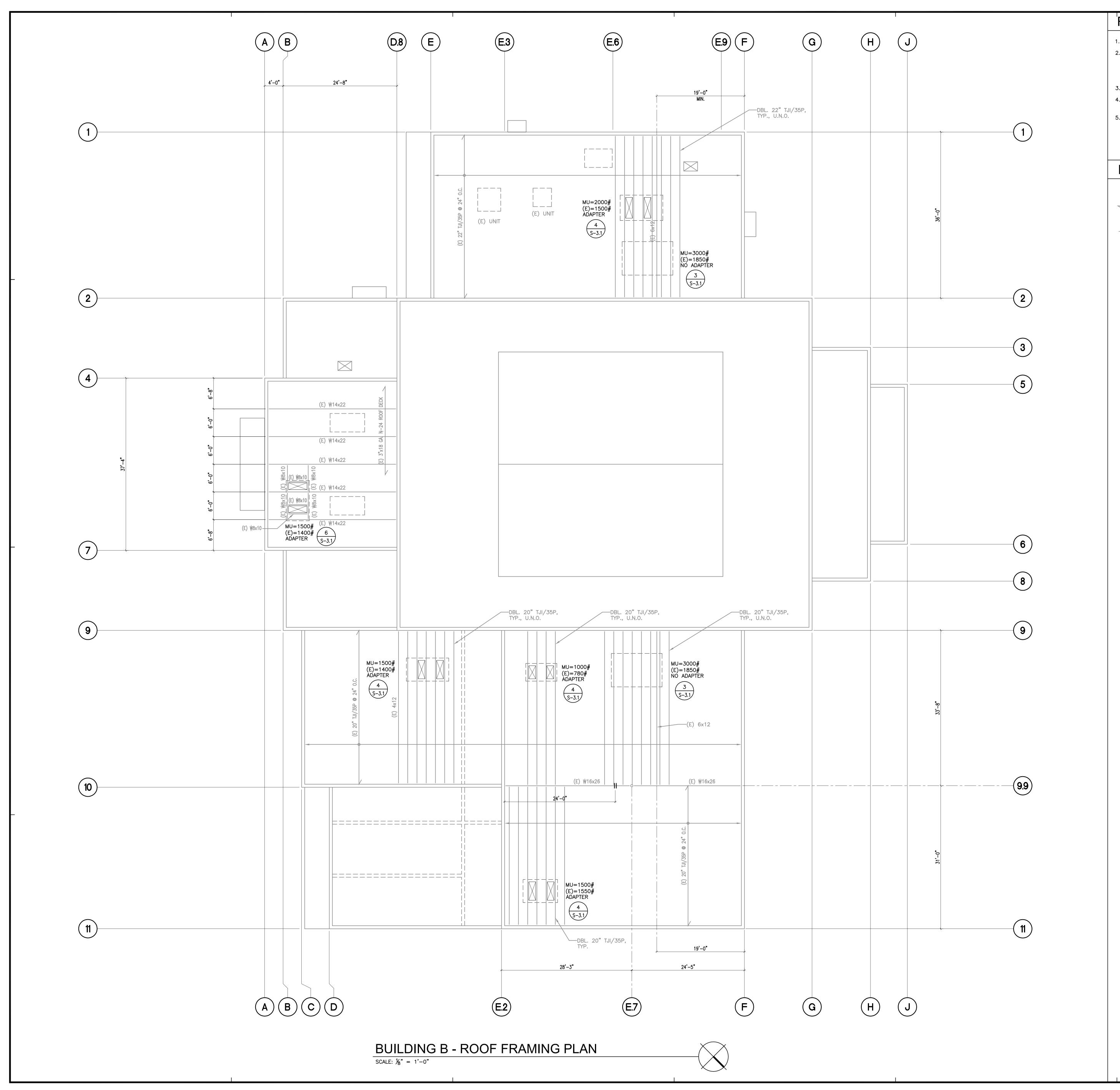


DATE	BY	DESCRIPTION
REVISIONS		

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DATE:	03/10/2021	SCALE:
PROJE	CT NUMBER:	1726300

ROOF FRAMING PLAN BLDG. A

PRAWING S-2.A



- 1. SEE SHEET SO.1 FOR GENERAL NOTES.
- 2. MU INDICATES NEW MECHANICAL UNIT. EXISTING WEIGHT OF UNIT BEING REPLACED IS SHOWN. USE OF ADAPTER CURB WHERE APPLICABLE IS INDICATED. WEIGHT INCLUDES NEW UNIT PLUS ACCESSORIES AND ADAPTER CURB WHERE OCCURS. FOR WEIGHT OF (E) CURB, SEE MECHANICAL DRAWINGS.
- 3. SEE MECHANICAL DRAWINGS FOR ADDITIONAL UNIT INFORMATION.
- 4. ALL FRAMING IS EXISTING. ANY DIMENSIONS NOTED ARE FOR INFORMATION ONLY AND SUBJECT TO FIELD VERIFICATION.
- 5. WHERE EXISTING TJI/35P HAVE BEEN REPLACED WITH STANDARD STRUCTURES JOISTS, EQUIVALENT SERIES IS SSI 324 (SAME DEPTH AS SHOWN FOR TJI).

## LEGEND

- : INDICATES EXISTING SPAN OF JOISTS OR METAL DECK
- : INDICATES EXISTING EXTENT OF JOISTS.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

REVIEWED FOR

SS FLS ACS

APP: 04-119844 INC:

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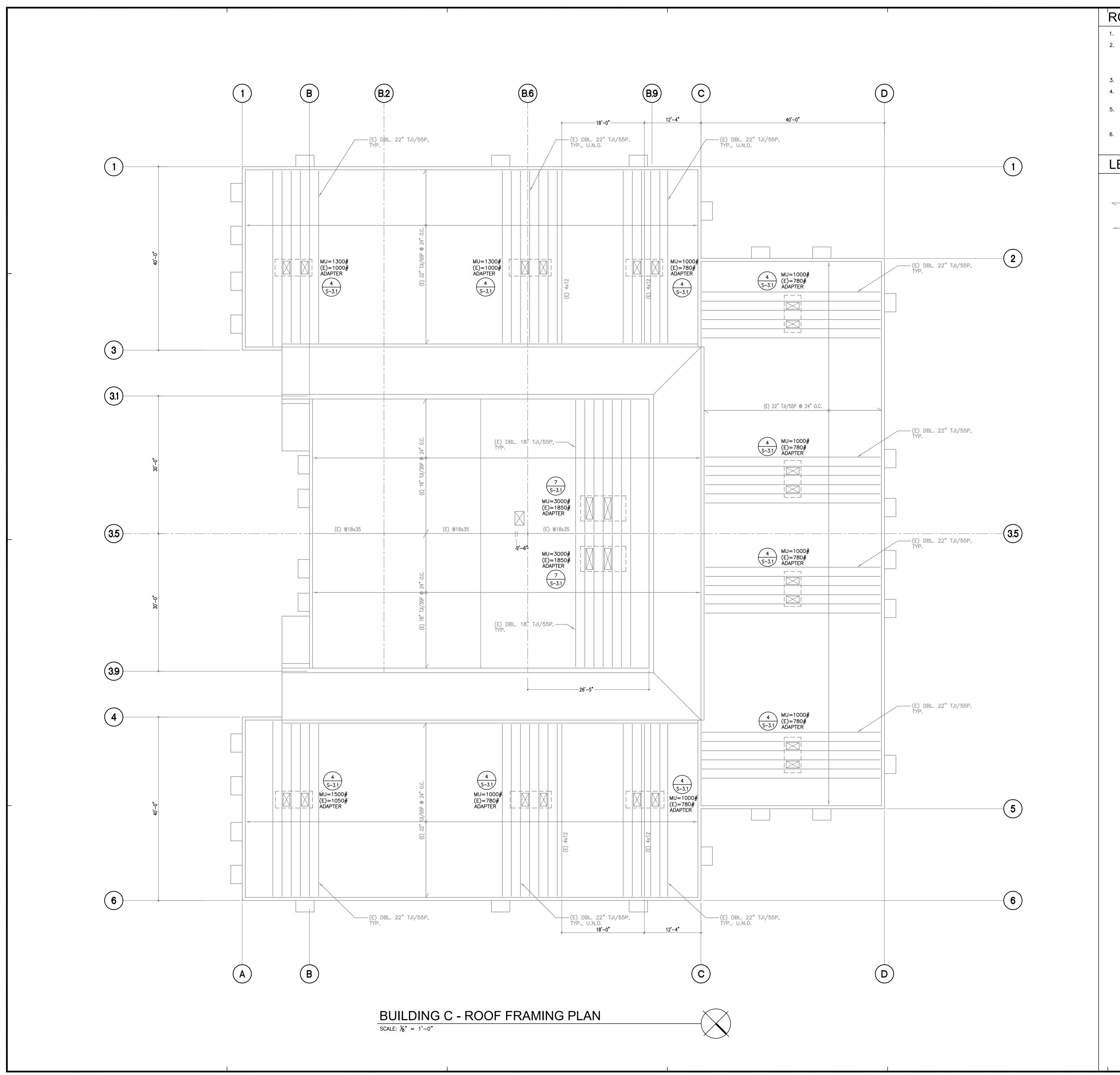


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PROJE	CT NUMBER: 1	726300

ROOF FRAMING PLAN BLDG. B

DRAWING NUMBER: S-2.B



- 1. SEE SHEET SO.1 FOR GENERAL NOTES.
- MU INDICATES NEW MECHANICAL UNIT. EXISTING WEIGHT OF UNIT BEING REPLACED IS SHOWN. USE OF ADAPTER CURB WHERE APPLICABLE IS INDICATED. WEIGHT INCLUDES NEW UNIT PLUS ACCESSORIES AND ADAPTER CURB WHERE OCCURS. FOR WEIGHT OF (E) CURB, SEE MECHANICAL DRAWINGS.
- 3. SEE MECHANICAL DRAWINGS FOR ADDITIONAL UNIT INFORMATION.
- 4. ALL FRAMING IS EXISTING. ANY DIMENSIONS NOTED ARE FOR INFORMATION ONLY AND SUBJECT TO FIELD VERIFICATION.
- 5. WHERE EXISTING TJI/35P HAVE BEEN REPLACED WITH STANDARD STRUCTURES JOISTS, EQUIVALENT SERIES IS SSI 324 (SAME DEPTH AS SHOWN FOR TJI).
- 6. WHERE EXISTING TJI/55P HAVE BEEN REPLACED WITH STANDARD STRUCTURES JOISTS, EQUIVALENT SERIES IS SSI 424 (SAME DEPTH AS SHOWN FOR TJI).

#### LEGEND

: INDICATES EXISTING SPAN OF JOISTS

: INDICATES EXISTING EXTENT OF JOISTS.

**ARCHITECTS** CLIENT FOCUSED • PASSION DRIVEN

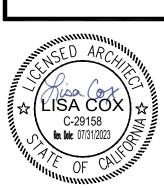
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REVIEWED FOR SS FLS ACS

APP: 04-119844 INC:

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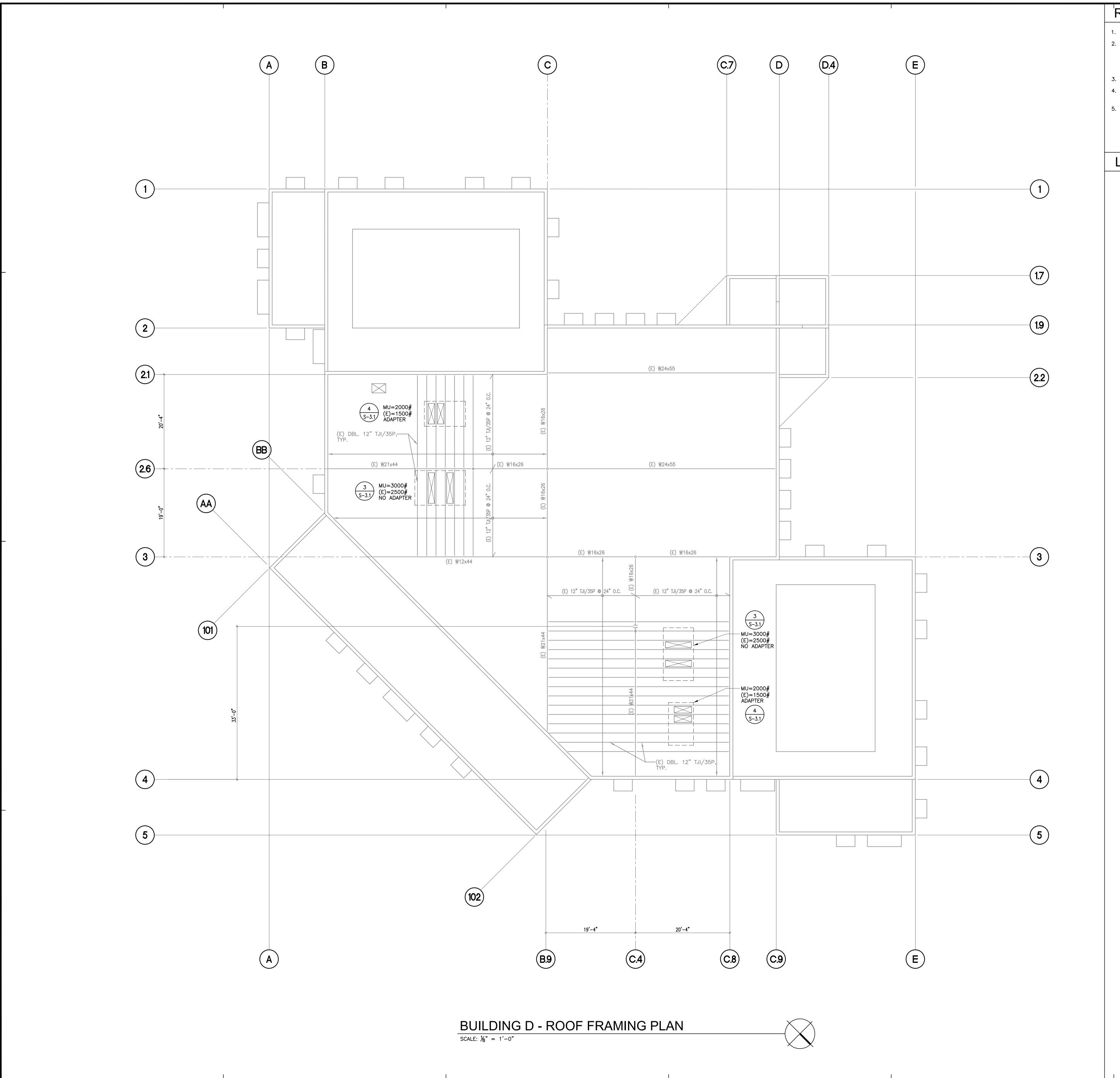


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<b>DATE</b> : 03/10/2021	SCALE:			
PROJECT NUMBER: 1726300				

ROOF FRAMING PLAN BLDG. C

S-2.C DRAWING NUMBER:



1. SEE SHEET SO.1 FOR GENERAL NOTES.

2. MU INDICATES NEW MECHANICAL UNIT. EXISTING WEIGHT OF UNIT BEING REPLACED IS SHOWN. USE OF ADAPTER CURB WHERE APPLICABLE IS INDICATED. WEIGHT INCLUDES NEW UNIT PLUS ACCESSORIES AND ADAPTER CURB WHERE OCCURS. FOR WEIGHT OF (E) CURB, SEE MECHANICAL DRAWINGS.

3. SEE MECHANICAL DRAWINGS FOR ADDITIONAL UNIT INFORMATION.

 ALL FRAMING IS EXISTING. ANY DIMENSIONS NOTED ARE FOR INFORMATION ONLY AND SUBJECT TO FIELD VERIFICATION.

 WHERE EXISTING TJI/35P HAVE BEEN REPLACED WITH STANDARD STRUCTURES JOISTS, EQUIVALENT SERIES IS SSI 324 (SAME DEPTH AS SHOWN FOR TJI).

LEGEND

: INDICATES EXISTING SPAN OF JOISTS

: INDICATES EXISTING EXTENT OF JOISTS.

ARCHITECTS

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APP: 04-119844 INC:

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RANCHO CUCAMONGA CALIFORNIA 91730-0729 TEL: 909-987-0909

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CEMENT

SCHOOL DISTRICT

ETA VALLEY UNIFIED SC 24040 HAYES AVEN MURRIETA, CA 925



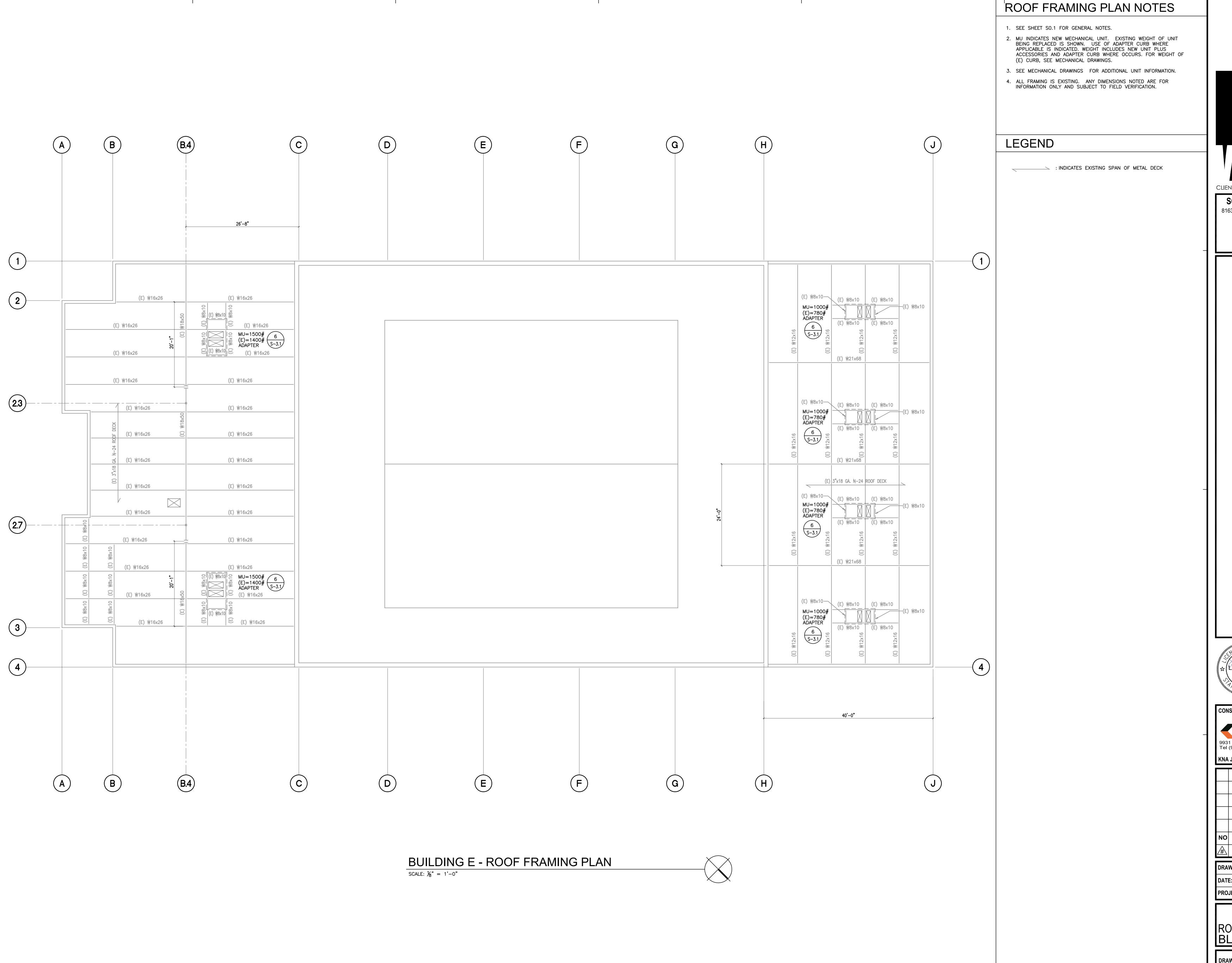


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PROJEC	T NUMBER: 1	726300

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# PSON MIDDLE SCHOO 'AC REPLACEMENT VALLEY UNIFIED SCHOOL DISTR



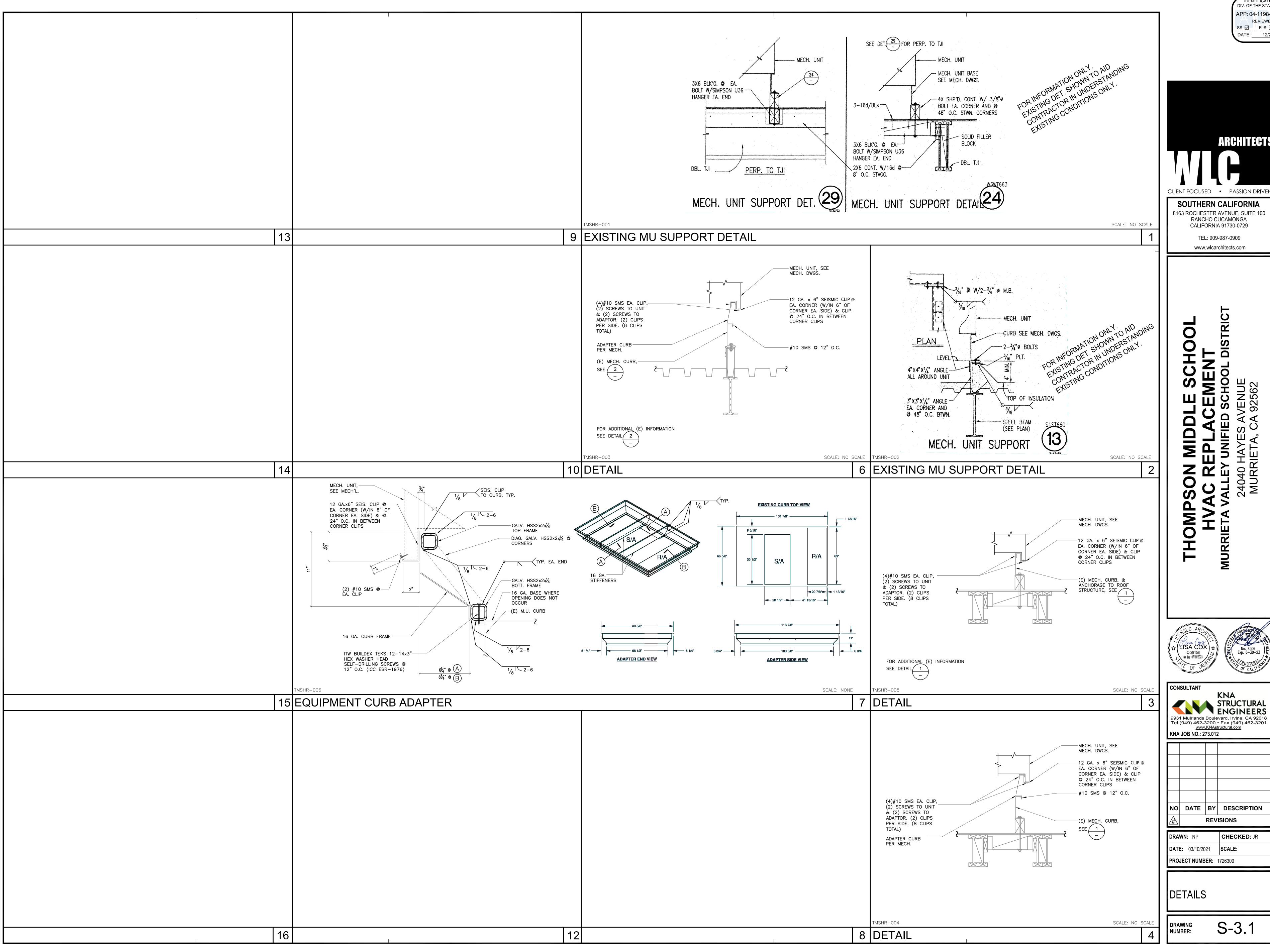


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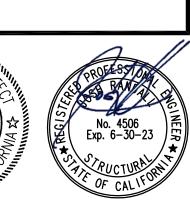
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#### DSA NOTES

#### 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:

ALL PERMANENT EQUIPMENT AND COMPONENTS. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTÍLITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHÁLL 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 MATTER APPROVED BY DSA.

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 HAVING 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 WALL.

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 REQUIREMENTS.

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 LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): 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 OSHPD PRE-APPROVED (OPM#) #0052-13 (B-LINE /

# PROJECT SHEET INDEX

M-0.1	MECHANICAL LEGEND, NOTES AND SHEET INDEX
M-0.2	MECHANICAL TITLE 24 CALCULATIONS
M-0.3	MECHANICAL TITLE 24 CALCULATIONS
M-0.4	MECHANICAL TITLE 24 CALCULATIONS
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M-1.1	MECHANICAL SCHEDULES
M-2.A	MECHANICAL ROOF PLAN - BLDG A
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M-5.1	MECHANICAL DETAILS

#### GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH CITY CODES, 2019 CALIFORNIA BUILDING CODE, 2019 CALIFORNIA MECHANICAL CODE, 2019 CALIFORNIA ENERGY CODE, 2019 CALIFORNIA FIRE CODE, 2019 CALIFORNIA GREEN BUILDING STANDARDS, NFPA 90 & 91, STATE AND LOCAL FIRE DEPARTMENT REGULATIONS, AND ALL OTHER APPLICABLE CODES AS SHOWN ON SHEET G1.1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, EQUIPMENT, AREAS, AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANYDEMOLITION AND/OR NEW WORK.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION, AND SERVICES NECESSARY FOR THE COMPLETION OF THE WORK. ALL MATERIALS & WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND GOVERNING REGULATIONS AND SHALL MEET WITH THE APPROVAL OF THE CITY AND STATE FIRE MARSHALL.
- ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, AIR CONDITIONING, PLUMBING, AND ELECTRICAL. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION MAY BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER.
- DO NOT SCALE DRAWINGS ALL DIMENSIONS AND JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF CONSTRUCTION AND / OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
- CONTRACTOR SHALL COORDINATE ALL DUCT, PIPE AND EQUIPMENT LOCATIONS WITH PLUMBING, ELECTRICAL, STRUCTURAL, AND ALL OTHER TRADES.
- ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED & TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS AND PROCEDURES DETAILED IN THE A.S.H.R.A.E. HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY S.M.A.C.N.A. PROVIDE RECTANGULAR DUCTS OF GALVANIZED STEEL & PREFABRICATED SPIRAL LOCKSEAM DUCTS AND FITTINGS.
- DUCT MATERIALS SHALL COMPLY WITH ANSI/SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS -METAL AND FLEXIBLE, 3RD EDITION.
- PROVIDE DUCT MANUAL VOLUME DAMPERS IN EACH BRANCH DUCT AND IN EACH MAIN DUCT TO PROVIDE FOR COMPLETE AIR BALANCE OF THE SYSTEM. PROVIDE ADEQUATE ACCESS AND IDENTIFICATION.
- WHERE INTERNAL ACOUSTICAL DUCT LINER IS INDICATED, DUCT DIMENSIONS ARE NET CLEAR e.g. AFTER LINER HAS BEEN INSTALLED.
- ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENTLY WITH THE REQUIREMENTS OF SECTIONS 120.3, 120.4, & 120.7 OF THE 2019 ENERGY EFFICIENCY STANDARDS (E.E.S.) AND TABLES 503.7.1(10) AND 503.7.1(11) OF 2019 C.M.C.
- INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 OF E.E.S.
- ROOM THERMOSTATS SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55 °F. TO 85 °F. AND BE CAPABLE OF OPERATING THE HEATING AND COOLING IN SEQUENCE. THERMOSTATS SHALL BE ADJUSTABLE TO PROVIDE A TEMPERATURE RANGE OF UP TO 10°F. BETWEEN FULL HEATING AND FULL COOLING BEING SUPPLIED. CONTROLS SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NOT MORE THAN 70 °F. AND COOLING AT A TEMPERATURE NOT LESS THAN 78° F.
- TEMPERATURE CONTROL SYSTEM SHALL OPERATE IN ACCORDANCE WITH THE BASE BUILDING SEQUENCE OF OPERATION.
- WALL MOUNTED THERMOSTATS SHALL BE MOUNTED 48" A.F.F. TO THE HIGHEST OPERABLE PART. TEMPERATURE SENSORS SHALL BE WALL MOUNTED 60" A.F.F.
- PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCTS OF AIR MOVING SYSTEMS EXCEEDING 2000 CFM PER SECTION 608.0 2019 CMC.
- OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 25 FEET AWAY FROM EXHAUST OUTLETS. PLUMBING VENTS, COOLING TOWERS, COMBUSTION EQUIPMENT STACKS, AREAS THAT MAY COLLECT VEHICULAR EXHAUST OR OTHER NOXIOUS FUMES, AND OTHER SOURCES OF CONTAMINATION.
- 18. HVAC UNITS SHUTDOWN TO BE ACCOMPLISHED USING THE BUILDING'S FIRE ALARM SYSTEM.
- SEE PLUMBING DRAWINGS FOR PRIMARY AND SECONDARY CONDENSATE DRAINS.
- NO COMBUSTION VENTS, DRYER VENTS, RANGE HOOD VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
- 21. MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH SECTION 602.2 OF 2019 C.M.C.
- ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION. COORDINATE DUCTWORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.
- 23. SEE ARCHITECTURAL DRAWINGS FOR ROOF ACCESS AND ADDITIONAL ENERGY CONSERVATION NOTES.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING DIFFUSERS AND GRILLES. 25. ALL CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS SHOWN OTHERWISE.
- PACKAGED A.C. UNITS: A FULLY INTEGRATED ECONOMIZER MUST BE PROVIDED FOR EACH SYSTEM DELIVERING OVER 54,000 BTU/HR COOLING.
- AIRCRAFT CABLE SHALL BE PRE-STRETCHED.
- 28. ALL H.V.A.C. SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTIONS 110.2 AND 120.2 OF E.E.S.
- ALL H.V.A.C. EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1-110.3, 110.5, 120.1-120.4 TITLE 24 ENERGY STANDARDS.
- 30. H.V.A.C. EQUIPMENT AND SYSTEMS SHALL MEET THE ACCEPTANCE REQUIREMENTS PER SECTION 120.5 OF 2016 E.E.S. AS SPECIFIED BY THE REFERENCE NONRESIDENTIAL APPENDIXEMATIFICATE OF ACCEPTANCAIND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED BY CONTRACTOR TO THE CITY INSPECTOR DURING CONSTRUCTION AND PRIOR TO OCCUPANCY.
- A COMPLETE REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN, CONSTRUCTION, AND REPORTING RECOMMENDATIONS FOR POST-CONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE.
- ISOLATE ALL HVAC REFRIGERANT PIPES SIZE 1-1/4" AND LARGER WITHIN MECHANICAL EQUIPMENT ROOMS. OUTSIDE EQUIPMENT ROOMS THIS PIPING SHALL BE ISOLATED FOR THE GREATER OF 50 FT. OR 100 PIPE DIAMETERS FROM ROTATING EQUIPMENT. THE FIRST THREE PIPE SUPPORTS SHALL HAVE COMBINATION SPRING AND RUBBER ISOLATION HANGERS WITH THE SAME DEFLECTION AS THE EQUIPMENT ISOLATORS. ALL OTHER ISOLATED PIPING WITHIN EQUIPMENT ROOMS SHALL BE ISOLATED WITH A 3/4" MINIMUM DEFLECTION
- SYSTEMS CONTAINING ECONOMIZERS: ECONOMIZER TO HAVE INTEGRATED CONTROLS THAT PROVIDE PARTIAL COOLING DURING ECONOMIZER MODE WHEN ADDITIONAL MECHANICAL COOLING WOULD BE REQUIRED TO MEET ROOM TEMPERATURE SETPOINT. ECONOMIZER TO COME COMPLETE WITH DIRECT DRIVE ACTUATOR.
- ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUS MUST BE INSTALLED, SEALED AND INSULATED PER 2019 C.E.C. SECITON 120.4(a).
- ALL DUCTWORK SHALL BE SEALED TO A LEAKAGE RATE NOT TO EXCEED 6% OF THE NOMINAL AIR HANDLER AIRFLOW RATE. TO BE CONFIRMED THROUGH FIELD VERIFICATION AND DIAGNOSTIC TESTING DURING CXA PER 2019 C.E.C. SECTION 140.4(I).

# MECHANICAL DEMOLITION NOTES

- FIELD VERIFY AND REVIEW WITH THE ENGINEER EXISTING AND ABANDONED PIPING, DUCTWORK, MECHANICAL EQUIPMENT, CONTROLS AND THERMOSTATS. EXISTING DUCTWORK, MECHANICAL EQUIPMENT, CHILLED WATER, HEATING HOT WATER AND CONDENSATE PIPING, CONTROLS EQUIPMENT AND TUBING WHICH IS NOT INDICATED FOR REUSE SHALL BE DEMOLISHED AND REMOVED. ABANDONED MECHANICAL EQUIPMENT, DUCTWORK AND PIPING SHALL BE DEMOLISHED AND REMOVED. ABANDONED CONTROLS ACTUATORS. TUBING & WIRING. THERMOSTATS AND CONTROL PANELS SHALL BE DEMOLISHED AND REMOVED. ALL ABANDONED MECHANICAL CURBS AND PLATFORMS INCLUDING BUT NOT LIMITED TO CONCRETE, WOOD & STEEL SHALL BE DEMOLISHED AND
- FIELD VERIFY SIZES OF ALL EXISTING DUCTWORK SHOWN TO REMAIN AND BE REUSED. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- PATCH. INFILL AND REPAIR WITH LIKE MATERIALS TO NEW CONDITION ALL EXISTING MECHANICAL EQUIPMENT. CHILLED AND HOT WATER PIPING, DUCTWORK, PNEUMATIC TUBING AND CONDENSATE PIPING PENETRATIONS WHICH ARE NOT BEING REUSED OR WHICH HAVE BEEN DEMOLISHED. WHERE MECHANICAL CURBS & PLATFORMS HAVE BEEN DEMOLISHED, THE CONTRACTOR SHALL REPAIR, REFINISH, AND RESTORE ALL SURFACES & ADJOINING SURFACES TO A LEVEL, FLUSH AND UNIFORM APPEARANCE. FOR DEMOLISHED ROOF MOUNTED EQUIPMENT THE CONTRACTOR SHALL PATCH THE ROOF WITH LIKE MATERIALS ACCORDING TO THEIR RESPECTIVE ARCHITECTURAL
- THE EXTENDED SCOPE OF DEMOLITION AND NEW WORK WILL REQUIRE CLOSE COORDINATION BETWEEN ALL TRADES. EXISTING UTILITIES TO REMAIN. SUCH AS CABLE TRAYS, CONDUIT, FIRE PROTECTION PIPING, ETC MAY HAVE TO BE RELOCATED OR ALTERED TO INSTALL NEW UTILITIES. CONTRACTOR SHALL TAKE PROVISIONS FOR THIS FACT AND IDENTIFY CONFLICTS AND PROPOSE SOLUTIONS TO THE ARCHITECT BEFORE PROCEEDING WITH

# MECHANICAL LEGEND

	VIECH/	ANICAL LEGEND
SYMBOL	ABBREV.	DESCRIPTION
10 x 6 }	10 x 6	DUCTWORK (1ST NUMBER INDICATES SIDE SHOWN, DOUBLE OR SINGLE LINE)
	M.V.D.	MANUAL VOLUME DAMPER
	M.O.D.	MOTOR OPERATED DAMPER
	F.S.D.	COMBINATION FIRE AND SMOKE DAMPER
	F.C.	AUTOMATIC FIRE AND SMOKE DAMPER FLEXIBLE CONNECTION (DUCTWORK)
<u> </u>		LINED DUCTWORK (OR PLENUM)
		STAINLESS STEEL DUCTWORK (OR PLENUM)
<b>—</b>		RECTANGULAR DUCT UP
×		RECTANGULAR DUCT DOWN
		DUCT TRANSITION (RECTANGULAR TO ROUND)
HHHHA		FLEXIBLE DUCTWORK
X	S.A.	SUPPLY AIR DUCT
	R.A./O.A.	RETURN AIR DUCT/OUTSIDE AIR DUCT
<u> </u>	E.A.	EXHAUST AIR DUCT PIPE DOWN
O		PIPE UP
(T) <u>AC-1</u>	T'STAT	THERMOSTAT (NUMBER INDICATES EQUIPMENT OR ZONE SERVED)
€D } CHWR}	S.D. C.H.W.R.	SMOKE DETECTOR (DUCT MOUNTED) CHILLED WATER RETURN
} CHWS} } HHWR}	C.H.W.S. H.H.W.R.	CHILLED WATER SUPPLY
├── HHWS —-	H.H.W.S.	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY
<b>₹</b>	F.S.	FLOW SWITCH
	E.R.	ECCENTRIC REDUCER
	C.R. BL.V.	CONCENTRIC REDUCER  BALANCING VALVE
	B.V.	BALL VALVE
——Ф——	BF.V.	BUTTERFLY VALVE
	CH.V.	CHECK VALVE
	C.V. (2W) C.V. (3W)	CONTROL VALVE (2-WAY)  CONTROL VALVE (3-WAY)
	F.M.	ELECTROMAGNETIC FLOW METER
	A.F.C.V.	AUTOMATIC FLOW CONTROL VALVE
—— <u>——</u> ▶	F.C.V.	FLOW CONTROL VALVE
	P.R.V.	PRESSURE REDUCING VALVE
	P.I.C.V. (2W) P.S.V.	PRESSURE INDEPENDENT CONTROL VALVE (2-WAY) PRESSURE SUSTAINING VALVE
	G.V.	GATE VALVE
X	GL.V.	GLOBE VALVE
	T.D.V.	TRIPLE DUTY VALVE (COMB. SHUT-OFF, CHECK & BALANCING)
<u> </u>	P.R.V.	PRESSURE RELIEF VALVE
— <del>\</del>	P.G.	PRESSURE GAUGE WITH GAUGE COCK
	STR. B.F.	STRAINER W/ DRAIN VALVE & 3/4" HOSE END & CAP BLIND FLANGE
<u> </u>	TH.	THERMOMETER
<del>_</del>	T.W.	TEST WELL (PETE'S PLUG - PRESSURE AND/OR TEMPERATURE)
	U. A.L.	UNION ACOUSTICAL DUCT LINER
	A.F.F. C.F.M. CONC.	ABOVE FINISH FLOOR CUBIC FEET PER MINUTE
	CONTR. D.L.	CONCRETE CONTRACTOR ACOUSTICAL DUCT LINER
	DN. EXH.	DOWN EXHAUST
	FLR. FT.	FLOOR FEET OR FOOT
	H.O.A.	HANDS - OFF - AUTOMATIC
<b>\(\rightarrow\)</b>	ISO. L.O.D.	LIMIT OF DEMOLITION
•	O.A. P.O.C.	OUTSIDE AIR POINT OF CONNECTION
	QTY. REQ'D.	QUANTITY REQUIRED
	RET. SHT.	RETURN SHEET
	TYP.	TYPICAL
	U.N.O. U.T.R.	UNLESS NOTED OTHERWISE  UP THRU ROOF
	V.F.D. V.T.R.	VARIABLE FREQUENCY DRIVE VENT THRU ROOF
	W/ RTU	WITH ROOFTOP UNIT

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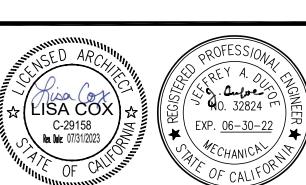
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EPL/





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DRAWN: RV CHECKED: JD **DATE**: 03/10/2021 **SCALE**:

PROJECT NUMBER: 1726200

**MECHANICAL LEGEND &** GENERAL NOTES

M-0.1

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A. C.   Control   A. C.   C	AC-6C	Unitary AC/ Condensers	AC, ai	ir-cooled pkg (3 ph	ase)	Controls	49	49	0	50.46	45.83
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AC						NA: Load					+
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Control   Cont		, ,				Controls					
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Name or   Fan Function   Qty   Maximum Design Supply Airflow   Gister   Design HP   Desi	CA Building Ener	A Systems  OMPLIANCE  AS AIR ECONOMIZERS  AC-1C Economic O2  Fan Function	izer: <sup>1</sup> 03 Qty M	Fixed Enthalpy 04 laximum Design Su <sub>l</sub> (CFM)	Repc Sche Sche	Report Pag Date Prepa  mizer rols:  HP Unit	9.1.003 20200601 e: red:	r <u>§140.4(e)</u> and (m) 06 Design HP	Sy:	stem Fan Ty 07 wer Pressui	CALIFORNIA  //pe:  re Drop Adju
Fan Function   Report Pressure Drop Adjust   Pan Function   Oty   Maximum Design Supply Airflow (CFM)   Pan Function   Design HP   Design HP   Design HP   Design HP   Device   Design HP	CA Building Ener	A Systems  OMPLIANCE  AC-1C Econom  O2  Fan Function  Supply	izer: <sup>1</sup> 03 Oty M:	Fixed Enthalpy  04  laximum Design Sul (CFM)  2400	Econc Cont pply Airflow	Report Pag Date Prepa  mizer De rols:  HP Unit BHP  System Desig (B)HP:	9.1.003 20200601 re: red:	r <u>§140.4(e)</u> and (m) 06  Design HP 0.92 0.92	Fan Po	stem Fan Ty 07 wer Pressur Device NA imum Syste	CALIFORNIA  /pe:  re Drop Adju  m Fan
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System   AC-3C   Economizer:   Fixed Enthalpy   Economizer   Designed per \$143.4(e) and   System Fan Type:   Controls:   Controls:   Designed per \$143.4(e) and   System Fan Type:   Controls:   Controls:   Designed per \$143.4(e) and   System Fan Type:   Controls:   Design HP   Des	CA Building Ener	A Systems  OMPLIANCE  AS & AIR ECONOMIZERS  AC-1C Econom  02  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  02	izer: <sup>1</sup> 03 Qty 1 //): izer: <sup>1</sup> 03	Fixed Enthalpy  04 laximum Design Su (CFM)  2400  2400  Fixed Enthalpy  04 laximum Design Su	Econc Cont pply Airflow	Report Pag Date Prepa  mizer rols:  BHP  System Desig (B)HP:  mizer Desig (B)HP:  mizer Desig (B)C)  O5	e: signed per	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06	Fan Po  Maxi  Sy:	Device NA imum Syste Power (B)HI stem Fan Ty 07 wer Pressur	CALIFORNIA  /pe:  re Drop Adju  m Fan P:  re Drop Adju
Name: AC-3C ECONOMIZERS  O1 O2 O3 O4 O5 O6 Fan Power Pressure Drop Adjust Item Tag Power (GFM)    Total System Design Supply Airflow (CFM):    Amazimum Design Supply Airflow (CFM):    Total System Desi	CA Building Ener	A Systems OMPLIANCE  //S & AIR ECONOMIZERS AC-1C Econom  O2 Fan Function Supply m Design Supply Airflow (CFN AC-2C Econom  O2 Fan Function	izer: <sup>1</sup> 03 Qty 1 1 //): izer: <sup>1</sup> 03 Qty M:	Fixed Enthalpy  04  laximum Design Sul (CFM)  2400  2400  Fixed Enthalpy  04  laximum Design Sul (CFM)	Econc Cont pply Airflow  Total  Econc Cont	Report Pag Date Prepa  mizer De rols:	9.1.003 20200601  ee: ree: signed per ()	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP	Fan Po	stem Fan Ty 07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty 07 wer Pressur Device NA	CALIFORNIA  /pe:  re Drop Adju  re Drop Adju  re Drop Adju  re Drop Adju
Fan Name or Item Tag  Fan Function  Qty  Maximum Design Supply Airflow (CFM)  BHP  0.86  Maximum System Power (B)HP:  Total System Design Supply Airflow (CFM):  2000  Total System Design (B)HP:  0.86  Maximum System Fan Power (B)HP:  Registration Number:  Registration Date/Time:  Registration Date/Time:  Registration Number:  Registration Date/Time:  Registration Power (B)HP:  Registration Number:  Registration Date/Time:  Registration Power (B)HP:  Registration Number:  Report Version: 2019 1.003 Schema Version: rev 20200601  Report Generated  CALIFORNIA E  RETIFICATE OF COMPLIANCE  ROBERT FARS:  ROBERT FARS:  ROBERT FARS:  Report Page:	CA Building Ener	A Systems  OMPLIANCE  AS & AIR ECONOMIZERS  AC-1C Econom  02  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  02  Fan Function  Supply  Supply	izer: <sup>1</sup> 03 Qty 1 //): izer: <sup>1</sup> 03 Qty 1	Fixed Enthalpy  04  laximum Design Su (CFM)  2400  2400  Fixed Enthalpy  04  laximum Design Su (CFM)	Econo Cont  Poply Airflow  Total  Poply Airflow  Total	Report Pag Date Prepa  mizer Decrols:  O5  HP Unit  BHP  System Desig (B)HP:  MHP  System Desig (B)HP  System Desig (B)HP	e: signed per signed per 2 n	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.92  0.92	Fan Po  Maxi  Sy:	Device NA Stem Fan Ty 07 Wer Pressur Device NA Stem Fan Ty 07 Wer Pressur Device NA Stem Syste	CALIFORNIA  /pe:  re Drop Adju
SF Supply 1 2000 BHP 0.86 Maximum System Fan Power (B)HP:  Total System Design Supply Airflow (CFM): 2000 Total System Design 0.86 Maximum System Fan Power (B)HP:  Registration Number: Registration Date/Time: Registration Date/Time: Registration Date/Time: Registration Date/Time: Registration Date/Time: Registration Date/Time: Report Schema Version: 2019.1.003 Report Generated Schema Version: rev 20200601  REPORT OF COLIFORNIA MICHAEL System Security System Report Page: Date Prepared:  RECHACLE FOR COMPLIANCE TO COMPLIANCE TO COLIFORNIA BE CONOMIZERS  System Name: AC-1D Economizer: Fixed Enthalpy Economizer Controls: Designed per \$149.4(a) and (m) System Fan Type: Controls: Pan Function Qty Maximum Design Supply Airflow (CFM) HP Unit Design HP Device Design HP Device Design System Power (B)HP: Design HP Device Design System Power (B)HP: Device Design System Power (B)HP: Device (B)HP: D	CA Building Ener	A Systems  OMPLIANCE  AS & AIR ECONOMIZERS  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom	izer:1  03  Qty  1  1):  izer:1  03  Qty  M:  1  1):  izer:1	Fixed Enthalpy  04  laximum Design Su (CFM)  2400  2400  Fixed Enthalpy  04  laximum Design Su (CFM)  2400  2400  Fixed Enthalpy	Econo Cont  Poply Airflow  Total  Poply Airflow  Total  Econo Cont  Poply Airflow	Report Pag Date Prepa  mizer De rols:  O5  HP Unit  BHP System Desig (B)HP:  mizer De rols:  O5  HP Unit  BHP System Desig (B)HP:  mizer De rols:  O5	e: signed per signed per signed per	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)	Fan Po  Maxi  Sy:	stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)Hi stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)Hi stem Fan Ty	CALIFORNI/ //pe: re Drop Adju //pe: re Drop Adju //pe: re Drop Adju //pe: //pe
Registration Number: Registration Date/Time: Report Generated Schema Varision: rev 20200601  IATE OF CALIFORNIA AVAILABLE OF CALIFORNIA DATE OF COMPLIANCE  ROC-MC-FE COMPLIANCE  REPORT Page:  Repo	CA Building Ener	A Systems  OMPLIANCE  //S & AIR ECONOMIZERS  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  AC-3C Econom	izer:1 03 Qty 1 1 //): izer:1 03 Qty 1 //): izer:1 03	Fixed Enthalpy  04  laximum Design Sul (CFM)  2400  2400  Fixed Enthalpy  04  laximum Design Sul (CFM)  2400  2400  2400  Fixed Enthalpy  04  laximum Design Sul (CFM)	Econo Cont  Poply Airflow  Total  Poply Airflow  Total  Econo Cont  Cont	Report Pag Date Prepa  mizer rols:  O5 HP Unit BHP System Desig (B)HP: mizer De rols:  O5 HP Unit BHP System Desig (B)HP: mizer De rols:  O5	p.1.003 20200601  ee: ired: signed per () 2 n signed per ()	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06	Fan Po  Maxi I  Sys	stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)Hi stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)Hi stem Fan Ty  07	CALIFORNI/  /pe:  re Drop Adju
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  Report Version: 2019.1.003 Schema Version: rev 20200601  ACALIFORNIA  Mechanical Systems  RCC-MC-E  CALIFORNIA E  EXTIFICATE OF COMPLIANCE  roject Aldress:  Date Prepared:  A. FAN SYSTEMS & AIR ECONOMIZERS  System Name:  AC-1D  Economizer:  Fixed Enthalpy  Controls:  O1  O2  O3  O4  O5  O6  O7  Ian Name or Item Tag Fan Function  Qty Maximum Design Supply Airflow (CFM)  Maximum Design Supply Airflow (CFM)  BHP  1.34  Maximum System Fan Power (B)HP:  Total System Design Supply Airflow (CFM):  Maximum System Fan Power (B)HP:	CA Building Ener  STATE OF CALIFORNI  Mechanical  NRCC-MCF-E CERTIFICATE OF C  Project Name:  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  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:  O1  Fan Name or Item Tag  SF  Total Syste  System Name:  O1  Fan Name or Item Tag	A Systems  OMPLIANCE  //S & AIR ECONOMIZERS  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function	izer:1  03  Qty  1  //):  izer:1  03  Qty  M:  //):  izer:1  03  Qty  M:  //):  izer:1  O3  Qty  M:	Fixed Enthalpy  04 laximum Design Sur (CFM)  2400  2400  Fixed Enthalpy  04 laximum Design Sur (CFM)  2400  2400  Fixed Enthalpy  04 laximum Design Sur (CFM)	Econo Cont  Poply Airflow  Total  Econo Cont  Poply Airflow  Total  Poply Airflow	Report Pag Date Prepa  mizer De rols:  O5  HP Unit  BHP  System Desig (B)HP: mizer De rols:  O5  HP Unit  BHP  System Desig (B)HP: mizer De rols:  O5  HP Unit  BHP  System Desig (B)HP: mizer De rols:  BHP  System Desig (B)HP: mizer De rols:  BHP	e: signed per signed per signed per 2 n signed per 2 n	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP	Fan Po  Maxi I Sy: Fan Po  Maxi I Fan Po	stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)Hi stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)Hi stem Fan Ty  07 wer Pressur  Device  NA	CALIFORNIA  //pe:  re Drop Adju  //pe:  re Drop Adju  //pe:  re Drop Adju  //pe:  //pe
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Report Page:     Date Prepared:	CA Building Ener	A Systems  OMPLIANCE  //S & AIR ECONOMIZERS  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function	izer:1  03  Qty  1  1):  izer:1  03  Qty  1  1):  izer:1  03  Qty  1  A):  izer:1  A):	Fixed Enthalpy  04  laximum Design Su (CFM)  2400  2400  Fixed Enthalpy  04  laximum Design Su (CFM)  2400  2400  2400  2400  Fixed Enthalpy  04  laximum Design Su (CFM)  2000  2000	Econo Cont  pply Airflow  Total  Econo Cont  pply Airflow  Total  Regis  Repc  Repc	Report Pag Date Prepa  mizer De rols:  O5  HP Unit  BHP System Desig (B)HP: mizer De rols:  O5  HP Unit  BHP System Desig (B)HP: mizer De rols:  The Unit De rols:  T	p.1.003 p.20200601 pe:	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.86  0.86	Fan Po  Maxi I Sy: Fan Po  Maxi I Max	stem Fan Ty  07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur Device NA	CALIFORNIA  //pe:  re Drop Adju  //pe:  re Drop Adju  //pe:  re Drop Adju  //pe:  //pe
AC-1D Economizer: Fixed Enthalpy Controls: Designed per \$140.4(e) and (m) System Fan Type: On Total System Design Supply Airflow (B)HP:  AC-1D Economizer: Fixed Enthalpy Controls: Designed per \$140.4(e) and (m) System Fan Type: On Total System Design Supply Airflow (B)HP: 1.34 Maximum System Fan	CA Building Ener	A Systems  OMPLIANCE  //S & AIR ECONOMIZERS  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function	izer:1  03  Qty  1  1):  izer:1  03  Qty  1  1):  izer:1  03  Qty  1  A):  izer:1  A):	Fixed Enthalpy  04  laximum Design Su (CFM)  2400  2400  Fixed Enthalpy  04  laximum Design Su (CFM)  2400  2400  2400  2400  Fixed Enthalpy  04  laximum Design Su (CFM)  2000  2000	Econo Cont  pply Airflow  Total  Econo Cont  pply Airflow  Total  Regis  Repc  Repc	Report Pag Date Prepa  mizer De rols:  O5  HP Unit  BHP System Desig (B)HP: mizer De rols:  O5  HP Unit  BHP System Desig (B)HP: mizer De rols:  The Unit De rols:  T	p.1.003 p.20200601 pe:	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.86  0.86	Fan Po  Maxi I Sy: Fan Po  Maxi I Max	stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)Hi stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)Hi stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)Hi Re	CALIFORNI/  //pe:  re Drop Adju  re Drop Adj
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System AC 3D Formation 1 Sixed Enthalps: Economizer Designed per §140.4(e) and System For Type:	CA Building Ener  TATE OF CALIFORNI  Wechanical  IRCC-MCI-E  CERTIFICATE OF CO  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  Total Syste  Corporation  CA Building Ener  TATE OF CALIFORNI  Wechanical  IRCC-MCI-E  CERTIFICATE OF CO  Project Name:  O1  Fan Name or Item Tag  SF  Total Syste  Registration Num  CA Building Ener  TATE OF CALIFORNI  Wechanical  IRCC-MCI-E  CERTIFICATE OF CO  Project Name:  O1  Fan Name or Item Tag  SF  Total Syste  Registration Num  CA Building Ener  TATE OF CALIFORNI  Wechanical  IRCC-MCI-E  CERTIFICATE OF CO  Project Name:  O1  Fan Name or Item Tag  System  Syst	A Systems  OMPLIANCE  //S & AIR ECONOMIZERS  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  M Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  A Systems  OMPLIANCE  //S & AIR ECONOMIZERS  AC-1D Econom  O2  Fan Function  Supply	izer:1 03 03 04y Miles 1 04	Fixed Enthalpy  O4 laximum Design Sur (CFM)  2400  2400  Fixed Enthalpy  O4 laximum Design Sur (CFM)  2400  2400  Compliance  Fixed Enthalpy  O4 laximum Design Sur (CFM)  COFM)  COMPLIANCE  Fixed Enthalpy  O4 laximum Design Sur (CFM)  COMPLIANCE  Fixed Enthalpy  O4 laximum Design Sur (CFM)  COMPLIANCE  Fixed Enthalpy  O4 laximum Design Sur (CFM)  COMPLIANCE	Repconc Sche    Econc Cont	Report Pag Date Prepa  Mizer De rols: De  MHP Unit  BHP  System Desig (B)HP:  Mizer De rols: De  The Unit  BHP  System Desig (B)HP:  Mizer De rols: De  The Unit  BHP  System Desig (B)HP:  Mizer De rols: De  The Unit  BHP  System Desig (B)HP:  Mizer De rols: De  The Unit  BHP  System Desig (B)HP:  Mizer De The Unit  BHP  System Desig (B)HP:  Mizer De The Unit  The	p.1.003 20200601  ee: red: signed per 2 n	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.86  0.86  0.86  r §140.4(e) and (m)  06  Design HP  1.34	Fan Po  Maxi  Fan Po  Maxi  Sy:	stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI  Re imum Syste Power (B)HI  Re imum Syste Power (B)HI  Re imum Syste Power (B)HI	CALIFORNIA  //pe:  re Drop Adju
Name:         AC-2D         Economizer: 1         Fixed Enthalpy         Controls: (m)         (m)         System Fan Type: (m)           01         02         03         04         05         06         07	CA Building Ener  TATE OF CALIFORNI  VIECHANICAL  RCC-MCIE  TERTIFICATE OF CO  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  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  Registration Num  CA Building Ener  TATE OF CALIFORNI  VIECHANICAL  Fan Name or Item Tag  SF  Total Syste  Registration Num  CA Building Ener  TATE OF CALIFORNI  VIECHANICAL  Fan Name or Item Tag  SF  Total Syste  Total Syste  System  Name:  O1  Fan Name or Item Tag  SF  Total Syste  Total Syste  Total Syste	A Systems  OMPLIANCE  //S & AIR ECONOMIZERS  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN	izer:1   03   M: 1   1   1   1   1   1   1   1   1   1	Fixed Enthalpy  04 laximum Design Sul (CFM)  2400  2400  Fixed Enthalpy  2400  2400  2400  Fixed Enthalpy  04 laximum Design Sul (CFM)  2000  2000  Compliance  Fixed Enthalpy  04 laximum Design Sul (CFM)  4000  4000  4000	Repconc Sche    Econc Cont	Report Pag Date Prepa  Mizer De Indizer De I	p.1.003 p.20200601 pe: pe: pred: pe: pred: pe: pred: pe: pred: pe: pe: pe: pe: pe: pe: pe: pe: pe: pe	r §140.4(e) and (m) 06  Design HP 0.92 0.92 r §140.4(e) and (m) 06  Design HP 0.92 0.92 r §140.4(e) and (m) 06  Design HP 0.86 0.86  0.86	Fan Po  Maxi  Syn  Fan Po  Maxi  Syn  Fan Po  Maxi  I  Syn  Fan Po  Maxi  I  Syn  Fan Po  Maxi  I  I  I  I  I  I  I  I  I  I  I  I  I	stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI	CALIFORNIA  //pe:  //pe
I Fan Flinction I OTV I - ' ' I HUllnif' I Degin HU I Dec	CA Building Ener  TATE OF CALIFORNI  VIECHANICAL  RECEMBRICATE OF CO  Project 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  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  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  Name:  O1  Fan Name or  Item Tag  SF  Total Syste  Name:  O1  Fan Name or  Item Tag  SF  Total Syste  Name:  O1  Fan Name or  Item Tag  SF  Total Syste  Name:  O1  Fan Name or  Item Tag  SF  Total Syste  Name:  O1  Fan Name or  Item Tag  SF  Total Syste  Name:  O1  Fan Name or  Item Tag  SF  Total Syste  Name:  O1  Fan Name or	A Systems  OMPLIANCE  AC-1C Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2 Fan Function  Supply  m Design Supply Airflow (CFN  AC-2D Econom  O2 Fan Function  O2 Fan Function  O2 Fan Function  Supply  M Design Supply Airflow (CFN  AC-2D Econom  O2	izer:1 03 04y M:  izer:1 04y M:  izer:1 04y M:  izer:1 05y M:  ize	Fixed Enthalpy  04 laximum Design Sur (CFM)  2400  2400  Fixed Enthalpy  2400  2400  Fixed Enthalpy  04 laximum Design Sur (CFM)  2000  2000  Compliance  Fixed Enthalpy  404 laximum Design Sur (CFM)  4000  4000  Fixed Enthalpy  04 laximum Design Sur (CFM)  2000  2000	Repci Sche    Econo Cont	Report Pag   Date Prepared	e: signed per signed per 2 n signed per 2 n signed per 2 n signed per 2 n signed per 6 2 n signed per 6 2 n signed per 7 2 n signed per 8 1 2 n signed per 9 1 2 n signed per 9 1 2 1 3 3 4 4 5 5 6 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  1.34  1.34  1.34  r §140.4(e) and (m)  06	Fan Po  Maxi I Sy:	stem Fan Ty  07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur Device NA imum Syste Power (B)HI stem Fan Ty  07	CALIFORNIA  //pe:  //pe
Fan Function   Qty   Waxmun Design Supply Almow   HP Unit <sup>2</sup>   Design HP   Device   Device   Design HP   Device   Design HP   Device   Design HP   Device   Device   Design HP   Device   Device	CA Building Eneronal California Alechanical RCC-MCH-E ERTIFICATE OF Conject 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 Name or Item Tag  Fan Name or Item Tag  Total System Name:  O1  Fan Name or Item Tag  Fan Name or Item Tag	A Systems  OMPLIANCE  Fan Function  Supply  m Design Supply Airflow (CFN  AC-2C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-3C Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function  Supply  m Design Supply Airflow (CFN  AC-1D Econom  O2  Fan Function	izer:1   03   M:  Oty   M:  izer:1   03    Oty   M:  izer:1   Oty   Oty   M:  izer:1   Oty   Oty   Oty   Oty   Oty   Oty    izer:1   Oty   Oty   Oty   Oty   Oty   Oty    izer:1   Oty   Oty   Oty   Oty   Oty   Oty    izer:1   Oty   Oty   Oty   Oty   Oty   Oty   Oty    izer:1   Oty    izer:1   Oty	Fixed Enthalpy  04 laximum Design Sur (CFM)  2400  2400  Fixed Enthalpy  04 laximum Design Sur (CFM)  2400  2400  2400  Fixed Enthalpy  04 laximum Design Sur (CFM)  2000  2000  Compliance  Fixed Enthalpy  04 laximum Design Sur (CFM)  4000  Fixed Enthalpy  04 laximum Design Sur (CFM)  4000  Fixed Enthalpy  04 laximum Design Sur (CFM)  4000  Fixed Enthalpy  04 laximum Design Sur (CFM)	Repci Sche    Econo Cont	Report Page   Deterois:   Dete	e: signed per signed per 2 n signed per 2 n signed per 2 n signed per 2 n signed per 6 2 n signed per 6 2 n signed per 7 2 n signed per 8 1 2 n signed per 9 1 2 n signed per 9 1 2 1 3 3 4 4 5 5 6 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  0.92  0.92  r §140.4(e) and (m)  06  Design HP  1.34  1.34  r §140.4(e) and (m)  06  Design HP	Fan Po  Maxi I Sy:	stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device  NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device Power (B)HI stem Fan Ty  07 wer Pressur  Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device NA imum Syste Power (B)HI stem Fan Ty  07 wer Pressur  Device	CALIFORNIA  //pe:  //pe

Fan Function

Supply

Total System Design Supply Airflow (CFM):

AC-3D **Economizer:**<sup>1</sup>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

System Name:

Fan Name or

Item Tag

Registration Number:

Project Name:	DMPLIANCE						Report	Page:						NRCC- (Page 3	
Project Address:							Date Pr	epared:						12/2	
F. HVAC SYSTEM	/ SUMMARY (I	ORY & WE	T SYSTEI	VIS)											
This table is used §140.4(b) and §1					quipment witi	n mandatory	requireme	nts found in	<u>§110.1</u> and <u>§1</u>	<u>10.2(a)</u> and	d prescriptiv	ve requirem	ents found i	n <u>§14</u> 0	
Dry System Equip	pment Sizing (inc					oumps, VRF,	furnaces a								
01	02				03		04	05		07 ent Sizing pe	08 er Mechanio	09 cal Schedul	10 e (kBtu/h)		
									Heating Outpu		\$140.4 (a&l	b) Output <sup>2,3</sup>	Load Cale	culatio	
Name or Item	Equipment Cat Tables 1:	· , .	Equipm	nent Type	e per Tables 11 20	.0.2 / Title	Smallest Si Available		neating Outpu	Supp.			Total	To	
Tag	lables 1.	10.2			20		§140.4(a)	Per De (kBtu	-	Heating Output	Sensible Per Design	Rated (kBtu/h)	Heating Load	Sen Co	
								(KBtu)	(KBtd/II)	(kBtu/h)	(kBtu/h)	(KStu/II)	(kBtu/h)	(kB	
AC-1A	Unitary AC/ Co	ondensers	Д	C, air-co	oled pkg (3 ph	ase)	NA: Load	1 200	200	0	184.58	170.54	80.14	17	
AC-2A	Unitary AC/ Co	ondensers	A	C, air-co	oled pkg (3 ph	ase)	NA: Load	1 200	200	0	154.67	142.17	85.8	16	
AC-1B	Unitary AC/ Co	ondensers	A	.C. air-co	oled pkg (3 ph	ase)	NA: Load	120	) 120	0	103.65	94.06	76.08	12	
AC-2B	Unitary AC/ Co				oled pkg (3 ph	· +	Controls NA: Load		96	0	80.18	77.86	29.35	75	
			+				Controls NA: Load					<del>                                     </del>		+	
AC-3B	Unitary AC/ Co	ondensers	A	C, air-co	oled pkg (3 ph	ase)	Controls NA: Load	96	96	0	83.21	77.86	43.57	76	
AC-4B	Unitary AC/ Co	ondensers	A	C, air-co	oled pkg (3 ph	ase)	Controls	96	96	0	83.92	77.86	48.36	8.	
AC-5B	Unitary AC/ Co	ondensers	Д	C, air-co	oled pkg (3 ph	ase)	NA: Load Controls	49	49	0	51.43	45.83	40.56	60	
AC-6B	Unitary AC/ Co	ondensers	Α	C, air-co	oled pkg (3 ph	ase)	NA: Load Controls	1 200	200	0	154.96	142.17	96.55	17.	
AC-7B	Unitary AC/ Co	ondensers	Д	C, air-co	oled pkg (3 ph	ase)	NA: Load	200	200	0	154.96	142.17	96.55	17.	
							Controls								
Registration Numb	per:					Regi	stration Date	e/Time:				Registr	ation Provide	r: Ener	
CA Building Energy	y Efficiency Standa	ards - 2019 N	lonresider	ntial Comp	oliance		ort Version: 2 ma Version:	2019.1.003 rev 2020060	1		Re	eport Genera	ited: 2020-12	-23 15:	
Mechanical S															
NRCC-MCH-E  CERTIFICATE OF CO	OMPLIANCE											CALIFORNI	A ENERGY C	OMM NRCC-	
Project Name: Project Address:							Report Date Pr						(	(Page 7	
Troject Address.								cparce.						12/2	
F. HVAC SYSTEM					14: 6 1:::	(274.6)	10.1								
Dry System Equip 01	ment Efficiency	O2	n Packag	e Iermir	03	04	and Packa	05	06		07	08		09	
							Heating M	ode Iinimum	1			Cooling M			
Name or Item Tag	5	Size Catego (Btu/h)	ry		Rating	Γ£:-:	E	fficiency	Danies Efficien	Fff:-:-		Efficien	су	FEE:	
lag		(Btu/II)			Condition ( °F)	Efficiency (	Tab	quired per les 110.2 /	Design Efficie	TCY ETTICIE	ncy Unit	Required Tables 11	0.2 /	gn Effi	
AC-4C		<65,000				AFUE		0.80	0.8	S	EER	Title 2 13.0	0	15	
AC-5C AC-6C		<65,000 <65,000				AFUE AFUE		0.80	0.8	_	EER EER	13.0 13.0		15 15	
AC-6C AC-7C		<65,000				AFUE		0.80	0.8	_	EER	13.0		15	
AC-8C AC-9C	<del>                                     </del>	<65,000 <65,000				AFUE AFUE		0.80	0.8		EER EER	13.0		15 15	
AC-10C	>=65,	000 and <1	35,000			AFUE		0.80	0.8		EER EER	11 12.7		12.6	
AC-11C	>=135	,000 and <	240 000	0.000		AFUE		0.80	0.8		EER	10.8		15 12.1	
						AFUE		0.80		_	EER EER	12.2 10.8		15 12.1	
AC-12C	>=135,	,000 and <	240,000			AFUE			0.8	_	EER EER	12.2 11		15 12.4	
AC-1D	>=65,	000 and <1	35,000		AFUE			0.80	0.8	l	EER	12.7		15.2	
AC-2D	>=65,	000 and <1	35,000	5,000	5,000		AFUE		0.80	0.8		EER EER	11 12.7		12.4 15.2
AC-3D	>=135	,000 and <	240,000			AFUE		0.80	0.8		EER EER	10.8 12.2		11.8 14	
AC-4D	>=135	,000 and <	240,000			AFUE		0.80	0.8		EER EER	10.8 12.2		11.8 14	
AC-1E	>=65,	000 and <1	35,000			AFUE		0.80	0.8		EER	11		12.5	
	<u> </u>										EER	12.7		14.7	
Registration Numb	per:					Regi	stration Date	e/Time:				Registr	ation Provide	r: Ener	
CA Building Energy	y Efficiency Standa	ards - 2019 N	lonresider	ntial Comp	oliance		ort Version: 2 ma Version:	2019.1.003 rev 2020060	1		Re	eport Genera	ited: 2020-12	-23 15:	
STATE OF CALIFORNIA															
Mechanical S												CALIEODAL	A ENERGY C		
CERTIFICATE OF CO	MPLIANCE											CALIFORNI		NRCC-	
Project Name: Project Address:							Report Date Pr						(F	Page 11 12/23	
H. FAN SYSTEMS System						Foon	omizer	Designed	er <u>§140.4(e)</u> an	d					
Name:	AC-5B	Econon		Fix	ked Enthalpy		trols:		(m)	Sy	tem Fan Ty	/pe:	Constant		
O1	02		03	N4- ·	04 Dosign Su	nnly Atacl	0!		06	Fan Po	07 wer Pressui	re Drop Adj	08 ustment - Ta		
Fan Name or	Fan Function	on	Qty	iviaXIM	num Design Su (CFM)	Phià HILLIOM	HP U	nit <sup>2</sup>	Design HP		Device		Design Airflo Device (		
Item Tag	Supply		1		2000	,	BH		0.86		NA		N.A	\	
		Airflow (CF	M):		2000	Tota	l System De (B)HP:	esign	0.86		mum Syste Power (B)HI		1.8	8	
Item Tag SF	n Design Supply A	, 2.	B Economizer:1		Fixed Enthalpy		Economizer Designed per §140.4(e) and System		er <u>§140.4(e)</u> an (m)	4	tem Fan Ty		Constant	Volum	
SF Total System  System	n Design Supply A		nizer:1	Fix	red Enthalpy	<b>~</b>	trole		VIIII						
SF Total System			nizer: <sup>1</sup>	Fix	ked Enthalpy 04	Con	trois: 0!	5	06		07		08		
SF Total System System Name: 01 Fan Name or	AC-6B	Econon	03		04 num Design Su				06	Fan Po	wer Pressur		ustment - Ta	able 14	
SF Total System Name: 01 Fan Name or Item Tag	AC-6B  02  Fan Function	Econon	03 Qty		04 num Design Su (CFM)		HP U	nit <sup>2</sup>	06 Design HP	Fan Po				able 14	
SF Total System System Name: 01 Fan Name or Item Tag SF	AC-6B  02  Fan Function  Supply	Econon	03 Qty		04 num Design Su (CFM) 6000	pply Airflow	HP U	nit <sup>2</sup>	06  Design HP  2.98		wer Pressur Device		ustment - Ta Design Airflo Device (	able 14 ow thro (CFM)	
SF Total System System Name: 01 Fan Name or Item Tag SF Total System	AC-6B  02  Fan Function	Econon	03 Qty		04 num Design Su (CFM)	pply Airflow Tota	HP U BH System De	nit <sup>2</sup> IP esign	06  Design HP  2.98  2.98	Maxi	wer Pressur	m Fan	ustment - Ta Design Airflo	able 14 ow thro (CFM)	
SF Total System System Name: 01 Fan Name or Item Tag SF	AC-6B  02  Fan Function  Supply	Econon	03 Qty 1 M):	Maxim	04 num Design Su (CFM) 6000	pply Airflow  Tota	HP U BH	nit <sup>2</sup> IP esign	06  Design HP  2.98	Maxi	Device  NA  mum Syste	m Fan P:	ustment - Ta Design Airflo Device (	able 14 ow thro (CFM)	
System Name:  01 Fan Name or Item Tag  SF  Total System  System	AC-6B  02  Fan Function  Supply  n Design Supply A	Econon On Airflow (CF	03 Qty 1 M):	Maxim	04 num Design Su (CFM) 6000	pply Airflow  Tota	HP U BH I System De (B)HP:	IP esign Designed p	06  Design HP  2.98  2.98  er §140.4(e) an	Maxi F	Device  NA mum Syste Power (B)HI stem Fan Ty  07	m Fan P: //pe:	ustment - Ta Design Airflo Device N/ 5.6 Constant	able 14 ow thro (CFM) 4 Volum	
System Name:  O1 Fan Name or Item Tag  SF  Total System  System O1 Fan Name or Item Tag  SF  Total System Name:  O1 Fan Name or Item Name:	AC-6B  02  Fan Function  Supply  n Design Supply A  AC-7B	Econon Airflow (CF	Qty  1 M):	Maxim Fix	04 num Design Su (CFM) 6000 6000 ced Enthalpy 04 num Design Su	pply Airflow  Tota  Econe Con	HP U BH I System De (B)HP: Domizer trols:	Init <sup>2</sup> IP Pesign Designed p	06  Design HP  2.98  2.98  er §140.4(e) an (m)	Maxi F	Device  NA  mum Syste Power (B)HI  stem Fan Ty  07  wer Pressur	m Fan P: /pe:	ustment - Ta Design Airflo Device ( N/ 5.6 Constant 08 ustment - Ta Design Airflo	w through the second se	
System Name:  O1 Fan Name or Item Tag  SF  Total System  System Ame:  O1  Total System  O1  Total System  O1  Total System  O1  Total System  O1	AC-6B  02  Fan Function  Supply  n Design Supply A  AC-7B  02	Econon Airflow (CF	03  Qty  1  M):  nizer:1  03	Maxim Fix	04 num Design Su (CFM) 6000 6000 ced Enthalpy 04	pply Airflow  Tota  Econe Con	BH System De (B)HP:	Pesign Designed p	06  Design HP  2.98  2.98  er §140.4(e) an (m)  06	Maxi F	Device  NA mum Syste Power (B)HI stem Fan Ty  07	m Fan P: /pe:	ustment - Ta Design Airflo Device ( N/ 5.6 Constant 08 ustment - Ta	able 14 ow thro (CFM)  4  Volume able 14 ow thro (CFM)	

System Fan Type:

Device

Power (B)HP:

Power Pressure Drop Adjustment - Table 140.4-B

Constant Volume

Design Airflow through

Device (CFM)

6.58

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HP Unit<sup>2</sup>

BHP

(B)HP:

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Controls:

Fixed Enthalpy

7000

Maximum Design Supply Airflow

(CFM)

Design HP

4.37

ranran	Item Tag	Device (CFM)	Device	Design	TII OIIIC		(CFM)	Qty			Item Tag
Supp	SF	NA	NA	2.98	ВНР		6000	1		Supply	SF
m Design Supp	Total Syster	5.64	/laximum System Fan Power (B)HP:	2.98		Total Syste (B)F	6000	M):	Airflow (CFI	em Design Supply A	Total Syste
nber:	Registration Num	tration Provider: Energysoft	Regis		n Date/Time:	Registratio				mber:	Registration Nur
	CA Building Energ	rated: 2020-12-23 15:53:25	_		sion: 2019.1.00 rsion: rev 2020	Report Ver	ntial Compliance	lonresiden	rds - 2019 N	rgy Efficiency Standa	
	STATE OF CALIFORNIA  Mechanical  NRCC-MCH-E	NIA ENERGY COMMISSION	CALIFORI								ate of caliform <b>1echanica</b> RCC-MCH-E
OMPLIANCE	CERTIFICATE OF C	NRCC-MCH-E								COMPLIANCE	ERTIFICATE OF (
	Project Name:	(Page 15 of 57)			port Page:						roject Name:
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/IS & AIR ECC	H. FAN SYSTEM								MIZERS	VIS & AIR ECONO	I. FAN SYSTEI
AC-7C	System Name:	Constant Volume	System Fan Type:	d per <u>§140.4(e)</u> and (m)	Designed per <u>§140.4(e</u> s: (m)		Fixed Enthalpy	nizer:1	Econom	AC-10C	System Name:
02	01	08	07	06	05		04	03		02	01
Fan Fun	Fan Name or Item Tag	djustment - Table 140.4-B  Design Airflow through  Device (CFM)	n Power Pressure Drop A Device	Design HP	HP Unit <sup>2</sup>	Airflow	Maximum Design Supply (CFM)	Qty	on	Fan Functio	an Name or Item Tag
Supp	SF	NA	NA	1.18	ВНР		3000	1		Supply	SF
m Design Supp	Total Syster	2.82	/laximum System Fan Power (B)HP:	1.18	stem Design B)HP:		3000	Supply Airflow (CFM):		em Design Supply A	Total Syste
AC-8C	System Name:	Constant Volume	System Fan Type:	d per <u>§140.4(e)</u> and (m)	Designe	Economize Controls:	Fixed Enthalpy	nizer:1	Econom	AC-11C	System Name:
02	01	08	07	06	05		04	03		02	01
Fan Fun	Fan Name or Item Tag	djustment - Table 140.4-B  Design Airflow through  Device (CFM)	n Power Pressure Drop A Device	Design HP	HP Unit <sup>2</sup>	Airflow	Maximum Design Supply (CFM)	Qty	n	Fan Functio	an Name or Item Tag
Supp	SF	NA NA	NA	2.43	ВНР		4800	1		Supply	SF
m Design Supp		4.51	/laximum System Fan Power (B)HP:	2.43	m Design	Total Syste (B)F	4800		Airflow (CFI	em Design Supply A	
AC-9C	System Name:	Constant Volume	System Fan Type:	d per <u>§140.4(e)</u> and (m)	Designe	Economize Controls:	Fixed Enthalpy	nizer:1	Econom	AC-12C	System Name:
02	01	08	07	06	05		04	03		02	01
Fan Fun	Fan Name or Item Tag	djustment - Table 140.4-B Design Airflow through Device (CFM)	n Power Pressure Drop A Device	Design HP	HP Unit <sup>2</sup>	Airflow	Maximum Design Supply (CFM)	Qty	n	Fan Functio	an Name or Item Tag
Supp	SF	NA	NA	2.43	ВНР		4800	1		Supply	SF
m Design Supp	Total Syster	4.51	/laximum System Fan Power (B)HP:	2.43		Total Syste	4800	M):	Airflow (CFI	em Design Supply A	Total Syste

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Fan	2.82	Total Sys	tem Design Supply A	irflow (CF	M):	2000
e:	Constant Volume	System Name:	AC-8C	Econon	nizer:1	Fixed Entha
	08	01	02		03	
Drop /	Adjustment - Table 140.4-B  Design Airflow through  Device (CFM)	Fan Name or Item Tag	Fan Functio	n	Qty	Maximum Desi (C
	NA	SF	Supply		1	21
Fan	4.51	Total Sys	tem Design Supply A	irflow (CF	M):	2000
e:	Constant Volume	System Name:	AC-9C	Econor	nizer:1	Fixed Entha
	08	01	02		03	
Drop /	Adjustment - Table 140.4-B  Design Airflow through  Device (CFM)	Fan Name or Item Tag	Fan Functio	n	Qty	Maximum Desi IC
	NA	SF	Supply		1	21
Fan	4.51	Total Sys	tem Design Supply A	irflow (CF	M):	2000
_	istration Provider: Energysoft nerated: 2020-12-23 15:53:25	Registration N CA Building En	umber: ergy Efficiency Standa	rds - 2019 N	Nonresidei	ntial Compliance

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<b>Mechanica</b> IRCC-MCH-E	ы эуз	stems												CALIFORNIA E	NERGY COMMISSION
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Project Name:								Repo	ort Page	:					(Page 2 of 57)
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C. COMPLIAN	ICE RE	SULTS													
Table C will ind	licate i	f the project o	lata ini	put into the co	mplian	ce document i	s comp	liant with med	chanica	l requirements	. This	able is not edi	itable b	y the user. If this t	able says "DOES
NOT COMPLY"	or "CC	MPLIES with	Except.	ional Conditio	ns" refe	er to Table D., o	or the t	able indicatea	l as not	compliant for	guidar	ice.		,	,
01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(I)	AND	Cooling Towers §110.2(e)2	Compliance Results
See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	1
No /	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		DOES NOT COMPLY
				Mandatory	Measu	ires Complian	ce (See	Table Q for D	etails)				СОМР	LIES	•
D. EXCEPTION	NAL C	ONDITIONS													
This table is au	to-fille	ed with unedit	able co	omments beca	use of	selections mad	de or de	ata entered in	tables	throughout the	form.				
. ADDITION	AL REI	MARKS													
	ides re	marks made l	by the	permit applica	nt to th	ne Authority H	aving J	urisdiction.							

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STATE OF CALIFORNIA		
Mechanical Systems		
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)		
Dry System Equipment Efficiency (other than Package Terminal Air Condition	oners (PTAC) and Package Terminal Heat Pumps (PT	HP))

01	02	03	04	05	06	07	08	09
			Heati	ng Mode			Cooling Mode	•
Name or Item Tag	Size Category (Btu/h)	Rating Condition ( °F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
AC-1A	>=135,000 and <240,000		AFUE	0.80	0.8	EER IEER	10.8 12.2	11.8 14
AC-2A	>=135,000 and <240,000		AFUE	0.80	0.8	EER IEER	10.8 12.2	12 15
AC-1B	>=65,000 and <135,000		AFUE	0.80	0.8	EER IEER	11 12.7	12.4 15.2
AC-2B	>=65,000 and <135,000		AFUE	0.80	0.8	EER IEER	11 12.7	12.5 14.7
AC-3B	>=65,000 and <135,000		AFUE	0.80	0.8	EER IEER	11 12.7	12.5 14.7
AC-4B	>=65,000 and <135,000		AFUE	0.80	0.8	EER IEER	11 12.7	12.5 14.7
AC-5B	<65,000		AFUE	0.80	0.8	SEER	13.0	15
AC-6B	>=135,000 and <240,000		AFUE	0.80	0.8	EER IEER	10.8 12.2	12 15
AC-7B	>=135,000 and <240,000		AFUE	0.80	0.8	EER IEER	10.8 12.2	12 15
AC-1C	>=65,000 and <135,000		AFUE	0.80	0.8	EER IEER	11 12.7	13.1 16
AC-2C	>=65,000 and <135,000		AFUE	0.80	0.8	EER IEER	11 12.7	13.1 16
AC-3C	<65,000		AFUE	0.80	0.8	SEER	13.0	15

STATE OF CALIFORM  Mechanica  NRCC-MCH-E									CALIFOF	RNIA ENERGY COMM SSION
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System Name:	MS & AIR ECONO AC-2B	Econon		Fixed Enthalpy	Econon Contro	ols:		d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04		0	)5	06	07	08
Fan Nama ar				Mayimum Davian Cumply	Virflance				Fan Power Pressure Drop	Adjustment - Table 140.4-B
Fan Name or Item Tag	Fan Functio	on	Qty	Maximum Design Supply (CFM)	AITHOW	HP U	Jnit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	3400		BH	HP	1.35	NA	NA

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System Name:	AC-2B	Econon	nizer:1	Fixed Enthalpy	Econon Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	n	Qty	(CFM)	AIITIOW	НР	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	3400		E	BHP	1.35	NA	NA
Total Syst	em Design Supply A	irflow (CF	M):	3400	Total S	ystem [ (B)HP:	Design	1.35	Maximum System Fan Power (B)HP:	3.2
System Name:	AC-3B	Econon	nizer:1	Fixed Enthalpy	Econon Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	n	Qty	(CFM)	AIITIOW	HP	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	3400		Е	3HP	1.35	NA	NA
Total Syst	em Design Supply A	irflow (CF	M):	3400	Total S	ystem [ (B)HP:	Design	1.35	Maximum System Fan Power (B)HP:	3.2
System Name:	AC-4B	Econon	nizer:1	Fixed Enthalpy	Econon Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	n	Qty	(CFM)	AIITIOW	HP	Unit <sup>2</sup>	Design HP	Device	Desigr Airflow through Device (CFM)
SF	Supply		1	3400		Е	ЗНР	1.35	NA	NA
Total Syst	em Design Supply A	irflow (CF	M):	3400		ystem [ (B)HP:	Design	1.35	Maximum System Fan Power (B)HP:	3.2

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Project Name:	OWI LIAIVEE					Reno	rt Page:			(Page 14 of 57
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•						- June	- repureu.			12, 23, 202
System Name:	AC-7C	Econor	mizer:1	Fixed Enthalpy	Econon Contr		Designe	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
					d				Fan Power Pressure Drop A	Adjustment - Table 140.4-I
Fan Name or Item Tag	Fan Functio	on	Qty	Maximum Design Supply (CFM)	Airtiow	НР	Unit <sup>2</sup>	Design HP	Device	Desigr Airflow through Device (CFM)
SF	Supply		1	2000		E	ЗНР	0.86	NA	NA
Total Syste	m Design Supply A	Airflow (CF	M):	2000	Total S	System (B)HP:	•	0.86	Maximum System Fan Power (B)HP:	1.88
System Name:	AC-8C	Econor	mizer:1	Fixed Enthalpy	Econon Contre		Designe	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Nama an				Marrian Davies Comple	Viu£la				Fan Power Pressure Drop A	Adjustment - Table 140.4-
Fan Name or Item Tag	Fan Functio	on	Qty	Maximum Design Supply (CFM)	AITHOW	НР	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	2000		E	ВНР	0.86	NA	NA
Total Syste	m Design Supply A	Airflow (CF	M):	2000	Total S	ystem (B)HP:	_	0.86	Maximum System Fan Power (B)HP:	1.88
System Name:	AC-9C	Econor	mizer:1	Fixed Enthalpy	Econon Contre		Designe	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
an Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-
Item Tag	Fan Functio	on	Qty	(CFM)	AIIIIOW	НР	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	2000		E	ЗНР	0.86	NA	NA
Total Syste	m Design Supply A	Airflow (CF	M):	2000	Total S	ystem (B)HP:	_	0.86	Maximum System Fan Power (B)HP:	1.88

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Offic	` '	Retail (M	·		Non-refrigerated Warel	10036 (3)		
☐ Hote	I/ Motel Guest Rooms (R-1)	School (E			☐ Healthcare Facility (I)			
☐ High	-Rise Residential (R-2/R-3)	Relocatal	ble Class	Bldg (E)	Other (write in)			See Table J
B. PROJ	ECT SCOPE							
	e Includes mechanical systems or compone or <u>§141.0(b)2</u> for alterations.	ents that are	within ti	he scope of the permit	application and are demonst	rating con	npliance using the	e prescriptive path outlined in
	01			02				03
	Air System(s)			Wet System Co	mponents		Dry Syste	em Components
$\boxtimes$	Heating Air System			Water Economizer		⊠	Air Economize	r
$\boxtimes$	Cooling Air System			Pumps			Electric Resista	ance Heat
	Mechanical Controls			System Piping		⊠	Fan Systems	
$\boxtimes$	Mechanical Controls (existing to remai or new)	in, altered		Cooling Towers		×	Ductwork (exis	sting to remain, altered or ne
				Chillers		⊠	Ventilation	
							Zonal Systems	

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

STATE OF CALIFORNIA

Project Name: Project Address:

STATE OF CALIFORNIA

NRCC-MCH-E

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**Mechanical Systems** 

CERTIFICATE OF COMPLIANCE

**Mechanical Systems** 

CERTIFICATE OF COMPLIANCE

01 Project Location (city)
02 Climate Zone

path outlined in <u>§140.4</u>, or <u>§141.0(b)2</u> for alterations.

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ַ	Project Address:			Date Prepar	red:						12/23/202
Ī	F. HVAC SYSTE	M SUMMARY (DRY & WET :	SYSTEMS)								
Ī	Dry System Equi	pment Sizing (includes air cor	nditioners, condensers, heat pumps, V	RF, furnaces and u	nit heaters)						
ı	01	02	03	04	05	06	07	08	09	10	11
ſ	AC-3D	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	200	200	0	183.54	170.54	99.81	206.36
	AC-4D	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	200	200	0	183.54	170.54	99.81	206.36
	AC-1E	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	96	96	0	85.66	77.86	63.69	102.81
	AC-2E	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	96	96	0	85.66	77.86	63.69	102.81
	AC-3E	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	49.15	<sup>∠</sup> 5.83	27.56	49.97
	AC-4E	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	49.15	45.83	27.56	49.97
	AC-5E	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	49.15	<b>45.83</b>	27.56	49.97
	AC-6E	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	49.15	45.83	27.56	49.97

<sup>&</sup>lt;sup>1</sup>FOOTNOTES: Equipment shall be the smallest size, withir the available options of the desired equipment line, necessary to meet the design heating and ccoling loads of the building per §140.4(a). Healthcare facilities are excepted. <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>3</sup> If eauipment 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>.

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System Name:	AC-1A	Econor	nizer:1	Fixed Enthalpy	Econon Contr		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
an Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	djustment - Table 140.4-8
Item Tag	Fan Functio	on	Qty	(CFM)	All llow	НР	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	7000		E	ЗНР	4.37	NA	NA
Total Syste	m Design Supply A	Airflow (CF	M):	7000	Total S	ystem   (B)HP:	Design	4.37	Maximum System Fan Power (B)HP:	6.58
System Name:	AC-2A	Econor	nizer:1	Fixed Enthalpy	Econon Contr		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
an Name or				Maximum Design Supply	Δirflow				Fan Power Pressure Drop A	<u> </u>
Item Tag	Fan Functio	on	Qty	(CFM)	Allilow	HP	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	6000			ЗНР	2.98	NA	NA
Total Syste	m Design Supply A	Airflow (CF	M):	6000	Total S	ystem (B)HP:	Design	2.98	Maximum System Fan Power (B)HP:	5.64
System Name:	AC-1B	Econor	nizer:1	Fixed Enthalpy	Econon Contr		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
an Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	
Item Tag	Fan Functio	on	Qty	(CFM)		НР	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	4000		E	ВНР	1.34	NA	NA
Total Syste	m Design Supply A	Airflow (CF	M):	4000	Total S	ystem (B)HP:	Design	1.34	Maximum System Fan Power (B)HP:	3.76

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Project Address:						Date	Prepared:			12/23/2020
H. FAN SYSTEN	/IS & AIR ECONO	MIZERS								
System Name:	AC-4C	Economize	er:1	Fixed Enthalpy	Econor		Designe	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	(	03	04			05	06	07	08
Fan Name or				Mayinayan Daviga Cyanly	Airflan				Fan Power Pressure Drop A	Adjustment - Table 140.4-B
Item Tag	Fan Functio	on C	Qty	Maximum Design Supply (CFM)	Airiiow	НР	<sup>2</sup> Unit <sup>2</sup>	Design HP	Device	Desigr Airflow through Device (CFM)
SF	Supply		1	2000		1	ВНР	0.86	NA	NA
Total Syste	m Design Supply A	airflow (CFM):		2000	Total S	ystem (B)HP:	Design	0.86	Maximum System Fan Power (B)HP:	1.88
System Name:	AC-5C	Economize	er:1	Fixed Enthalpy	Econon Contr		Designe	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	Adjustment - Table 140.4-E
Item Tag	Fan Functio	on C	Qty	(CFM)	Airiiow	НР	<sup>2</sup> Unit <sup>2</sup>	Design HP	Device	Desigr Airflow through Device (CFM)
SF	Supply		1	2000		1	ВНР	0.86	NA	NA
Total Syste	m Design Supply A	airflow (CFM):		2000	Total S	ystem (B)HP:	Design	0.86	Maximum System Fan Power (B)HP:	1.88
System Name:	AC-6C	Economize	er:1	Fixed Enthalpy	Econon Contr		Designe	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	(	03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop A	<u> </u>
Item Tag	Fan Functio	on C	Qty	(CFM)	7.1111OW	НР	<sup>o</sup> Unit <sup>2</sup>	Design HP	Device	Desigr Airflow through Device (CFM)
SF	Supply		1	2000	•		ВНР	0.86	NA	NA
Total Syste	m Design Supply A	irflow (CFM):		2000	Total S	ystem (B)HP:	Design	0.86	Maximum System Fan Power (B)HP:	1.88

Registration Provider: Energysoft Registration Date/Time: Report Generated: 2020-12-23 15:53:25 uilding Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-119844 INC: REVIEWED FOR SS FLS ACS



CALIFORNIA ENERGY COMMISSION

CALIFORNIA ENERGY COMMISSION

Registration Provider: Energysoft

NRCC-MCH-E

(Page 5 of 57)

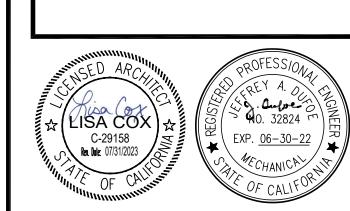
NRCC-MCH-E

**SOUTHERN CALIFORNIA** 8163 ROCHESTER AVENUE, SUITE 100 RANCHO CUCAMONGA

CALIFORNIA 91730-0729

TEL: 909-987-0909 www.wlcarchitects.com

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<u></u>		RE	VISIONS	
NO	DATE	BY	DES	CRIPTION
	222 000 000		. 800-317-3293	

DRAWN: RV	CHECKED:	JD
<b>DATE</b> : 03/10/2021	SCALE:	
PROJECT NUMBER: 1	726200	

**MECHANICAL** TITLE 24 **CALCULATIONS** 

01	ing systems.			datory cont					ntrols in <u>§140.4(fl</u> and (n) c			System Name:	AC-6E	OMIZERS  Economizer:1	Fixed Entha
01 System I	Syste Syste	em C	03 Conditioned Floor Area	11 811	04 nermostats 0.2(b) & (c) <sup>1</sup> ,	Shu	ut-Off	06 Isolation Zone	Demand Response	08 Supply Air Temp. Reset	09 Window Interlocks per	01 Fan Name or	02 Fan Functio	03 on Qty	Maximum Desig
AC-1	Zonir		eing Servec (ft <sup>2</sup> ) = 25,000 ft <sup>2</sup>	§120.2(a	a)or §141.0(b) Setback	12E §12 Auto	0.2(e) Timer	Controls §120.2(g) Hour Timer	§110.12 and §120.2(b)  EMCS	§140.4(f)	§140.4(n)  Provided	SF	Supply	1	20
AC-2			= 25,000 ft <sup>2</sup>	1	Setback	Auto	Timer	Hour Timer	EMCS	Included	Provided		stem Design Supply A : Computer room eco		2000 eet requirements o
AC-1			= 25,000 ft <sup>2</sup>	1	Setback	Sv	Timer	Hour Timer	EMCS	Included	Provided	<sup>2</sup> The unit use	d for HP must be cor	nsistent for all fans	within a system.
AC-2			= 25,000 ft <sup>2</sup> = 25,000 ft <sup>2</sup>	+	Setback Setback	Sv	vitch (	Hour Timer Hour Timer	EMCS EMCS	Included Included	Provided  Provided				
AC-4	B Single z	zone <	= 25,000 ft <sup>2</sup>	2	Setback	Auto Sv	Timer /	l Hour Timer	EMCS	Included	Provided				
AC-5 AC-6			= 25,000 ft <sup>2</sup> = 25,000 ft <sup>2</sup>		Setback Setback	Sv	Timer	Hour Timer Hour Timer	EMCS EMCS	Included Included	Provided  Provided				
AC-7			= 25,000 ft <sup>2</sup>		Setback	Auto	Timer	l Hour Timer	EMCS	Included	Provided				
AC-1			= 25,000 ft <sup>2</sup>	<u> </u>	Setback	Sv	Timer	l Hour Timer	EMCS	Included	Provided				
AC-2			= 25,000 ft <sup>2</sup> = 25,000 ft <sup>2</sup>	-	Setback Setback	Sv	vitch É	Hour Timer Hour Timer	EMCS EMCS	Included	Provided Provided				
te of Californ	rgy Efficiency Standards IIA <b>I Systems</b>	- 2019 N	lonresidentia	al Complianc	e	Report	Version: 20 a Version: r	019.1.003 ev 20200601		Report Ger	istration Provider: Energysoft nerated: 2020-12-23 15:53:25  RNIA ENERGY COMMISSION  NRCC-MCH-E (Page 24 of 57)	STATE OF CALIFO  Mechanic  NRCC-MCH-E	nergy Efficiency Standa RNIA cal Systems	ards - 2019 Nonreside	ential Compliance
oject Address:							Date Pre				12/23/2020	Project Addres	ss:		
VENTILATIO	M AND INDOOR AII		Ventilatio		per <u>§120.1(c)</u> # of Shower		Require	4	/ent per <u>§120.1(c)4</u>	DCV or Sensor	Controls per <u>§120.1(d)3</u> ,	J. VENTILAT  Space Name			ation Required per
ot item Tag	Occupancy	Type <sup>4</sup>		Floor Area (ft²)	heads/ toilets	# of people <sup>5</sup>	Min OA CFM		Provided per Design CFM		5, and <u>§120.1(e)3</u> <sup>6</sup>	ot item Tag		ncy Type⁴	Floor Area h
Zone 1B	Lecture/ postsecond	dary clas	ssroom	2356			895.3	0	0	DCV Occ Sensor	Provided per §120.1(d)4  NA: Not required	Zone 1A	Lecture/ postsec	condary classroom	2823
17	Total System Required 04	d Min O	A CFM		05		1194	18	Ventilation for this Sy 06		space type Yes 07	17	Total System Requ	ired Min OA CFM	
stem Name	AC-2B	3	9	System Des Airfl	ign OA CFM	512		m Design er Air CFM		Provided pe	\$120.1(c) and \$141.0(b)2 <sup>2</sup> er <u>\$120.1(c)</u> (NR and	System Name		C-2A	System Design C
08	09 Me	echanica	Nentilatio	10	11 per §120.1(c)	12 3 <sup>3</sup>	13	14	15 /ent per §120.1(c)4	Ho	otel/Motel)) 16	08		09 Mechanical Ventila	10
ace Name : item Tag	Occupancy		C	<u>'</u>	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Boguired	Provided per Design CFM		Controls per <u>§120.1(d)3</u> , 5, and <u>§120.1(e)3</u> <sup>6</sup>	Space Name ot item Tag		ncy Type <sup>4</sup>	Conditioned # of Floor Area h
Zone 2B	Lecture/ postsecond	dary clas	ssroom	1010			383.8	0	0	DCV Occ Sensor	Provided per §120.1(d)4 NA: Not required	Zone 2A	Lecture/ postsec	condary classroom	2823
17	Total System Required 04	d Min O	A CFM		05		512	18	Ventilation for this Sy 06		space type Yes 07	17	Total System Requ	ired Min OA CFM	
item Name	AC-3B	3	5	System Des Airfl	ign OA CFM	719		m Design er Air CFM		Provided pe	\$120.1(c) and \$141.0(b)2 <sup>2</sup> er \$120.1(c) (NR and	System Name		C-1B	System Design C
08	09			10	11	12	13	14	15	Ho	otel/Motel)) 16	08	0	09	10
e of Californ	rgy Efficiency Standards IIA <b>I Systems</b>	- 2019 N	lonresidentia	al Complianc	e		Version: 20 Version: r	019.1.003 ev 20200601		Report Ger	nerated: 2020-12-23 15:53:25	CA Building E	nergy Efficiency Standa	ards - 2019 Nonreside	ential Compliance
												state of califo <b>Mechanic</b>			
CC-MCH-E RTIFICATE OF ( pject Name:	COMPLIANCE						Report P			CALIFOI	RNIA ENERGY COMMISSION NRCC-MCH-E (Page 28 of 57)	Mechanic NRCC-MCH-E CERTIFICATE O Project Name:	F COMPLIANCE		
CC-MCH-E RTIFICATE OF ( pject Name: pject Address:		R OLIAI	ITY				Report P Date Pre			CALIFOI	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres	F COMPLIANCE	AIR OUALITY	
C-MCH-E TIFICATE OF (ect Name: ect Address: ENTILATIO	N AND INDOOR AII	-	Ventilatio	onditioned	per <u>§120.1(c)</u> # of Shower		Date Pre	pared:	/ent per §120.1(c)4	DCV or Sensor	NRCC-MCH-E (Page 28 of 57) 12/23/2020 Controls per §120.1(d)3,	Mechanic  NRCC-MCH-E  CERTIFICATE O  Project Name:  Project Addres  J. VENTILAT  Space Name	F COMPLIANCE  SS:  ION AND INDOOR		
C-MCH-E TIFICATE OF ( ject Name: ject Address:  VENTILATIO	N AND INDOOR AII	echanica	Ventilatio			3 3 # of people <sup>5</sup>	<del>-</del>	Exh. \	/ent per §120.1(c)4  Provided per Design CFM	DCV or Sensor §120.1(d)	NRCC-MCH-E (Page 28 of 57) 12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT	F COMPLIANCE  SS:  ION AND INDOOR		
IFICATE OF Control Name: Cott Address: ENTILATIO COTTO Name Cott N	N AND INDOOR AII	echanica	Ventilatio C	onditioned loor Area	# of Shower heads/	# of	Required Min OA	Exh. \	Provided per Design	DCV or Sensor	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required	Mechanic  NRCC-MCH-E  CERTIFICATE O  Project Name:  Project Addres  J. VENTILAT  Space Name	F COMPLIANCE  SS:  OCCUPAT	Mechanica Ventila	Conditioned # or Floor Area
-MCF-E TIFICATE OF Get Name: ect Address: ENTILATIO ICE Name item Tag	N AND INDOOR AII  Me  Occupancy	Type <sup>4</sup>	Ventilatio Confidence	onditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/	# of	Required Min OA CFM	Exh. \ d Required Min CFM 0	Provided per Design CFM	DCV or Sensor §120.1(d)  DCV  Occ Sensor	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag	F COMPLIANCE  SS:  OCCUPAT	Mechanica  Ventila ncy Type <sup>4</sup> condary classroom	Conditioned # o Floor Area (ft²)
C-MCH-E TIFICATE OF 0 ject Name: ject Address: CENTILATIO ace Name item Tag  Zone 2C	Occupancy  Lecture/ postsecond  Total System Required	Type <sup>4</sup> dary clas	SSTOOM A CFM	onditioned Floor Area (ft²) 1450	# of Shower heads/ toilets  05	# of	Required Min OA CFM 551 535	Exh. \ d Required Min CFM 0	Provided per Design CFM  0  Ventilation for this Sy 06	DCV or Sensor §120.1(d)  DCV  Occ Sensor  stem Complies?  Air Filtration per §	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B	F COMPLIANCE  SS:  OCCUPAT  Lecture/ postsec  Total System Requ  04	Mechanica  Ventila ncy Type <sup>4</sup> condary classroom	Conditioned # o Floor Area (ft²) 1
C-MCH-E TIFICATE OF 0 ject Name: ject Address:  VENTILATIO ace Name : item Tag  Zone 2C	Occupancy  Lecture/ postsecond  Total System Required  04  AC-3C	Type <sup>4</sup> dary clas	SSTOOM S	onditioned Floor Area (ft²) 1450 System Des Airfl	# of Shower heads/ toilets  05	# of people <sup>5</sup> 471  12	Required Min OA CFM 551 535	Exh. V d Required Min CFM 0 18 m Design or Air CFM	Provided per Design CFM  0  Ventilation for this Sy 06	DCV or Sensor §120.1(d) DCV Occ Sensor stem Complies? Air Filtration per §	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07 6120.1(c) and §141.0(b)2 2 er §120.1(c) (NR and ottel/Motel))  16	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B	Cal Systems F COMPLIANCE SS:  ION AND INDOOR  Occupar  Lecture/ postsec  Total System Requ  04  AC	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C	Conditioned Floor Area (ft²) 1  3133  System Design C Airflow¹  10
E-MCH-E TIFICATE OF G ect Name: ect Address:  ENT/LATIO ace Name item Tag  Zone 2C  17  tem Name  08  ace Name	Occupancy  Lecture/ postsecond  Total System Required  04  AC-3C	Type <sup>4</sup> dary clas	SSTOOM  A CFM  SUPPLY S	onditioned Floor Area (ft²)  1450  System Des Airfl 10  n Required	# of Shower heads/ toilets  05  ign OA CFM ow <sup>1</sup> 11	# of people <sup>5</sup> 471  12	Require Min OA CFM 551 735 Syster	Exh. \\ d Required Min CFM  0  18  m Design or Air CFM  14  Exh. \\ d Required Requi	Provided per Design CFM  0  Ventilation for this Sy 06  0  15	DCV or Sensor §120.1(d)  DCV  Occ Sensor stem Complies?  Provided performed	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07 §120.1(c) and §141.0(b)2 2 or §120.1(c) (NR and otel/Motel))	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B  17  System Name	CAI Systems  F COMPLIANCE  SS:  SS:  SON AND INDOOR  Occupar  Lecture/ postsec  Total System Requ  04  AC	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C	Conditioned Floor Area (ft²)  3133  System Design C Airflow¹  10  ation Required per
ent Address:  ENTILATIO  ICE Name item Tag  one 2C  17  em Name  08  ICE Name item Tag	Occupancy  Lecture/ postsecond  Total System Required  04  AC-30	Type <sup>4</sup> dary class d Min O	A CFM  SI Ventilatio  C F	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area	# of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c)  # of Shower heads/	# of people <sup>5</sup> 471  12  3 3 # of	Required Min OA CFM  551  735  System Transfer  13	Exh. \ d Required Min CFM  0  18  m Design or Air CFM  14  Exh. \ d Required Required	Provided per Design CFM  0  Ventilation for this Sy 06  0  15  Vent per §120.1(c)4  Provided per Design	DCV or Sensor §120.1(d)  DCV  Occ Sensor stem Complies?  Provided performed	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07 6120.1(c) and §141.0(b)2 2 er §120.1(c) (NR and otel/Motel))  16  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B  17  System Name 08  Space Name	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Occupar  Lecture/ postsec  Total System Requ  04  AC  Occupar	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  D9  Mechanical Ventila	System Design C Airflow¹  10  ation Required per street of the conditioned Floor Area
ect Name: ect Address: ENTILATIO ce Name item Tag one 2C 17 em Name 08 ce Name item Tag	Occupancy  Lecture/ postsecond  Total System Required  04  AC-3C  09  Me  Occupancy	Type <sup>4</sup> dary class Type <sup>4</sup> Type <sup>4</sup> dary class	SSTOOM  A CFM  SSTOOM  C F  SSTOOM  SSTOOM	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)	# of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c)  # of Shower heads/	# of people <sup>5</sup> 471  12  3 3 # of	Required Min OA CFM  551  735  System Transfer  13  Required Min OA CFM	Exh. \\ d Required Min CFM  0  18  The property of the propert	Provided per Design CFM  0  Ventilation for this Sy 06  0  15  /ent per §120.1(c)4  Provided per Design CFM	DCV or Sensor §120.1(d)  DCV  Occ Sensor  Stem Complies?  Provided pe Hc  DCV or Sensor §120.1(d)  DCV  Occ Sensor	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07 §120.1(c) and §141.0(b)2 2 er §120.1(c) (NR and otel/Motel))  16  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B  17  System Name 08  Space Name ot item Tag	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Occupar  Lecture/ postsec  Total System Requ  04  AC  Occupar	Mechanica Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanica Ventila  ncy Type <sup>4</sup> condary classroom	System Design C Airflow  10  ation Required per  Conditioned # or Floor Area (ft²)  10  ation Required per  Conditioned # or Floor Area (ft²)  t
ect Name: ect Address: ENTILATIO ace Name item Tag  one 2C  17  em Name  08  ace Name item Tag  one 3C  17	Occupancy  Lecture/ postsecond  Od  AC-3C  O9  Me  Occupancy  Lecture/ postsecond  Total System Required  AC-3C  Total System Required  Total System Required	Type <sup>4</sup> dary class d Min O  cechanica Type <sup>4</sup> dary class d Min O	SSTOOM  A CFM  C F  SSTOOM  A CFM  A CFM	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930	# of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c)  # of Shower heads/ toilets  05	# of people <sup>5</sup> 471  12  3 3 # of	Required Min OA CFM  551  735  System Transfer  13  Required Min OA CFM  353.4  471	Exh. \\ d Required Min CFM  0  18  The property of the propert	Provided per Design CFM  0  Ventilation for this Sy 06  15  /ent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy 06	DCV or Sensor §120.1(d)  DCV  Occ Sensor  Stem Complies?  Air Filtration per § Provided per Hc  DCV  Occ Sensor  \$120.1(d)  DCV  Occ Sensor  Stem Complies?  Air Filtration per § Provided per Stem Complies?	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07  §120.1(c) and §141.0(b)2 2 er §120.1(c) (NR and otel/Motel))  16  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07  §120.1(d)4  NA: Not required space type  Yes  07  §120.1(c) and §141.0(b)2 2 er §120.1(c) (NR and	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B  17  System Name ot item Tag  Zone Name ot item Tag	Cal Systems  F COMPLIANCE  SS:  SS:  SON AND INDOOR  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Lecture/ postsec  Total System Requ  O4	Mechanica Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanica Ventila  ncy Type <sup>4</sup> condary classroom	System Design C Airflow <sup>1</sup> 10  ation Required per Conditioned (ft²)  1450  System Design C Airflow <sup>1</sup> 10  System Design C Airflow <sup>1</sup> 10  Conditioned # of Floor Area (ft²)  1450
E-MCF-E TIFICATE OF Cect Name: ect Address: ENT/LATIO ace Name item Tag  Zone 2C  17  tem Name 08 ace Name item Tag  Zone 3C  17	N AND INDOOR AII  Me Occupancy  Lecture/ postsecond  O4  AC-3C  D9  Me Occupancy  Lecture/ postsecond  Total System Required  O4  AC-3C	Type <sup>4</sup> dary class d Min O  cechanica Type <sup>4</sup> dary class d Min O	SSTOOM  A CFM  C F  SSTOOM  A CFM  A CFM	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des	# of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c)  # of Shower heads/ toilets  05	# of people <sup>5</sup> 471  12  3  # of people <sup>5</sup>	Required Min OA CFM  551  735  System Transfer  13  Required Min OA CFM  353.4  471	Exh. \ d Required Min CFM  0  18  The property of the property	Provided per Design CFM    Ventilation for this Sy 06    Vent per \$120.1(c)4  Provided per Design CFM    Ventilation for this Sy 06	DCV or Sensor §120.1(d)  DCV  Occ Sensor  Stem Complies?  Air Filtration per § Provided per Hc  DCV  Occ Sensor  \$120.1(d)  DCV  Occ Sensor  Stem Complies?  Air Filtration per § Provided per Stem Complies?	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07  \$120.1(c) and §141.0(b)2 2 er §120.1(c) (NR and otel/Motel))  16  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07  \$120.1(d)4  NA: Not required space type  Yes  07  \$120.1(c) and §141.0(b)2 2	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B  17  System Name ot item Tag  Zone 1C	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Occupar  Lecture/ postsec  Total System Requ  O4  Lecture/ postsec  Total System Requ  O4  AC  AC  AC  AC  AC  AC  AC  AC  AC  A	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM	System Design C Airflow 1  Conditioned   # or   h   h   h   h   h   h   h   h   h
C-MCH-E TIFICATE OF C ect Name: ect Address:  (ENTILATIO ace Name item Tag  Zone 2C  17  tem Name o8 ace Name item Tag  Zone 3C  17  tem Name o8	Decoupancy  Lecture/ postsecond  Total System Required  04  AC-3C  09  Me  Occupancy  Lecture/ postsecond  Total System Required  04  AC-4C  09	dary classechanica Type <sup>4</sup> dary classechanica Type <sup>4</sup> dary classechanica	A CFM  A CFM  A CFM  SSROOM  A CFM	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10	# of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c)  # of Shower heads/ toilets  05  ign OA CFM ow¹  11	# of people <sup>5</sup> 471  12  3 3  # of people <sup>5</sup> 588  12  Registra	Required Min OA CFM  551  735  System Transfer  13  Required Min OA CFM  353.4  471  System Transfer  13	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM    Ventilation for this Sy  06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy  06	DCV or Sensor \$120.1(d)  DCV  Occ Sensor  Stem Complies?  Provided pe HC  DCV  Occ Sensor  \$120.1(d)  DCV  Air Filtration per \$ Provided per HC  Provided per HC  Reg	NRCC-MCH-E (Page 28 of 57)  12/23/2020  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07  6120.1(c) and §141.0(b)2 2 er §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07  6120.1(c) (NR and otel/Motel))  16  Controls per §120.1(d)3, 5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07  6120.1(c) and §141.0(b)2 2 er §120.1(c) (NR and otel/Motel))	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B  17  System Name ot item Tag  Zone 1C  17  System Name ot item Tag	Cal Systems  F COMPLIANCE  SS:  SS:  SION AND INDOOR  Occupar  Lecture/ postsec  Total System Requ  O4  COCCUPAR  COCCUPAR  ACCUPAR  ACCUP	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C	System Design C Airflow  Conditioned from Area (ft²)  System Design C Airflow  10  ation Required per c Conditioned from Area (ft²)  1450  System Design C Airflow  10  11  12  1450
C-MCF-E RTIFICATE OF C ject Name: ject Address:  /ENTILATIO cace Name t item Tag  Zone 2C  17  ctem Name titem Tag  Zone 3C  17  ctem Name ace Name titem Tag  Zone 3C  17  ctem Name  08	Decupancy  Lecture/ postsecond  Total System Required  04  AC-3C  09  Me  Occupancy  Lecture/ postsecond  Total System Required  04  AC-4C  09  mber:  rgy Efficiency Standards	dary classechanica Type <sup>4</sup> dary classechanica Type <sup>4</sup> dary classechanica	A CFM  A CFM  A CFM  SSROOM  A CFM	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10	# of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c)  # of Shower heads/ toilets  05  ign OA CFM ow¹  11	# of people <sup>5</sup> 471  12  3 3  # of people <sup>5</sup> 588  12  Registra	Required Min OA CFM  551  735  System Transfer  13  Required Min OA CFM  353.4  471  System Transfer  13	pared:  Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM    Ventilation for this Sy  06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy  06	DCV or Sensor \$120.1(d)  DCV  Occ Sensor  Stem Complies?  Provided pe HC  DCV  Occ Sensor  \$120.1(d)  DCV  Air Filtration per \$ Provided per HC  Provided per HC  Reg	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE O Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B  17  System Name ot item Tag  Zone 1C  17  System Name ot item Tag  Zone 1C  17  System Name ot item Tag  System Name ot item Tag  Zone 1C	Cal Systems  F COMPLIANCE  SS:  SS:  SION AND INDOOR  Occupar  Lecture/ postsec  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Lecture/ postsec  Total System Requ  O4  Comparison of the compari	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C	System Design C Airflow  Conditioned from Area (ft²)  3133  System Design C Airflow  10  ation Required per  Conditioned from Area (ft²)  1450  System Design C Airflow  10
C-MCF-E RTIFICATE OF 0 ject Name: ject Address:  /ENTILATIO  lace Name t item Tag  Zone 2C  17  stem Name  ace Name t item Tag  Zone 3C  17  stem Name  08  A Building Ene  C C-MCF-E RTIFICATE OF 0	N AND INDOOR AII  Me Occupancy  Lecture/ postsecond  O4  AC-3C  O9  Me Occupancy  Lecture/ postsecond  Total System Required  O4  AC-4C  O9  mber: rgy Efficiency Standards	dary classechanica Type <sup>4</sup> dary classechanica Type <sup>4</sup> dary classechanica	A CFM  A CFM  A CFM  SSROOM  A CFM	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10	# of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c)  # of Shower heads/ toilets  05  ign OA CFM ow¹  11	# of people <sup>5</sup> 471  12  3 3  # of people <sup>5</sup> 588  12  Registra	Required Min OA CFM  551  735  System Transfer  13  Required Min OA CFM  353.4  471  System Transfer  13  Version: 14  Version: 17	pared:  Exh. \ \ d Required Min CFM  0  18  The part of the part o	Provided per Design CFM    Ventilation for this Sy  06  0  15  Vent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy  06	DCV or Sensor §120.1(d)  DCV  Occ Sensor  Stem Complies?  Air Filtration per § Provided per Hc  DCV  Occ Sensor  Stem Complies?  Air Filtration per § Provided per Hc  Reg  Report Ger	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Name: Project Addres  J. VENTILAT  Space Name ot item Tag  Zone 7B  17  System Name ot item Tag  Zone 1C  17  System Name ot item Tag	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Occupar  Lecture/ postsec  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Lecture/ postsec  Total System Requ  O4  AC  CO  CO  CO  CO  CO  CO  CO  CO  CO	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C	System Design C Airflow  Conditioned from Area (ft²)  3133  System Design C Airflow  10  ation Required per  Conditioned from Area (ft²)  1450  System Design C Airflow  10
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C-MCH-E CTIFICATE OF G ject Name: ject Address:  /ENTILATIO  ace Name t item Tag  Zone 2C  17  tem Name  08  ace Name t item Tag  Zone 3C  17  tem Name  08  gistration Num  Building Ene  E OF CALIFORN  C-MCH-E CTIFICATE OF G ject Address:  /ENTILATIO  ace Name t item Tag	N AND INDOOR AII  Me Occupancy  Lecture/ postsecond O4  AC-3C  09  Me Occupancy  Lecture/ postsecond Total System Required 04  AC-4C  09  mber: rgy Efficiency Standards  I Systems  COMPLIANCE	echanica Type <sup>4</sup> dary class d Min O dechanica Type <sup>4</sup> dary class d Min O dechanica Type <sup>4</sup> R QUAL echanica Type <sup>4</sup>	A CFM  A CFM  Seroom  A CFM  Seroom  Control  A CFM  Control  Cont	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10  n Required onditioned Floor Area onditioned Floor Area	# of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c)  # of Shower heads/ toilets  05  ign OA CFM ow¹  11  e  per §120.1(c)  # of Shower heads/  toilets	# of people <sup>5</sup> 471  12  3 3 # of people <sup>5</sup> 588  12  Registra Report Schema  3 3 # of	Requirement of the second of t	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM    Ventilation for this Sy 06  0  15  /ent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy 06  //ent per §120.1(c)4  Provided per Design CFM  //ent per §120.1(c)4  Provided per Design	DCV or Sensor \$120.1(d)  DCV  Occ Sensor  Stem Complies?  Provided pe Hc  DCV  Occ Sensor  \$120.1(d)  DCV  Occ Sensor  stem Complies?  Air Filtration per \$ Provided pe Hc  Reg Report Ger  CALIFOI	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Name: Project Address  J. VENTILAT  Space Name of item Tag  Zone 7B  17  System Name of item Tag  Zone 1C  17  System Name of item Tag  Zone	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Occupar  Lecture/ postsec  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Occupar  Occupar  Occupar  Occupar  Occupar  Occupar  Occupar	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C  09  ards - 2019 Nonreside  A AIR QUALITY  Mechanical Ventila	Conditioned Floor Area (ft²)  3133  System Design C Airflow¹  10  ation Required per (ft²)  1450  System Design C Airflow¹  10  10  ation Area (ft²)  1450  ft²  System Design C Airflow¹  10  Floor Area (ft²)  10  ation Required per floor Area (ft²)
C-MCH-E RIFICATE OF G ject Name: ject Address:  /ENTILATIO  acce Name t item Tag  Zone 2C  17  stem Name  08  Zone 3C  17  stem Name  08  Zone 3C  17  stem Name  item Tag  Zone 4C  A Building Ene  E OF CALIFORN echanica C-MCH-E RIFICATE OF G ject Name: ject Address:  /ENTILATIO  acce Name t item Tag  Zone 10C	N AND INDOOR AII  Me Occupancy  Lecture/ postsecond O4  AC-3C  D9  Me Occupancy  Lecture/ postsecond Total System Required O4  AC-4C  D9  The Company  Me Occupancy  Total System Required O4  AC-4C  D9  Total	dary classechanica Type <sup>4</sup> dary classechanica	A CFM  A CFM  Ssroom  A CFM  Ssroom  A CFM  C F  Ssroom  C F  C F  C F  C F  C F  C F  C F  C	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10  n Required onditioned Floor Area (ft²)	# of Shower heads/ toilets  05  ign OA CFM ow¹  11  per §120.1(c)  # of Shower heads/ toilets  05  ign OA CFM ow¹  11  e  per §120.1(c)  # of Shower heads/  toilets	# of people <sup>5</sup> 471  12  3 3 # of people <sup>5</sup> 588  12  Registra Report Schema  3 3 # of	Required Min OA CFM  551  735  System Transfer  13  Required Min OA CFM  471  System Transfer  13  Ation Date, Version: 13  Report P Date Present Pres	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM    Ventilation for this Sy 06   0  15  /ent per §120.1(c)4  Provided per Design CFM    Ventilation for this Sy 06  /ent per §120.1(c)4  Provided per Design CFM     Ventilation for this Sy 06   /ent per §120.1(c)4  Provided per Design CFM    /ent per §120.1(c)4  Provided per Design CFM    Ventilation for this Sy 06	DCV or Sensor \$120.1(d)  DCV Occ Sensor Stem Complies?  Provided pensor \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  Provided pensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  CALIFOL	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Name: Project Address  J. VENTILAT  Space Name of item Tag  Zone 7B  17  System Name of item Tag  Zone 1C  17  System Name of item Tag  J. VENTILAT  Space Name of item Tag  System Name of item Tag  NRCC-MCH-E CERTIFICATE OF Project Name: Project Address  J. VENTILAT  Space Name of item Tag	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Occupar  Lecture/ postsec  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Occupar  Occupar  Occupar  Occupar  Occupar  Occupar  Occupar  Occupar	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C  09  ards - 2019 Nonreside  A AIR QUALITY  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom	Conditioned floor Area (ft²)  3133  System Design C Airflow¹  10  ation Required per Conditioned floor Area (ft²)  1450  System Design C Airflow¹  10  ation Area (ft²)  1450  Floor Area (ft²)  10  ation Required per Conditioned floor Area (ft²)  10  ation Required per Conditioned floor Airflow¹  10
C-MCH-E CTIFICATE OF G ject Name: ject Address:  ZONE 2C  17  tem Name 08  ace Name titem Tag  ZONE 3C  17  tem Name 08  gistration Num Building Ene E OF CALIFORN echanica charte titem Tag  ZONE TIFICATE OF G ject Name: ject Address:  ZONE 10C  17  TONE TIFICATE OF G ject Name titem Tag  ZONE 10C  17	N AND INDOOR AII  Cocupancy  Lecture/ postsecond  O4  AC-3C  O9  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-4C  Total System Required  O4  AC-4C  Total System Required  O4  AC-4C  O9  The Company  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-4C  O9  Total Systems  COMPLIANCE  TOTAL Systems  COMPLIANCE  Total System Required  Cocupancy  Lecture/ postsecond  Total System Required	dary classed Min One chanical Type dary classed Min One chanical Min One change Chanical Min One change Min One chanical	A CFM  Seroom  A CFM  Control of the	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10  n Required onditioned Floor Area (ft²)  11  12  13  14  15  15  16  17  17  18  18  18  18  18  18  18  18	# of Shower heads/ toilets    O5     I1     Per §120.1(c)   # of Shower heads/ toilets     I1     Per §120.1(c)   # of Shower heads/ toilets     I1   Per §120.1(c)     I1   Per §120.1(c)   I1   Per §120.1(c)   Per §120.1(c	# of people <sup>5</sup> 471  12  3 3 # of people <sup>5</sup> 588  12  Registra Report Schema  3 3 # of	Requirement of the property of	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM    Ventilation for this Sy 06   0  15  /ent per §120.1(c)4  Provided per Design CFM    Ventilation for this Sy 06  /ent per §120.1(c)4  Provided per Design CFM     Ventilation for this Sy 06   /ent per §120.1(c)4  Provided per Design CFM    /ent per §120.1(c)4  Provided per Design CFM    Ventilation for this Sy 06	DCV or Sensor \$120.1(d)  DCV Occ Sensor Stem Complies?  Provided per Horical Sensor Se	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Name: Project Address  J. VENTILAT  Space Name of item Tag  Zone 7B  17  System Name of item Tag  Zone 1C  17  System Name of item Tag  Zone 8C  Zone 8C	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Coccupar  Lecture/ postsec  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Coccupar  Lecture/ postsec  Total System Requ  O4  Coccupar  Lecture/ postsec  Total System Requ  O4  AC  Coccupar  Lecture/ postsec  Total Systems  F COMPLIANCE  SS:  ION AND INDOOR  Coccupar  Lecture/ postsec  Total Systems  F COMPLIANCE  SS:	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C  09  ards - 2019 Nonreside  A AIR QUALITY  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom	Conditioned # of Floor Area (ft²)  3133  System Design C Airflow¹  10  ation Required per  Conditioned f(ft²)  1450  System Design C Airflow¹  10  ation Required per  Conditioned # of Floor Area (ft²)  10  system Design C Airflow²  20  System Design C Airflow²  3133
TIFICATE OF CALLIFORN Building Ene  E OF CALLIFORN ECT Name:  E OF CAL	NAND INDOOR AII  Coccupancy  Lecture/ postsecond  Od  AC-3C  O9  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-4C  O9  mber:  rgy Efficiency Standards  I Systems  COMPLIANCE  N AND INDOOR AII  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-4C  O9  Total System Required  AC-11C  O9	dary classechanica Type <sup>4</sup>	A CFM  A CFM  Seroom  A CFM  Continuo o o o o o o o o o o o o o o o o o o	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10  n Required onditioned Floor Area (ft²)  11  12  13  14  15  15  16  17  18  18  18  19  19  19  10  10  10  10  10  10  10	# of Shower heads/ toilets    05     11     per §120.1(c)   # of Shower heads/ toilets    05     ign OA CFM ow¹     11	# of people <sup>5</sup> 471  12  3 3 # of people <sup>5</sup> 588  12  Registra Report Schema  3 3 # of people <sup>5</sup>	Requirement of the second of t	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM   Ventilation for this Sy 06  0  15  /ent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy 06  0  15  /ent per §120.1(c)4  Provided per Design CFM  0  15  /ent per §120.1(c)4  Provided per Design CFM  /ent per §120.1(c)4  Provided per Design CFM  /ent per §120.1(c)4	DCV or Sensor \$120.1(d)  DCV  Occ Sensor  Stem Complies?  Air Filtration per \$ Provided per Ho  DCV  Occ Sensor  Stem Complies?  Air Filtration per \$ Provided per Ho  CALIFOR  CALIFOR  DCV  Occ Sensor  Stem Complies?  Air Filtration per \$ Provided per Ho  CALIFOR  CALIFOR  DCV  Occ Sensor  Stem Complies?	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Name: Project Address  J. VENTILAT  Space Name of item Tag  Zone 7B  17  System Name of item Tag  Zone 1C  17  System Name of item Tag  Zone Address  J. VENTILAT  Space Name of item Tag  Zone 8C  17  System Name of item Tag	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Coccupar  Lecture/ postsec  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Coccupar  Lecture/ postsec  Total System Requ  O4  Coccupar  Lecture/ postsec  Total System Requ  O4  Coccupar  Lecture/ postsec  Total Systems  F COMPLIANCE  SS:  ION AND INDOOR  Coccupar  Lecture/ postsec  Total Systems  F COMPLIANCE  SS:  Compliance  Total System Requ  O4  AC  Coccupar  Coccu	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C  09  ards - 2019 Nonreside  A AIR QUALITY  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C	Conditioned Floor Area (ft²)  System Design C Airflow¹  10  ation Required per  Conditioned ft²)  1450  System Design C Airflow¹  10  ation Required per  Conditioned ft²)  System Design C Airflow¹  10  System Design C Airflow¹  10  ation Required per
C-MCH-E RIFICATE OF G ject Name: ject Address:  /ENTILATIO  acce Name t item Tag  Zone 2C  17  stem Name 08  Zone 3C  17  stem Name 08  A Building Ene  TE OF CALIFORN echanica C-MCH-E RIFICATE OF G ject Name: ject Address:  /ENTILATIO  acce Name t item Tag  Zone 10C  17  stem Name 08  A Building Ene  TE OF CALIFORN echanica C-MCH-E RIFICATE OF G ject Name: ject Address:  /ENTILATIO  acce Name t item Tag  Zone 10C  17  stem Name 08  acce Name Te OR CALIFORN echanica C-MCH-E RIFICATE OF G ject Name: ject Address:	NAND INDOOR AII  Coccupancy  Lecture/ postsecond  Od  AC-3C  O9  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-4C  O9  mber:  rgy Efficiency Standards  I Systems  COMPLIANCE  N AND INDOOR AII  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-4C  O9  Total System Required  AC-11C  O9	echanica Type <sup>4</sup> dary class d Min O dary class	A CFM  Continuo al Ventilatio  A CFM  Continuo al Ventilatio	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10  n Required onditioned Floor Area (ft²)  11  12  13  14  15  15  16  17  18  18  18  19  19  19  10  10  10  10  10  10  10	# of Shower heads/ toilets    OS     III     Per §120.1(c)   # of Shower heads/ toilets     III     Per §120.1(c)   # of Shower heads/ toilets     III   Per §120.1(c)     III   Per §120.1(c)   Per §120.1(c)	# of people <sup>5</sup> 471  12  3 3 # of people <sup>5</sup> 588  12  Registra Report Schema  3 3 # of people <sup>5</sup>	Requirement of the property of	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM    Ventilation for this Sy 06  0  15  /ent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy 06  0  15  /ent per §120.1(c)4  Provided per Design CFM  0  15  /ent per §120.1(c)4  Provided per Design CFM  0  15	DCV or Sensor \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  CALIFOI  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Name: Project Address  J. VENTILAT  Space Name of item Tag  Zone 7B  17  System Name of item Tag  Zone 1C  17  System Name of item Tag  Zone 8C  17  System Name of item Tag	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Coccupar  Lecture/ postsec  Occupar  Lecture/ postsec  Total System Requ  O4  AC  Coccupar  Lecture/ postsec  Total System Requ  O4  Coccupar  Lecture/ postsec  Total System Requ  O4  Coccupar  Lecture/ postsec  Total Systems  F COMPLIANCE  SS:  ION AND INDOOR  Coccupar  Lecture/ postsec  Total Systems  F COMPLIANCE  SS:  Compliance  Total System Requ  O4  AC  Coccupar  Coccu	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C  09  ards - 2019 Nonreside  A AIR QUALITY  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  uired Min OA CFM  C-2C	Conditioned # of Floor Area (ft²)
C-MCF-E RTIFICATE OF G ject Name: ject Address:  /ENTILATIO lace Name t item Tag  Zone 2C  17  Stem Name  08  A Building Ene  SE OF CALIFORN echanica C-MCF-E RTIFICATE OF G ject Name: ject Address:  /ENTILATIO lace Name t item Tag  Zone 10C  17  Stem Name  08  A Building Ene  STIFICATE OF G ject Name: ject Address:  /ENTILATIO lace Name t item Tag  RTIFICATE OF G ject Name: ject Address:  /ENTILATIO  stem Name  08  A Building Ene  STIFICATE OF G ject Name: ject Address:	N AND INDOOR AII  Coccupancy  Lecture/ postsecond  O4  AC-3C  O9  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-4C  Total System Required  O4  AC-4C  O9  Mber:  Tryy Efficiency Standards  I Systems  COMPLIANCE  IN AND INDOOR AII  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-110  O9  Me	dary classed Min One chanical Type dechanical	A CFM  A CFM  Ssroom  C F	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10  n Required onditioned Floor Area (ft²)  11  12  n Required onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)	# of Shower heads/ toilets    05     11     per §120.1(c)   # of Shower heads/ toilets    05     11	# of people <sup>5</sup> 471  12  3 3 # of people <sup>5</sup> 588  12  Registra Report Schema  3 3 # of people <sup>5</sup> 1089  123  # of	Required Min OA CFM  System Transfe  13  Required Min OA CFM  353.4  471  System Transfe  13  Required Min OA CFM  System Transfe  13  Required Min OA CFM  System Transfe  13  Required Min OA CFM  Figure Min OA CFM  System Transfe  13  Required Min OA CFM  Figure Min OA CFM  System Transfe  Required Min OA CFM  Required Min OA CFM  System Transfe	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM   Ventilation for this Sy 06  0  15  /ent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy 06  0  15  /ent per §120.1(c)4  Provided per Design CFM  0  15  /ent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy 06  /ent per §120.1(c)4  Provided per Design CFM  0  Ventilation for this Sy 06	DCV or Sensor \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  CALIFOI  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Name: Project Address  J. VENTILAT  Space Name of item Tag  Zone 7B  17  System Name of item Tag  Zone 1C  17  System Name of item Tag  Zone Address  J. VENTILAT  Space Name of item Tag  Zone 8C  17  System Name of item Tag  Zone 8C  17  System Name of item Tag  Zone 8C	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Cocupar  Lecture/ postsec  Total System Requ  O4  Cal  Cal  Cal  Cal  Cal  Cal  Cal  Ca	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  dired Min OA CFM  C-1C  09  Mechanical Ventila  condary classroom  dired Min OA CFM  C-2C  09  ards - 2019 Nonreside  A AIR QUALITY  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  dired Min OA CFM  C-2C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  dired Min OA CFM  C-9C  09  Mechanical Ventila	Conditioned floor Area (ft²)  System Design C Airflow¹  10  ation Required per Conditioned floor Area (ft²)  1450  System Design C Airflow¹  10  ation Required per Conditioned floor Area (ft²)  10  ation Required per Conditioned floor Area (ft²)  5ystem Design C Airflow¹  10  ation Required per Conditioned floor Area (ft²)  5ystem Design C Airflow¹  10  ation Required per Conditioned floor Area floor Are
ZONE 2C  TYPE STEER NAME  THE OF CALIFORN  CHAPTER NAME  TO BE COF CALIFORN  TO BE COF	Total System Required Occupancy  Lecture/ postsecond O4  AC-3C  O9  Me Occupancy  Lecture/ postsecond Total System Required O4  AC-4C  O9  mber: rgy Efficiency Standards I Systems COMPLIANCE  IN AND INDOOR AII  Me Occupancy  Lecture/ postsecond Total System Required O4  AC-110  O9  Me Occupancy	dary classed Min Order Classed	A CFM  A CFM  Seroom  A CFM  Control of the control	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required conditioned Floor Area (ft²)  930  System Des Airfl  10  n Required conditioned Floor Area (ft²)  10  n Required conditioned Floor Area (ft²)  10  n Required conditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required conditioned Floor Area (ft²)	# of Shower heads/ toilets    05     11     per §120.1(c)   # of Shower heads/ toilets    05     11	# of people <sup>5</sup> 471  12  3 3 # of people <sup>5</sup> 588  12  Registra Report Schema  3 3 # of people <sup>5</sup> 1089  123  # of	Required Min OA CFM  System Transfer 13  Required Min OA CFM  353.4  471  System Transfer 13  Required Min OA CFM  Fransfer 13  Required Min OA CFM  System Transfer 13  Required Min OA CFM  Report P Date President 13  Required Min OA CFM  Fransfer 13  Required Min OA CFM  Required Min OA CFM  Required Min OA CFM  Fransfer 13	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM  O  Ventilation for this Sy 06  O  15  /ent per §120.1(c)4  Provided per Design CFM  O  Ventilation for this Sy 06  O  15  /ent per §120.1(c)4  Provided per Design CFM  O  15  /ent per §120.1(c)4  Provided per Design CFM  O  Ventilation for this Sy 06	DCV or Sensor \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  Provided per Hood Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Name: Project Address  J. VENTILAT  Space Name of item Tag  Zone 7B  17  System Name of item Tag  Zone 1C  17  System Name of item Tag  Zone 8C  17	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Cocupar  Lecture/ postsec  Total System Requ  O4  Cal  Cal  Cal  Cal  Cal  Cal  Cal  Ca	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  dired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  dired Min OA CFM  C-2C  09  ards - 2019 Nonreside  A AIR QUALITY  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  dired Min OA CFM  C-9C  09  Mechanical Ventila  condary classroom  dired Min OA CFM  condary classroom	Conditioned # or Floor Area (ft²)
ZONE 2C  17  Stem Name titem Tag  Zone 3C  17  Stem Name O8  A Building Ene  RIFICATE OF CALIFORN echanica COMCI-E RIFICATE COMCI RIFICATE C	IN AND INDOOR AII  Coccupancy  Lecture/ postsecond  Total System Required  O4  AC-3C  O9  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-4C  O9  mber:  rgy Efficiency Standards  I Systems  COMPLIANCE  IN AND INDOOR AII  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-110  O9  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-110  O9  Me  Total System Required  Occupancy  Lecture/ postsecond  Total System Required  Occupancy  Lecture/ postsecond  Total System Required	dary classed Min One chanical Type dechanical Min One chanical Type dechanical Type dechanical Type dechanical Type dechanical Min One chanical Min One change Min One chanical	A CFM	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10  n Required onditioned Floor Area (ft²)  110  n Required onditioned Floor Area (ft²)  2150  System Des Airfl  10  n Required onditioned Floor Area (ft²)  2150	# of Shower heads/ toilets  05 ign OA CFM ow¹  11 per §120.1(c) # of Shower heads/ toilets  05 ign OA CFM ow¹  11  e  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 people <sup>5</sup> 471  12  3 3 # of people <sup>5</sup> 588  12  Registra Report Schema  3 3 # of people <sup>5</sup> 1089  123  # of	Required Min OA CFM  System Transfer 13  Required Min OA CFM  System Transfer 13  Required Min OA CFM  ATT 1  System Transfer 13  Required Min OA CFM  Report Properties 13  Required Min OA CFM  Required Min OA CFM  System Transfer 13  Required Min OA CFM  Required Min OA CFM  System Transfer 13  Required Min OA CFM  System Transfer 13  Required Min OA CFM  Required Min OA CFM  System Transfer 13  Requir	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM  O  Ventilation for this Sy 06  O  15  /ent per §120.1(c)4  Provided per Design CFM  O  Ventilation for this Sy 06  O  15  /ent per §120.1(c)4  Provided per Design CFM  O  15  /ent per §120.1(c)4  Provided per Design CFM  O  Ventilation for this Sy 06	DCV or Sensor \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  Provided per Hood Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Name: Project Address  J. VENTILAT  Space Name of item Tag  Zone 7B  17  System Name of item Tag  Zone 1C  17  System Name O8  Registration N CA Building E  STATE OF CALIFO Mechanic NRCC-MCH-E CERTIFICATE OF Project Address  J. VENTILAT  Space Name of item Tag  Zone 8C  17  System Name O8  State OF CALIFO NRCC-MCH-E CERTIFICATE OF Project Address  J. VENTILAT  Space Name of item Tag  Zone 8C  17  System Name O8  Space Name of item Tag  Zone 9C	CALLECTURE / postsect  Total Systems  F COMPLIANCE  SS:  COMPLIANCE  COMPLIANCE  COMPLIANCE  COMPLIANCE  SS:  COMPLIANCE  COMPLIANCE  SS:  COMPLIANCE  COMPLIANCE  SS:  COMPLIANCE  SS:  COMPLIANCE  COMPLIANCE  SS:  COMPLIANCE  COMPLIANCE  COMPLIANCE  COMPLIANCE  SS:  COMPLIANCE  COMPLIA	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  dired Min OA CFM  C-1C  09  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  dired Min OA CFM  C-2C  09  ards - 2019 Nonreside  A AIR QUALITY  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  dired Min OA CFM  C-9C  09  Mechanical Ventila  condary classroom  dired Min OA CFM  condary classroom	Conditioned # of Floor Area (ft²)
CC-MCH-E RITIFICATE OF Coject Name: oject Address:  VENTILATIO  pace Name on item Tag  Zone 2C  17  /stem Name  08  pace Name on item Tag  Zone 3C  17  /stem Name  08  Registration Number of the Chanica of CALIFORN lechanica of CALIFORN lechanica of CC-MCH-E RITIFICATE OF Coject Name: oject Address:  VENTILATIO  pace Name on item Tag  Zone 10C  17  /stem Name  08  Zone 10C  17  /stem Name  2	Total System Required  O4  AC-3C  Total System Required  O4  AC-4C  D9  Total System Required  O4  AC-4C  D9  Total System Required  O4  AC-11C  O9  Me  Occupancy  Lecture/ postsecond  Total System Required  O4  AC-11C  O9  Me  Occupancy	dary classed Min One chanical Type dechanical Min One chanical Type dechanical Type dechanical Type dechanical Type dechanical Min One chanical Min One change Min One chanical	A CFM	onditioned Floor Area (ft²)  1450  System Des Airfl  10  n Required onditioned Floor Area (ft²)  930  System Des Airfl  10  n Required onditioned Floor Area (ft²)  110  n Required onditioned Floor Area (ft²)  2150  System Des Airfl  10  n Required onditioned Floor Area (ft²)  2150  System Des Airfl  10  n Required onditioned Floor Area (ft²)  2150	# of Shower heads/ toilets  05 ign OA CFM ow¹  11 per §120.1(c) # of Shower heads/ toilets  05 ign OA CFM ow¹  11  e  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 people <sup>5</sup> 471  12  3 3 # of people <sup>5</sup> 588  12  Registra Report Schema  3 3 # of people <sup>5</sup> 1089  1089  123  4 of people <sup>5</sup>	Required Min OA CFM  System Transfer 13  Required Min OA CFM  System Transfer 13  Required Min OA CFM  ATT 1  System Transfer 13  Required Min OA CFM  Report Properties 13  Required Min OA CFM  Required Min OA CFM  System Transfer 13  Required Min OA CFM  Required Min OA CFM  System Transfer 13  Required Min OA CFM  System Transfer 13  Required Min OA CFM  Required Min OA CFM  System Transfer 13  Requir	Exh. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provided per Design CFM   O  Ventilation for this Sy  06  O  15  /ent per §120.1(c)4  Provided per Design CFM  O  Ventilation for this Sy  06  O  15  /ent per §120.1(c)4  Provided per Design CFM  O  Ventilation for this Sy  06	DCV or Sensor \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  Provided per Hood Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?  Air Filtration per \$120.1(d)  DCV Occ Sensor Stem Complies?	NRCC-MCH-E	Mechanic NRCC-MCH-E CERTIFICATE OF Project Address  J. VENTILAT  Space Name of item Tag  Zone 7B  17  System Name of item Tag  Zone 1C  17  System Name of item Tag  Zone 8C  17  System Name of item Tag  Zone 8C  17  System Name of item Tag  Zone 9C  17	Cal Systems  F COMPLIANCE  SS:  ION AND INDOOR  Coccupar  Lecture/ postsec  Total System Requ  O4  Coccupar  Lecture/ postsec  Total System Requ  O4  AC  Coccupar  Lecture/ postsec  Total System Requ  O4  AC  Coccupar  Lecture/ postsec  Total Systems  F COMPLIANCE  SS:  ION AND INDOOR  Coccupar  Lecture/ postsec  Total System Requ  O4  AC  Coccupar  AC  AC  Coccupar  AC  AC  Coccupar  AC  AC  Coccupar  AC  AC  AC  AC  AC  AC  AC  AC  AC  A	Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  aired Min OA CFM  C-1C  D9  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  aired Min OA CFM  C-2C  D9  ards - 2019 Nonreside  a AIR QUALITY  Mechanical Ventila  ncy Type <sup>4</sup> condary classroom  aired Min OA CFM  C-9C  D9  Mechanical Ventila  condary classroom  aired Min OA CFM  condary classroom  aired Min OA CFM  condary classroom  aired Min OA CFM	Conditioned # of Floor Area (ft²)
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NRCC-MCH-E (Page 20 of 57) 12/23/2020

STATE OF CALIFORNIA

**Mechanical Systems** 

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E  CERTIFICATE OF  Project Name:	compliance				Report Pa	ge:			CALIFOR	NIA ENERGY COMM NRCC (Page 1	-МСН-Е	Mechanica NRCC-MCH-E CERTIFICATE OF Project Name:	COMPLIANC	E
Project Name: Project Address	:				Date Prep						23/2020	Project Address:		
I. FAN SYSTE System Name:	AC-6E Economize	er: <sup>1</sup> Fixed E	Inthalpy	Econom			r <u>§140.4(e)</u> and (m)	Syste	em Fan Type:	Constant Volun	ne	H. FAN SYSTE  System  Name:	MS & AIR	E Econom
01 Fan Name or		03 Maximum	04 Design Suppl		05		06	Fan Powe	07 er Pressure Drop A	08 djustment - Table 1	40.4-B	01 Fan Name or		02
Item Tag	Fan Function Supply	Qty Maximum	(CFM)	, , , , , , , , , , , , , , , , , , , ,	HP Uni	t <sup>2</sup>	Design HP 0.86		Device NA	Design Airflow thr Device (CFM)		Item Tag  SF		Function Supply
	em Design Supply Airflow (CFM):		000		ystem Desi (B)HP:		0.86	Pov	um System Fan wer (B)HP:	1.88			em Design S	Supply Airflow (CFI
	Computer room economizers mu I for HP must be consistent for all			<u>a)</u> ana wiii	pe aocume	entea on th	e NRCC-PRC-E doci	ument.				System Name: 01	AC-4E	E Econom
												Fan Name or Item Tag	Fan	Function
												SF Total Syste		Supply Supply Airflow (CFI
												System Name:	AC-5E	
												Fan Name or	Fan	02 Function
												SF	ç	Supply
												Total Syste	em Design S	Supply Airflow (CFI
Registration Nu	umber:			Registr	ation Date/T	Time:			Regis	stration Provider: Ener	rgysoft	Registration Nu	mber:	
CA Building En	ergy Efficiency Standards - 2019 Non	residential Complian	ce		Version: 203 a Version: re				Report Gene	erated: 2020-12-23 15	:53:25	CA Building Ene	rgy Efficienc	y Standards - 2019 N
rate of califor <b>Nechanic</b> a	<sub>NIA</sub> al Systems											state of califori		ns
RCC-MCH-E	COMPLIANCE				Report Pa	ge:			CALIFOR	NIA ENERGY COMM NRCC (Page 2	-МСН-Е	NRCC-MCH-E  CERTIFICATE OF  Project Name:	COMPLIANC	E
roject Address	:				Date Prep	ared:				12/2	23/2020	Project Address:		
. VENTILATION	ON AND INDOOR AIR QUALIT	entilation Required			Berni		Vent per <u>§120.1(c)</u>		DCV or Sensor C	ontrols per §120.1(	d)3	I. SYSTEM CO		Single zone <
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		esign		, and <u>§120.1(e)3</u> <sup>6</sup>		AC-4	1E	Single zone <
Zone 1A	Lecture/ postsecondary classro	oom 2823			1072.7	0	0		DCV Occ Sensor	Provided p §120.1(d) NA: Not requ	4	AC-S		Single zone <:
17	Total System Required Min OA C	FM	05		1430	18	Ventilation f	for this Sys	stem Complies?	space type Yes	e		Gravity gas v	wall heaters, gravi
System Name	AC-2A		ign OA CFM	1430		n Design	0	A	Provided per	120.1(c) and §141.0 §120.1(c) (NR and		*Notes: Contro EXCEPTION 1 to		require a note in th
08	09 Mechanical V	10 entilation Required	11	12	13	14	15 Vent per <u>§120.1(c)</u>	)4	Hot	el/Motel)) 16		This table is us	ed to demor	DOOR AIR QUAL nstrate compliance ns, only ventialtion
Space Name ot item Tag	Occupancy Type <sup>4</sup>		# of Shower heads/ toilets		Required Min OA CFM		Provided per De			ontrols per <u>§120.1(</u> , and <u>§120.1(e)3</u> <sup>6</sup>	<u>d)3</u> ,		ntion rates a	Check the box i
Zone 2A	Lecture/ postsecondary classro		tollets		1072.7	0	0		DCV	Provided p §120.1(d)	4	02		Check this box i  Check this box i  Check the box i
	,				1430	18	Ventilation f	for this Sys	Occ Sensor	NA: Not requ space typ		Nonresidentia	and Hotel/	/ Motel Ventilation
17	Total System Required Min OA C	FIVI			1 - 100					07				AC-1A
	04		05 ign OA CFM	1104		n Design	06	А		120.1(c) and §141.0		System Name		
ystem Name  08  Registration No CA Building En  ATE OF CALIFOR <b>1echanic</b> RCC-MCF-E	04  AC-1B  09  umber: ergy Efficiency Standards - 2019 Non	System Des Airf 10	ign OA CFM low <sup>1</sup>	Report	System	14 14 Time:	0 15	A	Provided per Hot Regis Report Gend		rgysoft 5:53:25	Registration Nu CA Building Ene STATE OF CALIFORM Mechanica NRCC-MCH-E	ergy Efficiency NIA NI System	09 y Standards - 2019 N <b>ns</b>
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Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Provider: Energysoft

Report Generated: 2020-12-23 15:53:25

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Report Version: 2019.1.003

Schema Version: rev 20200601

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Provider: Energysoft

Report Generated: 2020-12-23 15:53:25

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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ject Address					Date Prepared	:		12/23/2020	Project Address:					repared:			12/23/2020
System Name:		omizer:1	Fixed Enthalpy	Econor Contr	ols:	ned per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume	System Name:	AC-4D Economizers		Fixed Enthalpy	Economizer Controls:		(m)	System Fan Type:	Constant Volume
n Name or Item Tag	02 Fan Function	03 Qty	04  Maximum Design Suppl (CFM)	ly Airflow	05 HP Unit <sup>2</sup>	06 Design HP	Fan Power Pressure Dro Device	p Adjustment - Table 140.4-B Design Airflow through	Fan Name or Item Tag	02 Fan Function	03 Qty	04  Maximum Design Supply (CFM)	Airflow	Unit <sup>2</sup>	06 Fan Design HP	07 Power Pressure Drop A Device	08 Adjustment - Table 140.4-B Design Airflow through
SF Total Syst	Supply em Design Supply Airflow (G	1 1 TEM):	2000	Total S	BHP System Design	0.86	NA Maximum System Far	Device (CFM)  NA  1.88	SF Total Syste	Supply m Design Supply Airflow (CFI	1 M)·	7000	Total System [	HP Design	4.37 Ma	NA aximum System Fan	Device (CFM)  NA  6.58
System Name:		omizer:1	Fixed Enthalpy	Econor Contr		ned per <u>§140.4(e)</u> and (m)	Power (B)HP:  System Fan Type:	Constant Volume	System Name:	AC-1E Econom		Fixed Enthalpy	(B)HP: Economizer Controls:		r §140.4(e) and	Power (B)HP: System Fan Type:	Constant Volume
n Name or	02 Fan Function	03 Qty	04  Maximum Design Suppl	ly Airflow	05 HP Unit <sup>2</sup>	06 Design HP		p Adjustment - Table 140.4-B  Design Airflow through	01 Fan Name or	02 Fan Function	03 Qty	04  Maximum Design Supply	Airflow	Unit <sup>2</sup>	06 Fan Design HP		08 Adjustment - Table 140.4-B Desigr Airflow through
SF	Supply	1	1CFM) 2000	Total	BHP System Design	0.86	NA  Maximum System Far	Device (CFM)	SF	Supply	1	3400	Total System [	HP Design	1.35	NA aximum System Fan	Device (CFM)
Total Syst  System Name:	em Design Supply Airflow (CA)  AC-5E Econo	omizer:1	2000 Fixed Enthalpy	Econor	(B)HP: Design	0.86 ned per <u>§140.4(e)</u> and (m)	Power (B)HP:  System Fan Type:	1.88  Constant Volume	Total Syste  System Name:	m Design Supply Airflow (CFI  AC-2E Econon		3400 Fixed Enthalpy	(B)HP:	Designed pe	r §140.4(e) and	Power (B)HP:  System Fan Type:	3.2  Constant Volume
01 n Name or	02 Fan Function	03	04 Maximum Design Suppl		05  HP Unit <sup>2</sup>	06 Design HP	07 Fan Power Pressure Dro	p Adjustment - Table 140.4-B	01 Fan Name or	02 Fan Function	03 Qty	04  Maximum Design Supply	Airflow	Unit <sup>2</sup>	06	07 Power Pressure Drop A	08 Adjustment - Table 140.4-B
Item Tag SF	Supply	Qty 1	(CFM) 2000		ВНР	0.86	Device NA	Design Airflow through Device (CFM)  NA	Item Tag SF	Supply	1	ICFM) 3400	В	HP	1.35	Device NA	Desigr Airflow through Device (CFM)
Total Syst	em Design Supply Airflow (C	CFM):	2000	Total S	System Design (B)HP:	0.86	Maximum System Far Power (B)HP:	1.88	Total Syste	m Design Supply Airflow (CFI	M):	3400	Total System [ (B)HP:	Design	1.35 <b>M</b>	aximum System Fan Power (B)HP:	3.2
TE OF CALIFOR	ergy Efficiency Standards - 2019	) Nonresider	ntial Compliance	Repor	ration Date/Time: t Version: 2019.1.0 na Version: rev 202	003		degistration Provider: Energysoft Generated: 2020-12-23 15:53:25	Registration Nur  CA Building Ener  STATE OF CALIFORN  Mechanica	gy Efficiency Standards - 2019 N	Vonresident	tial Compliance	Registration Da Report Version Schema Version	2019.1.003		_	stration Provider: Energysoft erated: 2020-12-23 15:53:25
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oject Address					Date Prepared	:		12/23/2020	Project Address:	NTDOIS				repared:			12/23/2020
AC-		<= 25,000	ft <sup>2</sup> Setback	S	witch	r Timer EMC	CS Included	Provided	I. SYSTEM CON	T	= 25,000 f	ft <sup>2</sup> Setback	Auto Timer Switch	4 Hour Time	r EMCS	Included	Provided
AC-		,	_	S Aut	o Timer	r Timer EMC		Provided Provided	AC-5				Auto Timer Switch Auto Timer Switch	4 Hour Time 4 Hour Time		Included Included	Provided Provided
AC-		,		Aut S	to Timer 4 Hour	r Timer EMC		Provided od stoves are not required to	AC-7				Auto Timer Switch Auto Timer	4 Hour Time		Included	Provided
ve setback t	hermostats. ols with a * require a note in								AC-8 AC-9				Switch  Auto Timer Switch	4 Hour Time 4 Hour Time		Included	Provided Provided
	ON AND INDOOR AIR QU		andatory ventilation requi	irements in	§120.1 and §12	0.2(e)3B for all nonresi	idential, high-rise resident	ial and hotel/motel	AC-10		-		Auto Timer Switch Auto Timer	4 Hour Time 4 Hour Time		Included	Provided Provided
•	or alterations, only ventialti ation rates and airflows may Check the bo	be shown	•	ations can L	be presented in a	a spreadsheet.		•	AC-12		· ·		Switch Auto Timer Switch	4 Hour Time		Included	Provided
02	☐ Check this bo	x if the pro	ject included Nonresident ject included new or alter ject is using natural ventila	red high-rise	e residential dwe		o meet required ventilation	on rates per <u>§120.1(c)2</u> .	AC-1		<u> </u>		Auto Timer Switch Auto Timer	4 Hour Time 4 Hour Time		Included Included	Provided Provided
onresidentia	l and Hotel/ Motel Ventilat 04	ion System	05	ī		06	Air Filtration pe	07 er §120.1(c) and §141.0(b)2 <sup>2</sup>	AC-3	D Single zone <	= 25,000 f	ft <sup>2</sup> Setback	Switch Auto Timer Switch	4 Hour Time	r EMCS	Included	Provided
stem Name	AC-1A 09		System Design OA CFM Airflow <sup>1</sup> 10 11	1430	System Des Transfer Air		Provided	per <u>§120.1(c)</u> (NR and Hotel/Motel))  16	AC-4		·		Auto Timer Switch Auto Timer Switch	4 Hour Time 4 Hour Time		Included Included	Provided Provided
A Building En	ımber: ergy Efficiency Standards - 2019	) Nonresider	ntial Compliance	Repor	ration Date/Time: t Version: 2019.1.0 na Version: rev 202	003		legistration Provider: Energysoft Generated: 2020-12-23 15:53:25	AC-2 Registration Nur CA Building Ener	E Single zone < nber:	Vonresident	tial Compliance	Registration Da Report Version Schema Version	2019.1.003	1	_	stration Provider: Energysoft erated: 2020-12-23 15:53:25
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TE OF CALIFOR  CC-MCH-E  RTIFICATE OF  Dject Name:  Dject Address  VENTILATIO  Dace Name	NIA Al Systems  COMPLIANCE  DN AND INDOOR AIR QUA	<b>ALITY</b>  ca  Ventilat	tion Required per <u>§120.1(a</u> Conditioned # of Shower Floor Area heads/	Report Schem	Report Page: Date Prepared  Required Min OA CFM  Record Record Record Min OA CFM	Exh. Vent per <u>§120.1(</u>	CALIF	ORNIA ENERGY COMM SSION  NRCC-MCH-E  (Page 26 of 57)  12/23/2020  or Controls per §120.1(d)3, d)5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required	Registration Nur CA Building Ener STATE OF CALIFORN Mechanica NRCC-MCH-E CERTIFICATE OF C Project Name: Project Address:  J. VENTILATIO Space Name	nber:  Igy Efficiency Standards - 2019 N  I Systems  COMPLIANCE  N AND INDOOR AIR QUAL  Mechanica	L <b>ITY</b>	ion Required per <u>\$120.1(c)</u> . Conditioned # of Shower Floor Area heads/	Registration Da Report Version Schema Version  Report  Report  Date I	2019.1.003 h: rev 20200601  t Page: Prepared:  Exh. red OA Min CFM	Provided per Design	CALIFOR  DCV or Sensor C	RNIA ENERGY COMM SSION
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Page 17 June 18 June 1	NIA Al Systems  COMPLIANCE  :  DN AND INDOOR AIR QUA  Mechani  Occupancy Type <sup>4</sup> Lecture/ postsecondary c  Total System Required Min  04  AC-6B  09  Mechani	ALITY   ca  Ventilate  assroom  OA CFM	tion Required per \$120.1(c) Conditioned # of Shower heads/ toilets  1700  05  System Design OA CFM Airflow¹  10  11 tion Required per \$120.1(c) Conditioned # of Shower	Report Scheme sc	Report Page: Date Prepared  Required Min OA CFM  646  System Des Transfer Air of 13  Required Page:	Exh. Vent per §120.1( quired Provided per CFM  0 0  18 Ventilation 06  iign 0	CALIF  CALIF  CALIF  COMPANY	CORNIA ENERGY COMMISSION  NRCC-MCH-E (Page 26 of 57)  12/23/2020  Dr Controls per §120.1(d)3, d)5, and §120.1(e)3 6  Provided per §120.1(d)4  NA: Not required space type  Yes  07  Pres §120.1(c) and §141.0(b)2 2  Per §120.1(c) (NR and Hotel/Motel))  16  Procontrols per §120.1(d)3,	Registration Nur CA Building Ener STATE OF CALIFORN Mechanica NRCC-MCH-E CERTIFICATE OF C Project Name: Project Address:  J. VENTILATIO  Space Name ot item Tag  Zone 3B  17  System Name  08  Space Name	IA I Systems  COMPLIANCE  N AND INDOOR AIR QUAL  Mechanica  Occupancy Type <sup>4</sup> Lecture/ postsecondary class  Fotal System Required Min Or  04  AC-4B  09  Mechanica	LITY  SSTOOM  A CFM	ion Required per §120.1(c).  Conditioned # of Shower heads/ toilets  1420  05  System Design OA CFM Airflow¹  10  11  ion Required per §120.1(c).  Conditioned # of Shower	Registration Da Report Version Schema Version Schema Version  Report Date I  Report Date I  From Part I  Require Min CFN  539  719  789  789  Sys Tran  12  13  # of Require R	2019.1.003 h: rev 20200601  t Page: Prepared:  Exh. Required Min CFM  6 0  18  tem Design Sfer Air CFM  14 Exh. Red Required Required Min Sfer Air CFM	Provided per Design CFM  0  Ventilation for th 06  0  15  Vent per §120.1(c)4	DCV or Sensor Cost System Complies?  Air Filtration per Sensor Cost Provided per Hotology Cock Sensor Complies Provided per Hotology Cock Sensor Sensor Cock Sensor Sensor Cock Sensor Cock Sensor Se	RNIA ENERGY COMM SSION    NRCC-MCH-E     (Page 25 of 57)     12/23/2020
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 04-119844 INC:

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DATE: 12/22/2021

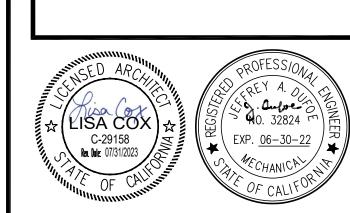


SOUTHERN CALIFORNIA

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THOMPSON MIDDLE SCHOOL
HVAC REPLACEMENT
MURRIETA VALLEY UNIFIED SCHOOL DISTRICT
24040 HAYES AVE
MURRIETA, CA 92562





NO DATE BY DESCRIPTION

REVISIONS

REVISIONS

DRAWN: RV CHECKED: JD

DATE: 03/10/2021 SCALE:

DATE: 03/10/2021 SCALE:
PROJECT NUMBER: 1726200

MECHANICAL TITLE 24 CALCULATIONS

Registration Provider: Energysoft

Report Generated: 2020-12-23 15:53:25

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

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	ON AND INDOOR AIR QUALITY								, , , , ,	J. VENTILATION	I AND INDOOR	AIR OUALITY								, ,
Space Name ot item Tag		ilation Required pe Conditioned # Floor Area	of Shower #	Requirements of Min O	ed Required	Vent per <u>§120.1(c)4</u> Provided per Desi CFM	~~ I	ensor Controls per <u>§12</u> 20.1(d)5, and <u>§120.1(e</u> )		Space Name ot item Tag		Mechanica  Ventila	Conditioned Floor Area	# of Shower heads/	# of R	IIII OA IM		nt per <u>§120.1(c)4</u> Provided per Design  CFM		ontrols per <u>§120.1(d)3</u> , and <u>§120.1(e)3</u> <sup>6</sup>
Zone 2E	Lecture/ postsecondary classroon		toilets	912	0	0	Occ Se	NA: Not space	ided per 0.1(d)4 t required ce type			ondary classroom	(ft²) 3390	toilets		1288.2	0	0	DCV Occ Sensor	Provided per \$120.1(d)4 NA: Not require space type
System Name	Total System Required Min OA CFN 04 AC-3E	System Design Airflow	Ι Δ			Ventilation for 06		07  n per <u>§120.1(c)</u> and <u>§</u> ded per <u>§120.1(c)</u> (NR  Hotel/Motel))		17 To	otal System Requi 04 AC	red Min OA CFM	System Desi Airfl		1013	System De	_	Ventilation for this	Air Filtration per §1  Provided per	Yes 07 120.1(c) and §141.0(b) §120.1(c) (NR and el/Motel))
08 Space Name ot item Tag	ງ9 Mechanical Ven Occupancy Type <sup>4</sup>	10  ilation Required pe Conditioned # Floor Area	er <u>§120.1(c)3</u> <sup>3</sup> of Shower #	12 13  For of Min O OFFM	ed Required	15 Vent per <u>§120.1(c)4</u> Provided per Desi CFM	~ n	16 ensor Controls per §12.0.1(d)5, and §120.1(e)		Space Name ot item Tag	0 Occupar	Mechanica  Ventila	Conditioned Floor Area	# of Shower heads/	# of	equired Re		15 nt per §120.1(c)4 Provided per Design CFM	DCV or Sensor Co	16  ontrols per <u>§120.1(d)3</u> and <u>§120.1(e)3</u> <sup>6</sup>
Zone 3E	Lecture/ postsecondary classroon		toilets	342	0	0	Occ Se	NA: Not space	ided per 0.1(d)4 t required ce type			ondary classroom	(ft²) 2400	toilets		912	0	0	DCV Occ Sensor	Provided per §120.1(d)4  NA: Not require space type
System Name	Total System Required Min OA CFN 04 AC-4E	System Design Airflov	. 1 4	י אל		Ventilation for 06		07 n per <u>§120.1(c)</u> and <u>§</u> ded per <u>§120.1(c)</u> (NR Hotel/Motel))		System Name	04 AC	red Min OA CFM	System Desi Airfl	_	1012	System De		Ventilation for this  6	Air Filtration per §1  Provided per	Yes 07 120.1(c) and §141.0(b) §120.1(c) (NR and el/Motel))
08  Registration Num	09 mber:	10		12 13 Registration Date	e/Time:	15		16 Registration Provider	er: Energysoft	08  Registration Num	0 ber:	9	10	11	12 Registration	13 n Date/Time	14 e	15	Regis	16 tration Provider: Energys
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Project Address:				Date Pi	repared:				12/23/2020	Project Address:					<u> </u> [	ate Prepare	d:			12/23/2
	ION (DUCTWORK and PIPING) the cuestions below apply to the No The scope of the	ollowing duct syste he project includes		AC-1B ms serving hea		t leakage testing trig	gered for these sys	stems? N	No		he questions belo	and PIPING) w apply to the foll The scope of the			AC-1A stems servir	g healthcar		eakage testing triggere	ed for these systems?	No
12	Yes The space cor	ditioning system se	erves less than 5	,000 ft <sup>2</sup> of con	ditioned floor					12	Yes Yes	The space condit	ioning system	serves less tha	n 5,000 ft² d	f condition	ed floor ar			
14	No The combined	Outdoors  In a space directed requirements of	tly under a roof	that has a U-fa	actor greater t	nn 25% of the total so han the u-factor of t or openings to the ou	he ceiling, or if the	e roof does not meet t	the	14	No No	_	Outdoors In a space dire	ectly under a r of <u>§140.3(a)1</u>	oof that has B or if the ro	a U-factor g	greater tha	25% of the total surfa an the u-factor of the copenings to the outsic	eiling, or if the roof d	oes not meet the
15 16	The scope of tand diagnosti	he project includes he project includes	an existing duct nce with proced	system that is ures in the Ref	s documented ference Nonre	sidential Appendix N	usly sealed as con	asbestos. nfirmed through field v	verification	15 16 17	Yes	The scope of the	project includesting in accord	es extending a es an existing lance with pro	n existing duduct system cedures in the	hat is docu e Referenc	mented to e Nonresio	onstructed, insulated of have been previously dential Appendix NA2.		s. through field verificati
11 12 13	Yes Duct system p Yes The space cor	he project includes rovides conditioned ditioning system se	only duct system d air to an occup erves less than 5	piable space fo ,000 ft <sup>2</sup> of con	althcare facilit r a constant v ditioned floor	olume, single zone, s area.	pace-conditioning	g system.	No	11 12 13	No Yes Yes	The space condit	project includ vides condition ioning system	es only duct sy led air to an or serves less tha	ccupiable span 5,000 ft <sup>2</sup> c	ce for a cor	re facilities rstant volu ed floor ar	ume, single zone, spac rea.	e-conditioning system	
14	No The combined	Outdoors In a space direcrequirements o	tly under a roof	that has a U-fa	actor greater t	n 25% of the total so han the u-factor of t or openings to the ou	he ceiling, or if the	e roof does not meet t	the	14	No No		Outdoors In a space dire	ectly under a r of <u>§140.3(a)1</u>	oof that has B or if the ro	a U-factor g	greater tha	25% of the total surfa an the u-factor of the o openings to the outsion	eiling, or if the roof d	oes not meet the
15 16	The scope of tand diagnosti	he project includes testing in accorda	s extending an ex s an existing duct nce with proced	system that is ures in the Ref	s documented ference Nonre	sidential Appendix N	usly sealed as con	asbestos. nfirmed through field v	verification	15 16		The scope of the The scope of the and diagnostic te	project includ	es extending a es an existing lance with pro	n existing du duct system cedures in tl	hat is docu e Referenc	mented to e Nonresio	onstructed, insulated on the previously dential Appendix NA2.		s. through field verificati
17 Registration Nu		nall be sealed in acc		Registration Dat		e		Registration Provider		17 Registration Num	Yes ber:	Duct system shal	r be sealed in a	acordance with		n Date/Time			Regis	tration Provider: Energys
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17 Tota	04  AC-4D	System Desig	. 1 1/18		em Design fer Air CFM	Ventilation fo		iltration per §12  Provided per §	Yes 07 20.1(c) and §141.0(b)2 <sup>2</sup> §120.1(c) (NR and el/Motel))	System Name	04	quired Min OA CFM		05 ign OA CFM low <sup>1</sup>	912	912 System Transfer	Design Air CFM	Ventilati 06		Air Filtration per §12  Provided per §	Yes 07 0.1(c) and §141.0(b)2 120.1(c) (NR and /Motel))
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CA Building Energy	Efficiency Standards - 2019 Nonreside	ntial Compliance		ort Version: 2 ema Version:	2019.1.003 rev 20200601			Report Gener	rated: 2020-12-23 15:53:25	STATE OF CALIFOR	RNIA	dards - 2019 Nonresio	dential Compliand	ce		Version: 201 a Version: re				Report Genera	ited: 2020-12-23 15:53:2
Mechanical S RCC-MCH-E CERTIFICATE OF COM Project Name:				Report	Page:			CALIFORN	IIA ENERGY COMM SSION  NRCC-MCH-E  (Page 38 of 57)	Mechanic  NRCC-MCH-E  CERTIFICATE OI  Project Name:	al Systems					Report Pa	ge:			CALIFORNI	A ENERGY COMM SSIC NRCC-MCF (Page 37 of 5
Project Address:	AND INDOOR AIR QUALITY			Date Pr	epared:				12/23/2020	Project Address	on and indoo	R AIR OUALITY				Date Prep					12/23/20
Space Name ot item Tag	Mechanica Ventila  Occupancy Type <sup>4</sup>	tion Required p Conditioned # Floor Area	of Shower # of	Require Min O	ed Required	Vent per <u>§120.1(c)</u> Provided per De CFM	DO		ontrols per <u>§120.1(d)3</u> , and <u>§120.1(e)3</u> <sup>6</sup>	Space Name ot item Tag		Mechanica Venti	lation Required  Conditioned  Floor Area		# of	Required Min OA	Exh. Required Min CFM	Vent per <u>§120.</u> Provided pe	er Design		ntrols per <u>§120.1(d)3</u> , and <u>§120.1(e)3</u> <sup>6</sup>
Zone 6E Le	ecture/ postsecondary classroom	(ft²) 900	toilets peopl	342	0	0		DCV Occ Sensor	Provided per \$120.1(d)4  NA: Not required space type	Zone 4E	Lecture/ postse	econdary classroom	(ft²) 900	toilets	people <sup>5</sup>	342	0	0		DCV Occ Sensor	Provided per §120.1(d)4  NA: Not required space type
FOOTNOTES: Syst Air filtration requ	al System Required Min OA CFM em CFM should include both mech irements apply to the following th providing outside air to occupiab piable space.	ree system type.	s per <u>§120.1(a)1A</u> : s	space condit	tem tioning systen		supply air to	o occupiable spa		System Name	04	quired Min OA CFM AC-5E	System Des	<u> </u>	456	456 System Transfer	Design Air CFM	Ventilati 06 0	on for this S	Air Filtration per §12  Provided per §	Yes 07 0.1(c) and §141.0(b)2 120.1(c) (NR and /Motel))
See Standards Tai For lecture halls v §120.2(e)3 requi	ical Code may have more stringen bles 120.1-A and 120.1-B. vith fixed seating, the expected nu res systems serving rooms that are	mbe <sup>r</sup> of occupa e required by <u>§1</u>	nts shall be snall be 30.1(c) to have ligh	determined	l in accordanc	ee with the Californi ontrols to also have	ia Building Co e occupancy :	sensing zone co	_	08 Space Name ot item Tag	Occup	09  Mechanical Venti  ancy Type <sup>4</sup>	Conditioned Floor Area	# of Shower heads/	12 )3 3 # of people <sup>5</sup>	13 Required Min OA	Exh.  Required Min CFM	15 Vent per <u>§120.</u> Provided pe	1(c)4 er Design	DCV or Sensor Cor	16 atrols per <u>§120.1(d)3</u> , and <u>§120.1(e)3</u> <sup>6</sup>
nd open areas in	s which require lighting occupancy warehouses, library book stack ais  X CONTROLS  not apply to this project.				•				ooms, restrooms, aisles	Zone 5E	Lecture/ postse	econdary classroom	900	toilets	Pooling	342	0	0		DCV Occ Sensor	Provided per §120.1(d)4  NA: Not required space type
	(DUCTWORK and PIPING) o show compliance with mandato	ry pipe insulatio	n requirements four	nd in <u>§120.3</u>	and prescrip	otive requirements f	found in <u>§14</u>	<u>0.4(I)</u> for duct le	eakage testing.	17 System Name	04	quired Min OA CFM AC-6E	System Des		456	456 System	18  Design Air CFM	Ventilati 06	on for this S	Air Filtration per §12	Yes 07 0.1(c) and §141.0(b)2 120.1(c) (NR and
										08		09	Airf	11	12	13	14	15			/Motel)) 16
Registration Numbe	er: Efficiency Standards - 2019 Nonreside	ntial Compliance	Rep	istration Date ort Version: 2 ema Version:				J	ration Provider: Energysoft rated: 2020-12-23 15:53:25	Registration N CA Building En		dards - 2019 Nonresio	dential Compliand	ee	Report	ation Date/T Version: 201 a Version: re	19.1.003				ation Provider: Energyso ited: 2020-12-23 15:53:2
TATE OF CALIFORNIA  Mechanical S  IRCC-MCH-E  CERTIFICATE OF COM  Project Name:				Report	Page:			CALIFORN	IIA ENERGY COMM SSION  NRCC-MCH-E  (Page 42 of 57)	STATE OF CALIFOR  Mechanic  NRCC-MCH-E  CERTIFICATE OI  Project Name:	al Systems					Report Pa	ge:			CALIFORNI	A ENERGY COMM SSIC NRCC-MCF (Page 41 of 5
Project Address:	(DUCTWORK and PIPING)				epared:				12/23/2020	Project Address	s: FION (DUCTWOF	PK and DIDING)				Date Prep					12/23/20
	e questions below apply to the foll  No  The scope of the	project include	ems:  s only duct systems ad air to an occupial		Ithcare facilit				No		<u>-</u>	elow apply to the fo	ie project includ	des only duct		ving health	care facilit	ies		for these systems? -conditioning system.	No
13 14	Yes The space condi	ioning system s	erves less than 5,00 e ducts in the follow	0 ft <sup>2</sup> of cond	ditioned floor	area.				13 14	Yes No	The space cond	litioning system	serves less t	han 5,000 ft	<sup>2</sup> of condit	ioned floor	area.		e area of the entire du	ct system:
		requirements of In an unconditi	orly under a roof that of §140.3(a)13 or if oned crawl space										requirements	s of <u>§140.3(a)</u> itioned crawl	1B or if the space					iling, or if the roof doe / unconditioned space	
15 16	The scope of the	project include project include	citioned spaces s extending an exist s an existing duct sy ance with procedure	stem that is	documented	to have been prev	viously sealed		s. chrough field verification	15 16			ne project includ ne project includ	des an existin	an existing g duct syste	m that is d	ocumented	to have been	previously s	sealed with askestos. sealed as confirmed th	
17 The answers to the 11	Yes Duct system sha e questions below apply to the foll	l be sealed in aco	cordance with the C	alifornia Me AC-6B	echanical Cod Duc	e t leakage testing tri		hese systems?	No	17 The answers t	Yes to the questions be	Duct system she low apply to the fo	all be sealed in llowing duct sy	acordance wi	th the Califo	ornia Mech 1B	anical Cod	e t leakage testir		for these systems?	No
12 13 14	Yes Duct system pro Yes The space condit	vides conditione ioning system s	ed air to an occupial erves less than 5,00 e ducts in the follow	ole space for O ft <sup>2</sup> of cond	r a constant v ditioned floor	olume, single zone, area.				12 13 14	Yes Yes No	Duct system pr	ovides conditio litioning system	ned air to an serves less t	occupiable : han 5,000 ft	space for a	constant v	olume, single a		conditioning system. e area of the entire du	ct system:
			ctly under a roof that of §140.3(a)13 or if								,									iling, or if the roof doo / unconditioned space	
15		In other uncon project include	oned crawl space citioned spaces s extending an exist							15			ie project includ	oncitioned sp des extending	aces an existing					sealed with askestos.	
16 17	and diagnostic to	esting in accorda	s an existing duct sy ance with procedure cordance with the C	s in the Ref	erence Nonre	esidential Appendix		d as confirmed t	through field verification	16 17	Yes	and diagnostic  Duct system sh	testing in accor	dance with p	rocedures ir	the Refer	ence Nonre	sidential Appe		sealed as confirmed th	nrough field verificatio
Registration Numbe	er: Efficiency Standards - 2019 Nonreside	ntial Compliance	Rep	istration Date ort Version: 2 ema Version:				_	ration Provider: Energysoft rated: 2020-12-23 15:53:25	Registration N CA Building En		dards - 2019 Nonresio	dential Compliand	ce	Report	ation Date/T Version: 201 a Version: re	19.1.003				ation Provider: Energyso Ited: 2020-12-23 15:53:2
TATE OF CALIFORNIA  Mechanical S  IRCC-MCH-E  CERTIFICATE OF COM								CALIFORN	IIA ENERGY COMM SSION  NRCC-MCH-E	NRCC-MCH-E  CERTIFICATE OI	al Systems									CALIFORNI	A ENERGY COMM SSII
Project Name: Project Address:				Report Date Pr					(Page 46 of 57) 12/23/2020	Project Name: Project Address						Report Pa Date Prep					(Page 45 of 12/23/20
		project include	ems:  s only duct systems d air to an occupial		Ithcare facilit			·	No		o the questions be No Yes	elow apply to the fo	ie project includ	des only duct		ving health	care facilit	ies		for these systems?	No
13 14	Yes The space condi	ioning system s	erves less than 5,00	0 ft <sup>2</sup> of cond	ditioned floor	area.				13	Yes No	The space cond	litioning system	serves less t	han 5,000 ft	<sup>2</sup> of condit	ioned floor	area.		e area of the entire du	ct system:
		In a space directed in a s	orly under a roof that of §140.3(a)13 or if oned crawl soace		_								In a space dir	s of §140.3(a)	1B or if the					iling, or if the roof doo / unconditioned space	
15 16	The scope of the and diagnostic to	project include project include esting in accorda	nce with procedure	stem that is s in the Ref	documented erence Nonre	l to have been prev esidential Appendix	iously sealed		s. chrough field verification	15 16		The scope of the and diagnostic	ne project includ testing in accor	des extending des an existing dance with p	an existing g duct syste rocedures ir	m that is do n the Refero	ocumented ence Nonre	to have been sidential Appe	previously s	sealed with asbestos. sealed as confirmed th	nrough field verificatio
11	e questions below apply to the foll  No  The scope of the	owing duct syst project include	s only duct systems	AC-7C serving hea	Duc	t leakage testing tri		,	No	11	No	Duct system she low apply to the for The scope of the Duct system pro	ollowing duct sy ne project includ	stems: des only duct	AC-S systems ser	SC ving health	Duc	t leakage testir ies	0 00	for these systems?	No
12 13 14	Yes The space condition  No The combined states	ioning system s	ed air to an occupial erves less than 5,00 e ducts in the follov	0 ft <sup>2</sup> of cond	ditioned floor	area.				12 13 14	Yes Yes No	The space cond	litioning system surface area of	serves less t	han 5,000 ft	<sup>2</sup> of condit	ioned floor	area.		conditioning system. e area of the entire du	ct system:
		requirements of	cily under a roof that f §140.3(a)13 or if oned crawl space											s of §140.3(a)	1B or if the					iling, or if the roof doo / unconditioned space	
15 16	The scope of the and diagnostic to	project include project include esting in accorda	ance with procedure	stem that is s in the Ref	documented erence Nonre	l to have been prev esidential Appendix	iously sealed		s. through field verification	15 16		The scope of the and diagnostic	ne project includ testing in accor	des extending des an existing dance with p	an existing g duct syste rocedures ir	m that is do	ocumented ence Nonre	to have been sidential Appe	previously s	sealed with askestos. sealed as confirmed th	nrough field verificatio
17	Yes Duct system sha	i be sealed in ac	cordance with the C	amornia Me	crianical Cod	e				17	Yes	Duct system sh	an be sealed in	acordance wi	កោ tne Calif	mia Mech הוויכ	anical Cod	e			

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Provider: Energysoft

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Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Mary	ICALE UF	COMPLIANCE								CALIFORNI	NRCC-MC
The content of the							+ -				(Page 33 of
Section 1. Control 1.	VENTILATIO	ON AND INDOOR	AIR QUALITY								
200   100	-	Occupa		Conditioned Floor Area	# of Shower heads/	# of	Min OA	Required	Provided per Design		
The content and the content	Zone 12C	Lecture/ postsec	condary classroom	(12)	tollets			0	0		Provided per §120.1(d)4 NA: Not required
Process   Proc	17		ired Min OA CFM		05		1089	18		<del>' ' '</del>	Yes
Mathematical Section   1	/stem Name	AC	C-1D	,	~	912			0	Provided per §	120.1(c) (NR and
March	08						13				
March   Proportionary proportionary   Propo	•	Occupa	ncy Type <sup>4</sup>	Floor Area	heads/	# OT	Min OA	Required	, ,	<u>§120.1(d)5,</u> a	
The continue in the inference of the Continue in the continu	Zone 1D	Lecture/ postsed	condary classroom	1800			684	0	0		§120.1(d)4  NA: Not require space type
March or Marches   March or March   March or March   March or March or March   March or March   March or March   March or March	17		ired Min OA CFM		05		912	18			Yes
Supplement   Sup				Airfl	ow <sup>1</sup>		Transfer	Air CFM		Provided per <u>§</u> Hotel,	120.1[c) (NR and /Motel))
March   Marc	CA Building End ATE OF CALIFOR Iechanica CC-MCH-E	ergy Efficiency Standa INIA al Systems	ards - 2019 Nonreside	ntial Complianc	e	Report	Version: 20:	19.1.003		Report Genera	
Methodology   Property   Proper	oject Name:						+ -				(Page 37 of
Continue	VENTILATIO	ON AND INDOOR									
According to Section   S	-	Occupa		Conditioned Floor Area	# of Shower heads/	# of	Min OA	Required	Provided per Design		
1.00   20 pt   1.00 pt   20 pt   1.00 pt   20 pt   2	Zone 4E	Lecture/ postsec	condary classroom		tollets			0	0		Provided per §120.1(d)4  NA: Not require
A C   September   A C   Sept	17		ired Min OA CFM		05		456	18			Yes
Mechanics   Vertical Continues of a 1920   March   Continues   March	stem Name	A	C-5E	,	•	456		_	0	Provided per §	120.1(c) (NR and
27   19   20   20   20   20   20   20   20   2	pace Name		Mechanical Ventila	tion Required Conditioned	per <u>§120.1(c</u> # of Shower	3 3 # of	Required	Exh. Required	Vent per <u>§120.1(c)4</u> Provided per Design	DCV or Sensor Con	trols per <u>§120.1(d)</u>
Control   System Regulated Mini CA CTM   Control   Con				(ft <sup>2</sup> )	1	people <sup>5</sup>	CFM			DCV	Provided per §120.1(d)4  NA: Not require
A Get Marine Lead of N September 1998 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	17		ired Min OA CFM		05		456	18	<u> </u>	System Complies?	space type Yes
Inclusions Number  The full days before yell-colory Standards 2019 Townsaderabliconplanes  Proportion of Standards (1990 Standards 2019 Townsaderabliconplanes)  The full days before yell-colory Standards 2019 Townsaderabliconplanes  Standards (1990 Standards 1990 Standards 2019 Townsaderabliconplanes)  The full days and the full days	/stem Name	AC	C-6E		_	456		_	0	Provided per §	120.1(c) (NR and
New York   Section   Sec	CA Building End  ATE OF CALIFOR  1echanica	ergy Efficiency Standa	ards - 2019 Nonreside	ntial Complianc	e	Report	Version: 20:	19.1.003		Report Genera	ted: 2020-12-23 15:53
DISTRIBUTION (DUCTWORK and PIPING)  The samewers to the cuestions below apply to the following duct systems:  AC 38	RTIFICATE OF	COMPLIANCE					Report Pa	ge:		CALIFORNI	A ENERGY COMMISS NRCC-M (Page 41 o
ne answers to the cuestions betwe apply to the following dust systems:    A			( and DIDING)				Date Prep	ared:			12/23/2
The space conditioning system serves less than 5,000 ft of conditioned floor area.  The somained surface area of the duts in the following locations is more than 25% of the total surface area of the entire duct system:	ne answers to	o the questions be	ow apply to the foll							d for these systems?	No
Outstoors    Outstoors	13	Yes	The space condit	ioning system	serves less tl	han 5,000 ft	<sup>2</sup> of condit	ioned floor	rarea.		et system:
The scope of the project includes a vesting duct system, which is constructed, insulated or sealed with askestos.  The scope of the project includes a vesting duct system that is documented to have been previously sealed as confirmed through field verificant diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  The scope of the project includes a vesting duct system that is documented to have been previously sealed as confirmed through field verificant of the scope of the project includes and with the California Mechanical Code  the answers to the cuestions below apply to the following duct systems:  AC-48  Duct leakage testing triggered for these systems?  No  The scope of the project includes and a root on accupiable space for a constant volume, single zone, space-conditioning system.  The space conditioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.  Undoors  Undoors  Undoors  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 slady 30 align B or if the morth fast fixed vents or openings to the outside/ unconditioned spaces  The scope of the project includes an existing duct system, which is constructed, insulated or sealed with askestos.  The scope of the project includes an existing duct system, which is constructed, insulated or sealed with askestos.  The scope of the project includes an existing duct system, which is constructed, insulated or sealed with askestos.  The scope of the project includes an existing duct system, which is constructed, insulated or sealed with askestos.  The scope of the project includes an existing duct system, which is constructed, insulated or sealed with askestos.  The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verificant and diagnostic testing in accordance with the California Mechanical Code  Registration Number:  Registrati	14	NO		Outdoors In a space dir requirements	ectly under a s of §140.3(a)	roof that h	as a U-fact	or greater t	than the u-factor of the ce	eiling, or if the roof doe	es not meet the
and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  17 Yes Duct system shall be sealed in acordance with the California Mechanical Code  18 answers to the cuestions be low apply to the following duct systems: AC-48 Duct leakage testing triggered for these systems? No  11 No The scope of the project includes only duct systems serving healthcare facilities  12 Yes Duct system provides conditioned air to an occupiable space for a corstant volume, single zone, space-conditioning systems:  13 Yes The space conditioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.  14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:    Outdoors	15		The scope of the	In other unco	ncitioned sp les extending	aces an existing			<u> </u>		
The scope of the project includes an existing duct system, which is constructed, insulated or sealed with askestos.  The scope of the project includes an existing duct system, which is constructed, insulated or sealed with askestos.  The scope of the project includes an existing duct system, which is constructed in Appendix NA2.  The space conditioning system serves less than 5,000 ft² of conditioned floor area.  It No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		Уес	and diagnostic te	esting in accor	dance with pi	rocedures ir	the Refer	ence Nonre	esidential Appendix NA2.	sealed as confirmed th	rough field verificat
13   Yes   The space conditioning system serves less than 5,000 ft² of conditioned floor area.   14	ne answers to	o the questions be	ow apply to the foll The scope of the	owirg duct sy: project includ	stems: les only duct	AC-4 systems ser	1B ving health	Duc	t leakage testing triggered ies		No
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   In an unconditioned spaces   In an unconditioned spaces   In the project includes extending an existing duct system, which is constructed, insulated or sealed with askestos.    16	13	Yes	The space condit	ioning system	serves less tl	han 5,000 ft	<sup>2</sup> of condit	ioned floor	r area.		ct system:
In other unconcitioned spaces  The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with askestos.  The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verificand diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NAZ.  17 Yes Duct system shall be sealed in acordance with the California Mechanical Code  Registration Number: Registration Date/Time: Registration Provider: Energistration Number: Registration Provider: Energistration Provi		1		Outdoors In a space dir requirements	ectly under a s of §140.3(a)	roof that h	as a U-fact	or greater	than the u-factor of the ce	eiling, or if the roof doe	es not meet the
and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  17 Yes Duct system shall be sealed in acordance with the California Mechanical Code  Registration Number: Registration Date/Time: Registration Provider: Ener  Registration Date/Time: Registration Provider: Ener  Registration Provider: Ener  Registration Date/Time: Registration Provider: Ener  Report Version: 2019.1.003 Report Generated: 2020-12-23 15 Schema Version: rev 20200601  REFORMIA ENERGY COMM  RECHANICA OF CALIFORNIA  RECHANICA OF CALIFORNIA  RECHANICA OF COMPLIANCE  REPORT Page: (Page 4 Oject Address: Date Prepared: 12/3  DISTRIBUTION (DUCTWORK and PIPING)  Reasswers to the questions below apply to the following duct systems: AC-4C Duct leakage testing triggered for these systems? No  11 No The scope of the project includes only duct systems serving healthcare facilities  12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  13 Yes The space conditioning system serves less than 5,000 ft <sup>2</sup> or conditioned floor area.  14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors			The scope of the	In other unco	encitioned sp les extending	aces an existing			· · · · · · · · · · · · · · · · · · ·		rough field verificat
Report Version: 2019.1.003 Report Generated: 2020-12-23 15 Schema Version: rev 20200601  RECOF CALIFORNIA RECHANICAL Systems  CC-MCH-E  CALIFORNIA ENERGY COMM RETIFICATE OF COMPLIANCE  Oject Name:  Oject Address:  Date Prepared:  Date Prepared:  12/2  DISTRIBUTION (DUCTWORK and PIPING)  Reasons a spelly to the following duct systems:  A C-4C  Duct leakage testing triggered for these systems?  No  11  No  The scope of the project includes only duct systems serving healthcare facilities  12  Yes  Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  13  Yes  The space conditioning system serves less than 5,000 ft² of conditioned floor area.  14  No  The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors	17					ith the Calif	ornia Mech	nanical Cod	• • • • • • • • • • • • • • • • • • • •		
CCAMCH-E  CCALIFORNIA ENERGY COMM  RECOPIT Page:  CPage 4			ards - 2019 Nonreside	ntial Complianc	e	Report	Version: 20:	19.1.003		_	
Report Page:   Date Prepared:   12/2	lechanica cc-мсн-е	al Systems								CALIFORNI	A ENERGY COMMISS NRCC-M
No The scope of the project includes only duct systems serving healthcare facilities  12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.  14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors		s:									(Page 45 o
12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.  14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:  Outdoors	ie answers to	o the questions be	ow apply to the foll							d for these systems?	No
Outdoors	12 13	Yes Yes	Duct system prov	vides condition ioning system	ned air to an serves less tl	occupiable han 5,000 ft	space for a <sup>2</sup> of condit	constant v	rolume, single zone, space r area.		
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	14	No		Outdoors							

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

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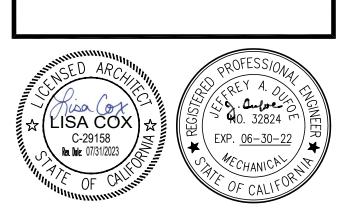
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**REVISIONS** DRAWN: RV

CHECKED: JD **DATE**: 03/10/2021 **SCALE**: PROJECT NUMBER: 1726200

**MECHANICAL** TITLE 24
CALCULATIONS

RCC-MCH-E ERTIFICATE O	E CORADIA	NCE					CALIFORNIA		RCC-MCH-E	NRCC-MCH		)P4~
roject Name:		NCE			Report Page:				ge 52 of 57)	Project N		JIVIPL
roject Addres					Date Prepared	l:			12/23/2020	Project A		
			nd PIPING)	owing duct systems:	AC-2E	Duct leakage te	sting triggered for these systems?	l No		L. DISTR		
11	to the ques			<u> </u>	uct systems serving healthcare		The string triggered for triese systems:	1 110			11	T
12		Yes	Duct system prov	vides conditioned air to	an occupiable space for a con	stant volume, sing	e zone, space-conditioning system.				12	Ť
13					ss than 5,000 ft <sup>2</sup> of conditione						13	1
14		No	The <u>combined</u> su	rface area of the ducts Outdoors	in the following locations is m	ore than 25% of th	e total surface area of the entire due	ct system:		-	14	
					er a roof that has a U-factor g	reater than the u-fa	actor of the ceiling, or if the roof doe	s not meet th	e			
						vents or openings	to the outside/ unconditioned space	es				
				In an unconditioned cr								
15					<u> </u>	which is constructed	d, insulated or sealed with asbestos.				15	Т
16			The scope of the	project includes an exis	sting duct system that is docur	mented to have be	en previously sealed as confirmed th	rough field ve	rification		16	1
			_		th procedures in the Reference		pendix NA2.					1
17 ne answers t	to the cues			be sealed in acordance owing duct systems:	e with the California Mechanic AC-3E		sting triggered for these systems?	No		The answ	wers to t	ne d
11				,	uct systems serving healthcare		5 - 50 - 12 - 11 these systems	1			11	Ť
12							e zone, space-conditioning system.				12	
13			· ·		ss than 5,000 ft <sup>2</sup> of conditione		a babal anufara ana Cifica di Ci				13	
14		No	The <u>combined</u> su	rface area of the ducts Outdoors	in the following locations is m	iore than 25% of th	e total surface area of the entire du	ct system:			14	
					er a roof that has a U-factor g	reater than the u-fa	actor of the ceiling, or if the roof doe	es not meet th	e			
				requirements of §140.	3(a)1B or if the roof has fixed		to the outside/ unconditioned space					
				In an unconditioned cr								
15					·	vhich is constructed	d, insulated or sealed with asbestos.				15	Т
16							en previously sealed as confirmed th	rough field ve	rification	,	16	
10			and diagnostic te	sting in accordance wit	th procedures in the Reference	Nonrecidential Ar	nendix NA2		l	7		
CA Building Er	nergy Efficier	Yes ency Standard	Duct system shal		e with the California Mechanic Registration Date/Time: Report Version: 2019.1. Schema Version: rev 20	cal Code		ation Provider: I		Registrat  CA Buildi  STATE OF G		y Eff
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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L DICTRIBUTIO	AN (DUCTINOD	K I DIDING)					DISTRIBUTION	I /DI ISTIMO
	ON (DUCTWOR	k and PIPING) low apply to the followi	ing duct systems:	AC-4D Duct le	akage testing triggered for these systems?	No	L. DISTRIBUTION The answers to the	
11	No	<del></del>		duct systems serving healthcare facilities	akage testing triggered for these systems:	INO	11	No No
12	Yes	<u> </u>	<u> </u>		me, single zone, space-conditioning system.		12	Yes
13	Yes	The space condition	ning system serves l	ess than 5,000 ft <sup>2</sup> of conditioned floor are	ea.		13	Yes
14	No			s in the following locations is more than 2	25% of the total surface area of the entire duc	ct system:	14	No
			utdoors					
					n the u-factor of the ceiling, or if the roof doe openings to the outside/ unconditioned space			
		□ In a	an unconditioned o	crawl space	· · · · · · · · · · · · · · · · · · ·			
		□ In o	other unconditione	ed spaces				
15					nstructed, insulated or sealed with asbestos.		15	
16				isting duct system that is documented to ith procedures in the Reference Nonresid	have been previously sealed as confirmed the lential Appendix NA2	rough field verification	16	
17	Yes			ce with the California Mechanical Code	Remain Appendix NAZ.		17	Yes
		low apply to the followi			akage testing triggered for these systems?	No	The answers to th	
11	No			duct systems serving healthcare facilities			11	No
12	Yes				me, single zone, space-conditioning system.		12	Yes
13	Yes	-		ess than 5,000 ft <sup>2</sup> of conditioned floor are			13	Yes
14	No		ce area of the ducts utdoors	s in the following locations is more than 2	25% of the total surface area of the entire duc	et system:	14	No
		In :		der a roof that has a U-factor greater tha	n the u-factor of the ceiling, or if the roof doe	s not meet the		
					ppenings to the outside/ unconditioned space			
			an unconditioned c	crawl space				
			other unconditione	ed spaces				
15							4-	
					nstructed, insulated or sealed with asbestos.	rough field varification	15	
16		The scope of the pro	oject includes an ex	isting duct system that is documented to	have been previously sealed as confirmed the	rough field verification	15 16	
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Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Provider: Energysoft

Report Generated: 2020-12-23 15:53:25

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

12		Yes	Duct system pro				<del>-                                    </del>	
13		Yes	The space condi	tioning system serves le	ess than 5,000 ft <sup>2</sup> of condition	oned floor area.		
14		No	The <u>combined</u> sı	urface area of the ducts	in the following locations is	more than 25% of the total surface area of the	e entire duct system:	
				Outdoors	,			
						r greater than the u-factor of the ceiling, or if the deling, or if the deling or openings to the outside/unconditi		t the
				In an unconditioned cr	rawl space			
				In other unconditioned	d spaces			
15			The scope of the	project includes extend	ding an existing duct system	, which is constructed, insulated or sealed with	n asbestos.	
16			•		• ,	cumented to have been previously sealed as conce Nonresidential Appendix NA2.	onfirmed through fiel	d verification
17		Yes	Duct system sha	II be sealed in acordanc	e with the California Mecha	nical Code		
egistration Nu		ncy Standard	s - 2019 Nonreside	ential Compliance	Registration Date/Ti Report Version: 201! Schema Version: rev	0.1.003 Re	Registration Provid	
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oject Name: oject Address  DISTRIBUT ne answers to 11 12 13 14  15 16 17  COOLING nis section do  DECLARAT lections have lesse docume tps://www.e	TION (DUC o the ques	Yes  Ply to this part of the provided grov/title 24/	r apply to the foll The scope of the Duct system prov The space condit The combined st  The scope of the The scope of the and diagnostic te Duct system shale  CERTIFICATES C In information proto to the building in (2019standards/2)	e project includes only devides conditioned air to vides conditioned air to tioning system serves le urface area of the ducts  Outdoors  In a space directly und requirements of §140.  In an unconditioned or In other unconcitioned project includes extended project includes an exit esting in accordance with the sealed in acordance with	AC-6E luct systems serving healther an occupiable space for a cess than 5,000 ft² of condition in the following locations is ler a roof that has a U-factor (3(a)13) or if the roof has fix rawl space dispaces ding an existing duct system that is do the procedures in the Reference with the California Mechanisms of this document. If any section and can be found onliments/Nonresidential_Documents/Nonresidential_Documents/Nonresidential_Documents/Nonresidential_Documents/Title	Duct leakage testing triggered for these stare facilities constant volume, single zone, space-conditioning and floor area. It more than 25% of the total surface area of the regreater than the u-factor of the ceiling, or if the divents or openings to the outside/ uncondition, which is constructed, insulated or sealed with cumented to have been previously sealed as conce Nonresidential Appendix NA2.  Inical Code  Delection needs to be changed, please explain where at	ystems?  ng system.  e entire duct system:  the roof does not mee oned spaces  n asbestos.  onfirmed through fielding in Table E Additional	12/23/202  No  t the

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

The answers to the cuestions below apply to the following duct systems:

AC-2D

Duct leakage testing triggered for these systems?

No

No The <u>combined</u> surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:

and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.

Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.

The answers to the questions below apply to the following duct systems: AC-3D Duct leakage testing triggered for these systems? No

The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.

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

quirements of §140.3(a)13 or if the roof has fixed vents or openings to the outside/ unconditioned spaces

The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification

12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.

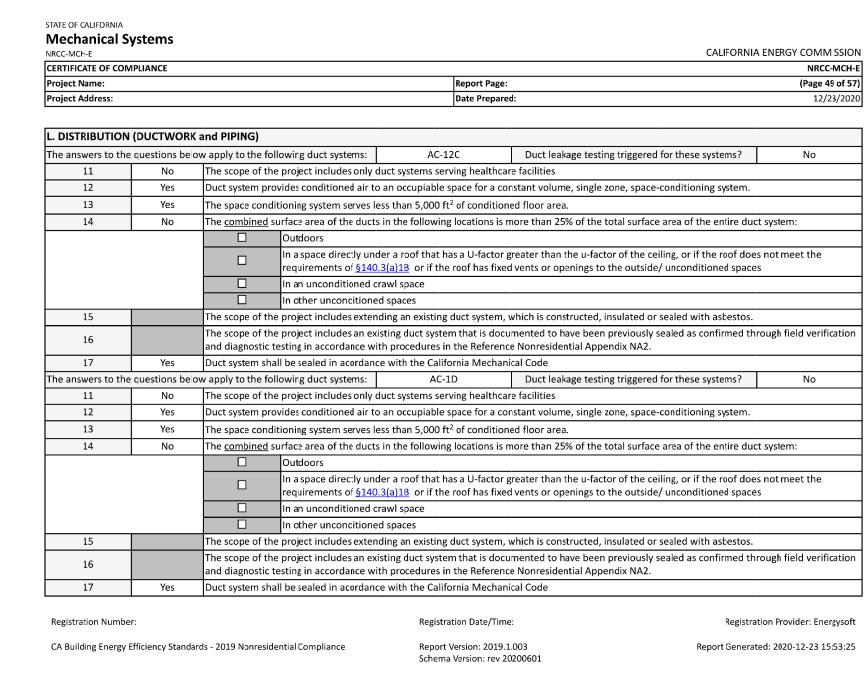
11 No The scope of the project includes only duct systems serving healthcare facilities

13 Yes The space conditioning system serves less than 5,000 ft<sup>2</sup> of conditioned floor area.

17 Yes Duct system shall be sealed in acordance with the California Mechanical Code

No The scope of the project includes only duct systems serving healthcare facilities

L. DISTRIBUTION (DUCTWORK and PIPING)



STATE OF CALIFORNIA

STATE OF CALIFORNIA

NRCC-MCH-E

Mechanical Systems

Registration Provider: Energysoft

Report Generated: 2020-12-23 15:53:25

**Mechanical Systems** 

CERTIFICATE OF COMPLIANCE

Project Name:				Report Page:	(Page 53 of 57					
Project Address:			I	Date Prepared	:	12/23/202				
L. DISTRIBUTIO	N (DUCTWOR	K and PIPING)								
The answers to th	ne questions be	low apply to the following duct systems:	AC-4E		Duct leakage testing triggered for these systems?	No				
11	No	The scope of the project includes only	e scope of the project includes only duct systems serving healthcare facilities							
12	Yes	Duct system provides conditioned air t	act system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.							
13	Yes	The space conditioning system serves	ne space conditioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.							
14	No	The combined surface area of the duct	s in the following l	ocations is m	ore than 25% of the total surface area of the entire duct	system:				
	•	Outdoors								
					reater than the u-factor of the ceiling, or if the roof does vents or openings to the outside/ unconditioned spaces	not meet the				
		·								
		☐ In other unconcition	ed spaces							
15		The scope of the project includes exter	nding an existing d	uct system, v	which is constructed, insulated or sealed with askestos.					
16		The scope of the project includes an example and diagnostic testing in accordance w			mented to have been previously sealed as confirmed thro	ough field verificatio				
17	Yes	Duct system shall be sealed in acordan			•••					
The answers to th	ne questions be	low apply to the following duct systems:	AC-5E		Duct leakage testing triggered for these systems?	No				
11	No	The scope of the project includes only	duct systems servi	ng healthcar	e facilities					
12	Yes	Duct system provides conditioned air t	o an occupiable sp	ace for a cor	stant volume, single zone, space-conditioning system.					
13	Yes	The space conditioning system serves	less than 5,000 ft <sup>2</sup>	of condition	ed floor area.					
14	No	The combined surface area of the duct	s in the following l	ocations is m	ore than 25% of the total surface area of the entire duct	system:				
	_	Outdoors								
					reater than the u-factor of the ceiling, or if the roof does vents or openings to the outside/ unconditioned spaces	not meet the				
		☐ In an unconditioned o	crawl space							
		☐ In other unconcition	ed spaces							
15		The scope of the project includes exter	nding an existing d	uct system, v	hich is constructed, insulated or sealed with askestos.					
16					mented to have been previously sealed as confirmed thro	ough field verificatio				
		and diagnostic testing in accordance w								
17	Yes	Duct system shall be sealed in acordan	ce with the Califor	nia Mechani	cal Code					

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-12-23 15:53:25 Schema Version: rev 20200601

(Page 57 of 57) DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Company: Dufoe Consulting Engineers, Inc. Signature Date: 12/30/2020
CEA/ HERS Certification Identification (if applicable 10680 Treena St. #163 San Diego CA 92131 858-368-8630 RESPONSIBLE PERSON'S DECLARATION STATEMENT certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. . I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the require of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Signature: desponsible Designer Name: Jeff Dufce Dufoe Consulting Engineers, Inc. 2020-12-23 32824 10680 Treena St. #163 San Diego CA 92131 858.368.8630

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-12-23 15:53:25 Schema Version: rev 20200601

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RANCHO CUCAMONGA

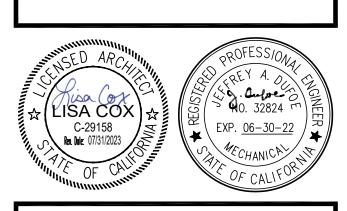
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<u></u>		RE	VISIONS	
	$\wedge$	NO DATE	NO DATE BY	↑ DEVISIONS

CHECKED: JD **DATE**: 03/10/2021 **SCALE**: PROJECT NUMBER: 1726200

**MECHANICAL** TITLE 24 **CALCULATIONS** 

DRAWING NUMBER: M-0.5

					(	GAS	ROO	FTOP	PAC	KAGE	D AC	UNI	ΓS											
LINIT	MANUEACTURER			000	ECD		COOLING	9	HEAT	ING			ELECTRI	ICAL			POWER	EXHAUS <sup>-</sup>	Γ		OPERATING	CURB	EXISTING	
UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	C.F.M.	OSA (CFM)	E.S.P. (IN. WC)	TOTAL (MBH)	SENSIBLE (MBH)	E.E.R. / S.E.E.R.	INPUT (MBH)	OUTPUT (MBH)	A.F.U.E. (%)	INDOOR MOTOR B.H.P.	V./PH./HZ.	M.C.A.	M.O.P.	V./PH./HZ.	H.P.	F.L.A.	M.C.A.	M.O.C.P.	WEIGHT	CURB ADAPTER WEIGHT LBS	CURB WEIGHT LBS	REMARKS
AC 1-A	TRANE YHD-210	BUILDING A	7,000	735	0.6	214.84	170.54	11.8 / 14.0	250.00	200.00	80	4.37	460/3/60	42	50	460/3/60	2	6.5	8.1	14.6	3,000	N/A	250	1 3 4 7 8 10 12 13
AC 2-A	TRANE YHD-180	BUILDING A	6,000	570	0.6	180.52	142.17	12.0 / 15.0	250.00	200.00	80	2.98	460/3/60	33	45	460/3/60	2	6.5	8.1	14.6	3,000	N/A	220	1 3 4 7 8 10 12 13
AC 1-B	TRANE YHC-120	BUILDING B	4,000	360	0.5	113.97	94.06	12.4 / 15.2	150.00	120.00	80	1.34	460/3/60	22	25	460/3/60	2	4.5	5.6	10.1	1,700	300	200	1 3 4 5 8 10 12 13
AC 2-B	TRANE YHC-102	BUILDING B	3,400	450	0.6	98.14	77.86	12.5 / 14.7	120.00	96.00	80	1.35	460/3/60	22	25	460/3/60	1	2.8	3.5	6.3	1,390	110	200	1 3 4 5 8 10 12 13
AC 3-B	TRANE YHC-102	BUILDING B	3,400	480	0.6	98.14	77.86	12.5 / 14.7	120.00	96.00	80	1.35	460/3/60	22	25	460/3/60	1	2.8	3.5	6.3	1,390	110	200	1 3 4 5 8 10 12 13
AC 4-B	TRANE YHC-102	BUILDING B	3,400	888	0.6	98.14	77.86	12.5 / 14.7	120.00	96.00	80	1.35	460/3/60	22	25	460/3/60	1	2.8	3.5	6.3	1,390	110	200	1 3 4 5 8 10 12 13
AC 5-B	TRANE YHC-060	BUILDING B	2,000	555	0.6	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1345891214
AC 6-B	TRANE YHH-180	BUILDING B	6,000	1,050	0.6	180.52	142.17	12.0 / 15.0	250.00	200.00	80	2.98	460/3/60	33	45	460/3/60	2	6.5	8.1	14.6	3,000	N/A	220	2 3 4 6 8 10 12 13
AC 7-B	TRANE YHH-180	BUILDING B	6,000	1050	0.6	180.52	142.17	12.0 / 15.0	250.00	200.00	80	2.98	460/3/60	33	45	460/3/60	2	6.5	8.1	14.6	3,000	N/A	220	2 3 4 6 8 10 12 13
AC 1-C	TRANE YHC-074	BUILDING C	2,500	525	0.5	73.93	60.08	13.1 / 16.0	80.00	64.80	81	0.87	460/3/60	18	20	460/3/60	N/A	N/A	N/A	N/A	1,170	130	100	1 3 4 5 8 9 12 13
AC 2-C	TRANE YHC-074	BUILDING C	2,500	600	0.5	73.93	60.08	13.1 / 16.0	80.00	64.80	81	0.87	460/3/60	18	20	460/3/60	N/A	N/A	N/A	N/A	1,170	130	100	1345891213
AC 3-C	TRANE YHC-060	BUILDING C	2,000	450	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1345891214
AC 4-C	TRANE YHC-060	BUILDING C	2,000	450	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1 3 4 5 8 9 12 14
AC 5-C	TRANE YHC-060	BUILDING C	2,000	450	0.6	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1 3 4 5 8 9 12 14
AC 6-C	TRANE YHC-060	BUILDING C	2,000	450	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1 3 4 5 8 9 12 14
AC 7-C	TRANE YHC-060	BUILDING C	2,000	450	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1 3 4 5 8 9 12 14
AC 8-C	TRANE YHC-060	BUILDING C	2,000	450	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1345891214
AC 9-C	TRANE YHC-060	BUILDING C	2,000	450	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1 3 4 5 8 9 12 14
AC 10-C	TRANE YHC-092	BUILDING C	3,000	450	0.5	92.00	68.36	12.6 / 15.0	120.00	96.00	80	1.18	460/3/60	20	25	460/3/60	1	2.8	3.5	6.3	1,370	130	100	1 3 4 5 8 10 12 13
AC 11-C	TRANE YHD-150	BUILDING C	5,000	780	0.6	152.39	119.70	12.1 / 15.0	150.00	120.00	80	2.43	460/3/60	30	40	460/3/60	2	6.5	8.1	14.6	2,800	200	220	1 3 4 5 8 10 12 13
AC 12-C	TRANE YHD-150	BUILDING C	5,000	510	0.6	152.39	119.70	12.1 / 15.0	150.00	120.00	80	2.43	460/3/60	30	40	460/3/60	2	6.5	8.1	14.6	2,800	200	220	1 3 4 5 8 10 12 13
AC 1-D	TRANE YHC-120	BUILDING D	4,000	465	0.6	113.97	94.06	12.4 / 15.2	150.00	120.00	80	2.33	460/3/60	22	25	460/3/60	2	4.5	5.6	10.1	1,700	300	200	1 3 4 5 8 10 12 13
AC 2-D	TRANE YHC-120	BUILDING D	4,000	660	0.6	113.97	94.06	12.4 / 15.2	150.00	120.00	80	1.34	460/3/60	22	25	460/3/60	2	4.5	5.6	10.1	1,700	300	200	1 3 4 5 8 10 12 13
AC 3-D	TRANE YHD-210	BUILDING D	7,000	1,020	0.6	214.84	170.54	11.8 / 14.0	250.00	200.00	80	4.37	460/3/60	42	50	460/3/60	2	6.5	8.1	14.6	3,000	N/A	250	1 3 4 7 8 10 12 13
AC 4-D	TRANE YHD-210	BUILDING D	7,000	780	0.6	214.84	170.54	11.8 / 14.0	250.00	200.00	80	4.37	460/3/60	42	50	460/3/60	2	6.5	8.1	14.6	3,000	N/A	250	1 3 4 7 8 10 12 13
AC 1-E	TRANE YHC-102	BUILDING E	3,400	1,550	0.6	98.14	77.86	12.5 / 14.7	120.00	96.00	80	1.35	460/3/60	22	25	460/3/60	1	2.8	3.5	6.3	1,390	110	200	1 3 4 5 8 10 12 13
AC 2-E	TRANE YHC-102	BUILDING E	3,400	1,550	0.6	98.14	77.86	12.5 / 14.7	120.00	96.00	80	1.35	460/3/60	22	25	460/3/60	1	2.8	3.5	6.3	1,390	110	200	1 3 4 5 8 10 12 13
AC 3-E	TRANE YHC-060	BUILDING E	2,000	255	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1 3 4 5 8 9 12 14
AC 4-E	TRANE YHC-060	BUILDING E	2,000	270	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1 3 4 5 8 9 12 14
AC 5-E	TRANE YHC-060	BUILDING E	2,000	270	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1345891214
AC 6-E	TRANE YHC-060	BUILDING E	2,000	270	0.5	61.00	45.83	12.8 / 15.0	60.00	49.00	82	0.86	460/3/60	14	20	460/3/60	N/A	N/A	N/A	N/A	870	130	100	1 3 4 5 8 9 12 14

7) NO CURB ADAPTER REQUIRED. REUSE EXISTING CURB. 8) FURNISH WITH FACTORY PROVIDED CO2 MONITORING FOR DEMAND CONTROL VENTILATION 9) PROVIDE WITH UNIT WITH MODULATING ECONOMIZER AND POWER EXHAUST WITH FAULT DETECTION & DIAGNOSTIC SYSTEM.

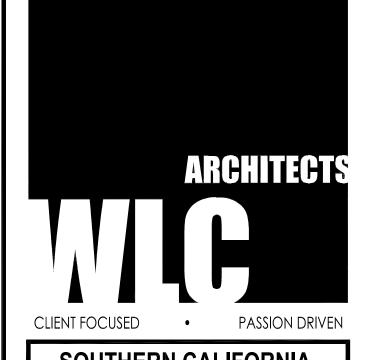
1) VERTICAL DUCT DISCHARGE PACKAGED DX AC UNIT. (2) HORIZONTAL DUCT DISCHARGE PACKAGED DX AC UNIT. (3) ELECTRICAL TO PROVIDE FUSED DISCONNECT. (4) PROVIDE THERMOSTAT INSTALLED AT 48" AFF. (5) PROVIDE WITH UNIT CURB ADAPTER. (6) PLACE NEW UNIT ON EXISTING PLATFORM.

11) NOT USED.

(12) EXISTING UNIT THERMOSTAT TO BE REPLACED. CONTRACTOR TO INSTALL NEW WIFI THERMOSTAT "VENSTAR T2900SCH" AND CONNECT TO DISTRICT 2.4 GHZ WIFI NETWORK. PROVIDE ANY NECESSARY INTERFACE CARDS.

(13) EXISTING SMOKE DETECTORS DUCT MOUNTED OR UNIT MOUNTED SHALL BE REMOVED AND RE-INSTALLED. PROVIDE NECESSARY HARDWARE FOR UNIT SHUT DOWN. COORDINATE WITH FIRE ALARM VENDOR. (14) PROVIDE WITH ULTRA LOW NOX OPTION

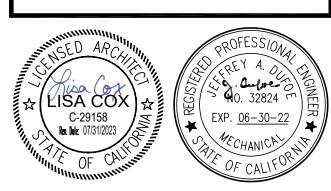
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SCHOOL THOMPSON MIDDLE SCHO
HVAC REPLACEMENT
MURRIETA VALLEY UNIFIED SCHOOL DI





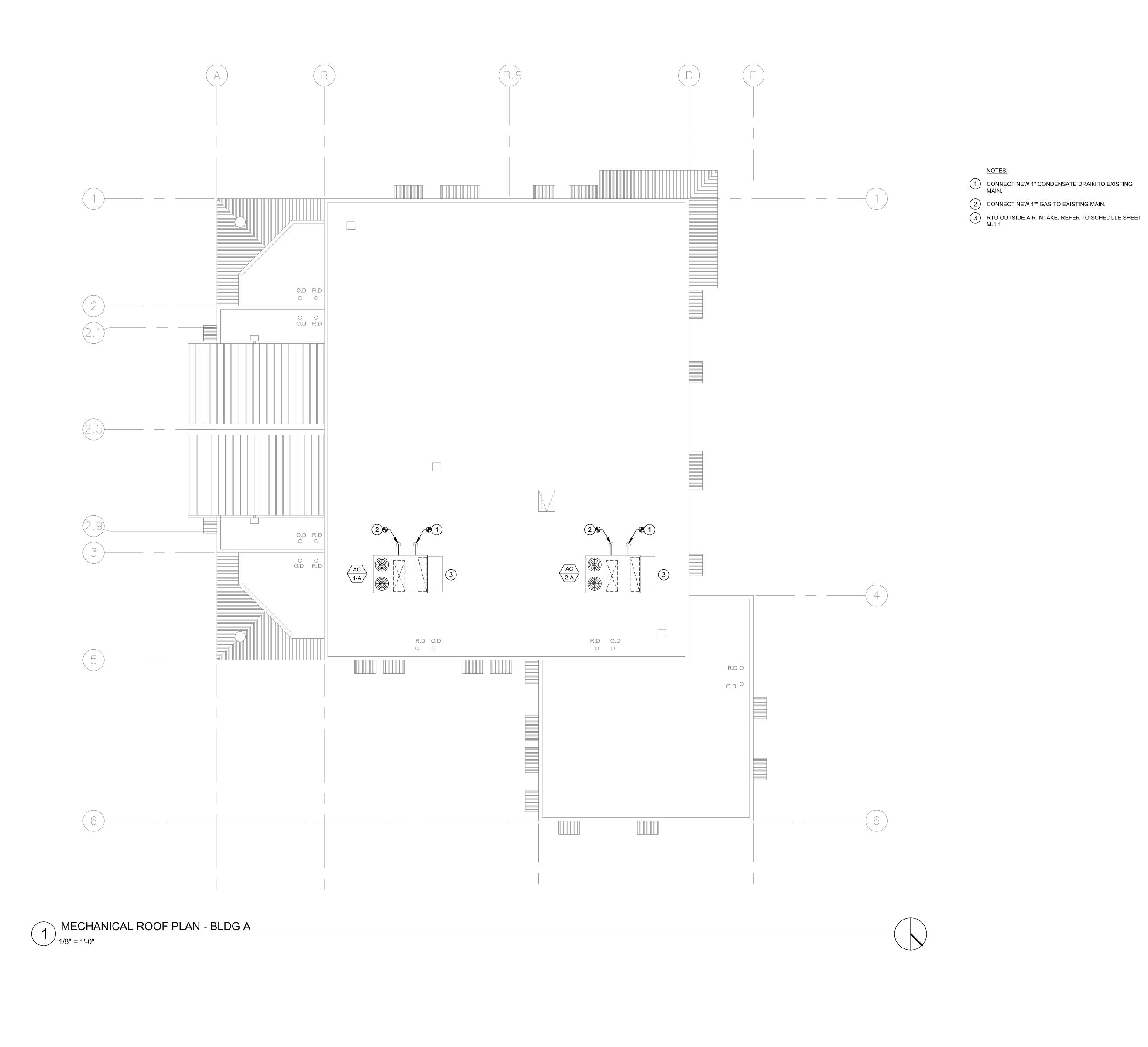
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I			ALIEAL/ED ID

CHECKED: JD DRAWN: RV **DATE**: 03/10/2021 **SCALE**: PROJECT NUMBER: 1726200

MECHANICAL SCHEDULES

DRAWING NUMBER:

M-1.1



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PROJECT NUMBER: 1726200 **MECHANICAL ROOF PLAN -BLDG A** 

NO DATE BY DESCRIPTION

**DATE**: 03/10/2021 **SCALE**:

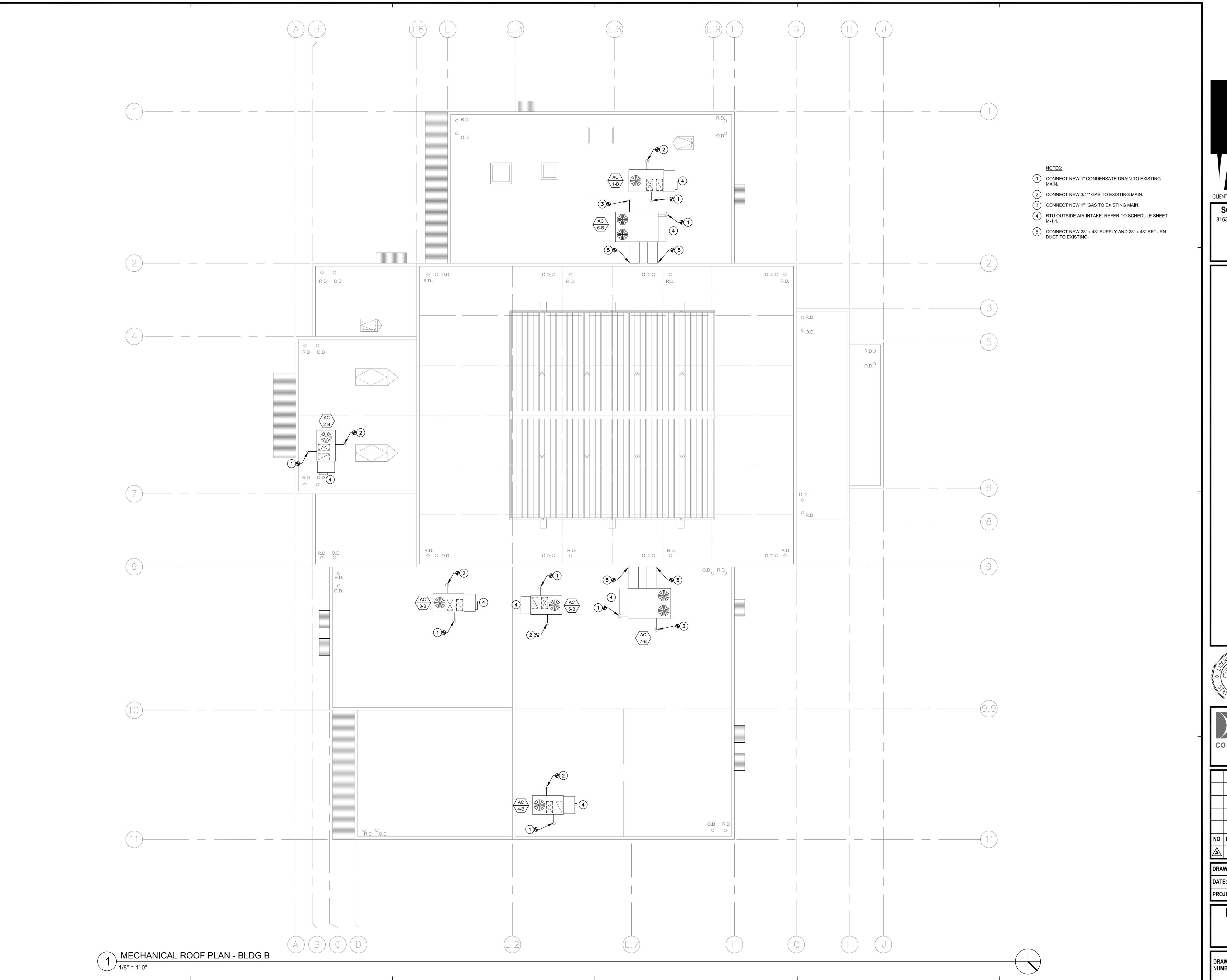
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DRAWING NUMBER: M-2.A



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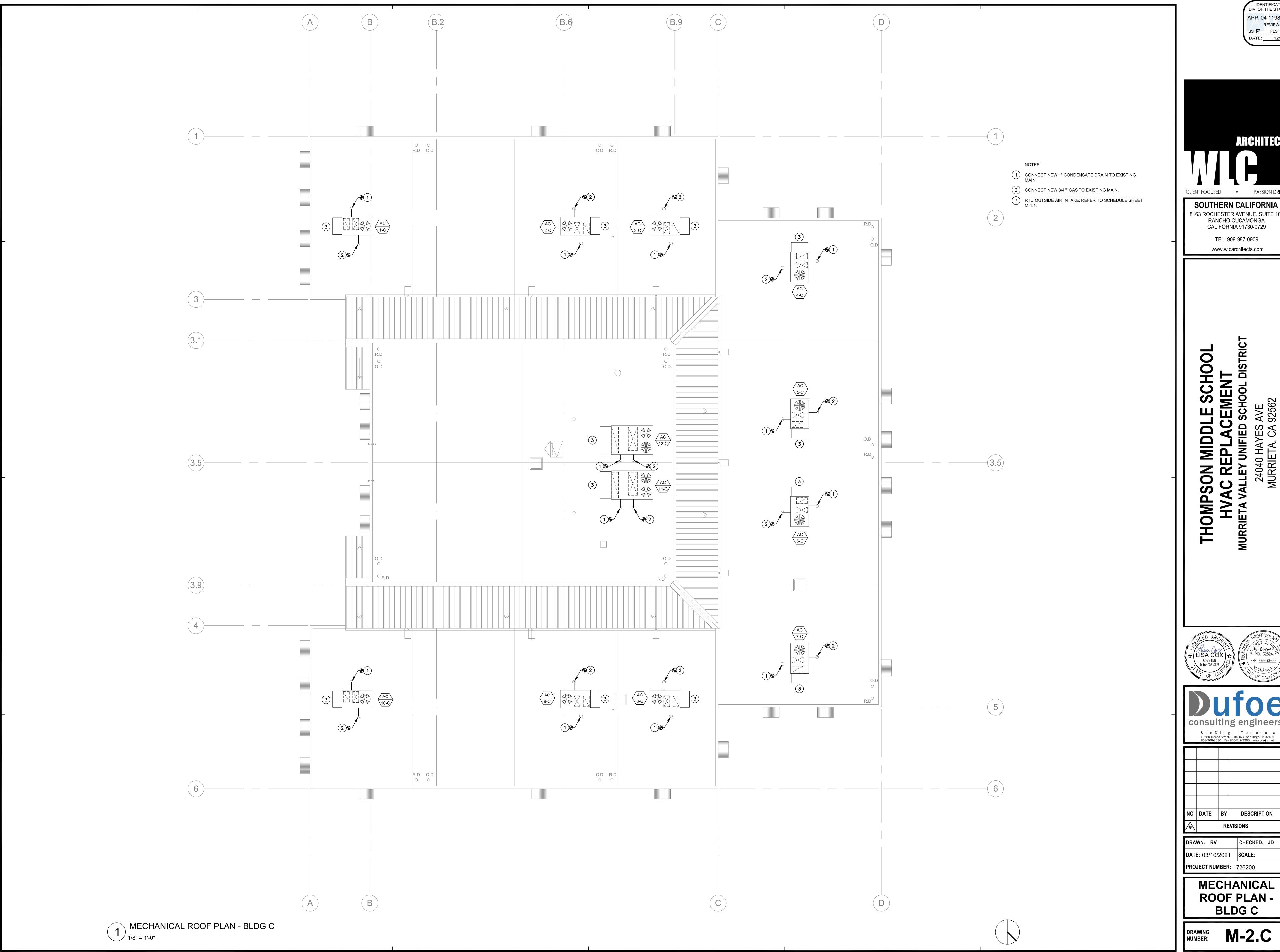


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**MECHANICAL ROOF PLAN -BLDG B** 

M-2.B



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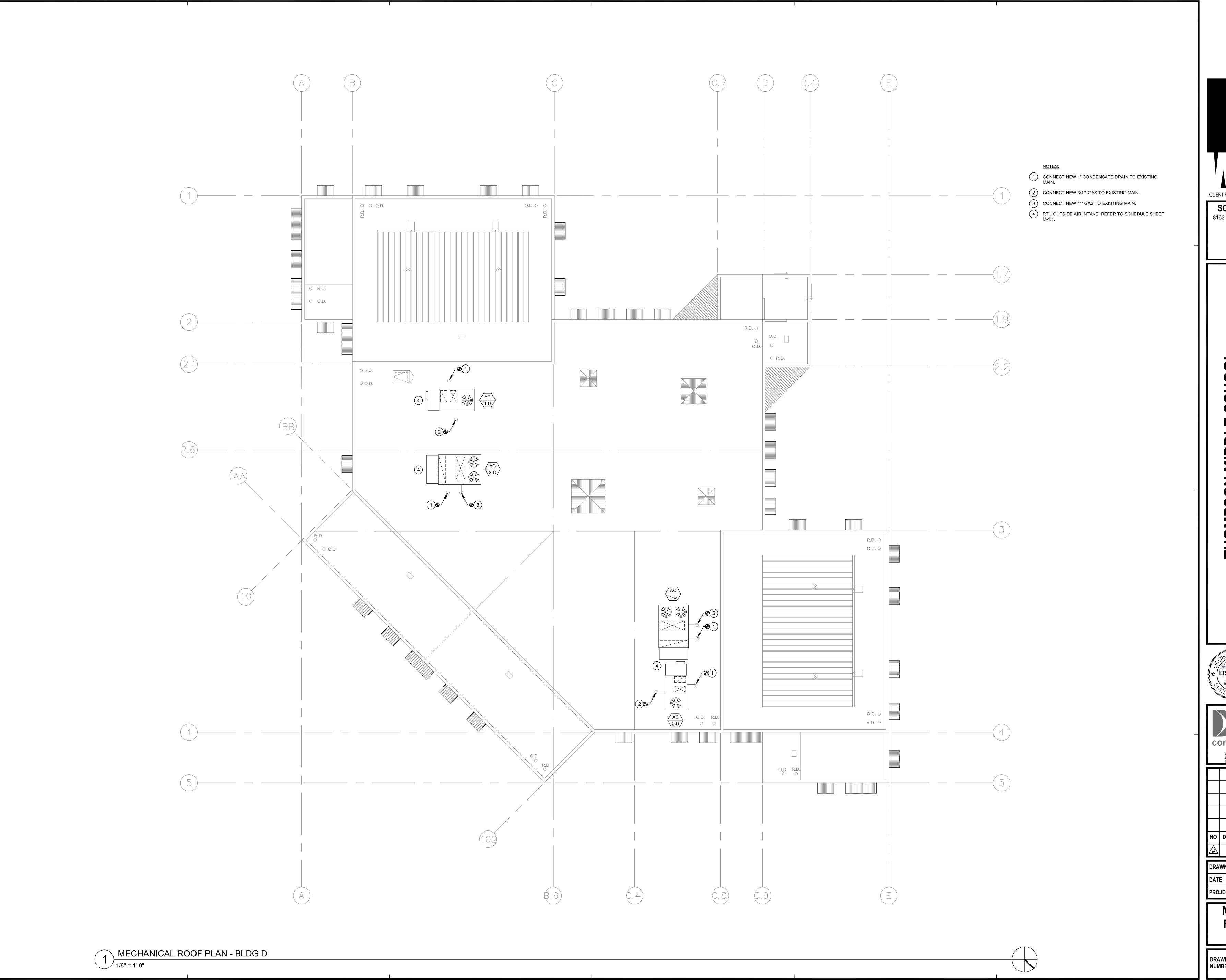
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**REVISIONS** CHECKED: JD

**MECHANICAL** 

M-2.C



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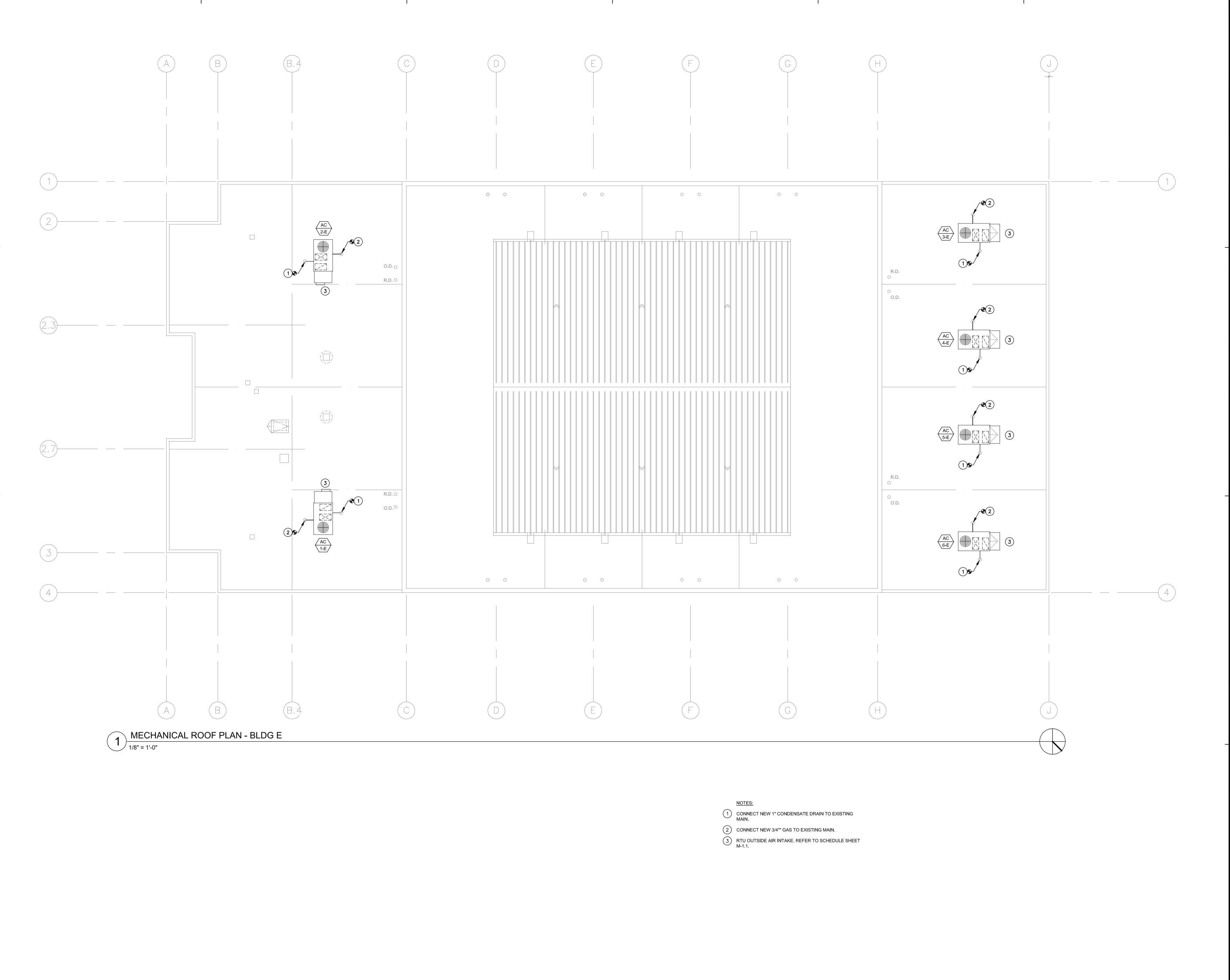
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	RE	VISIONS
	DATE	

CHECKED: JD **DATE**: 03/10/2021 **SCALE**: PROJECT NUMBER: 1726200

> **MECHANICAL ROOF PLAN -**BLDG D

M-2.D

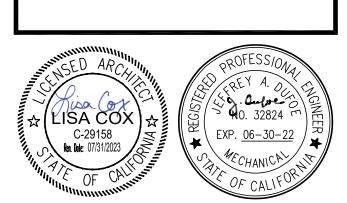




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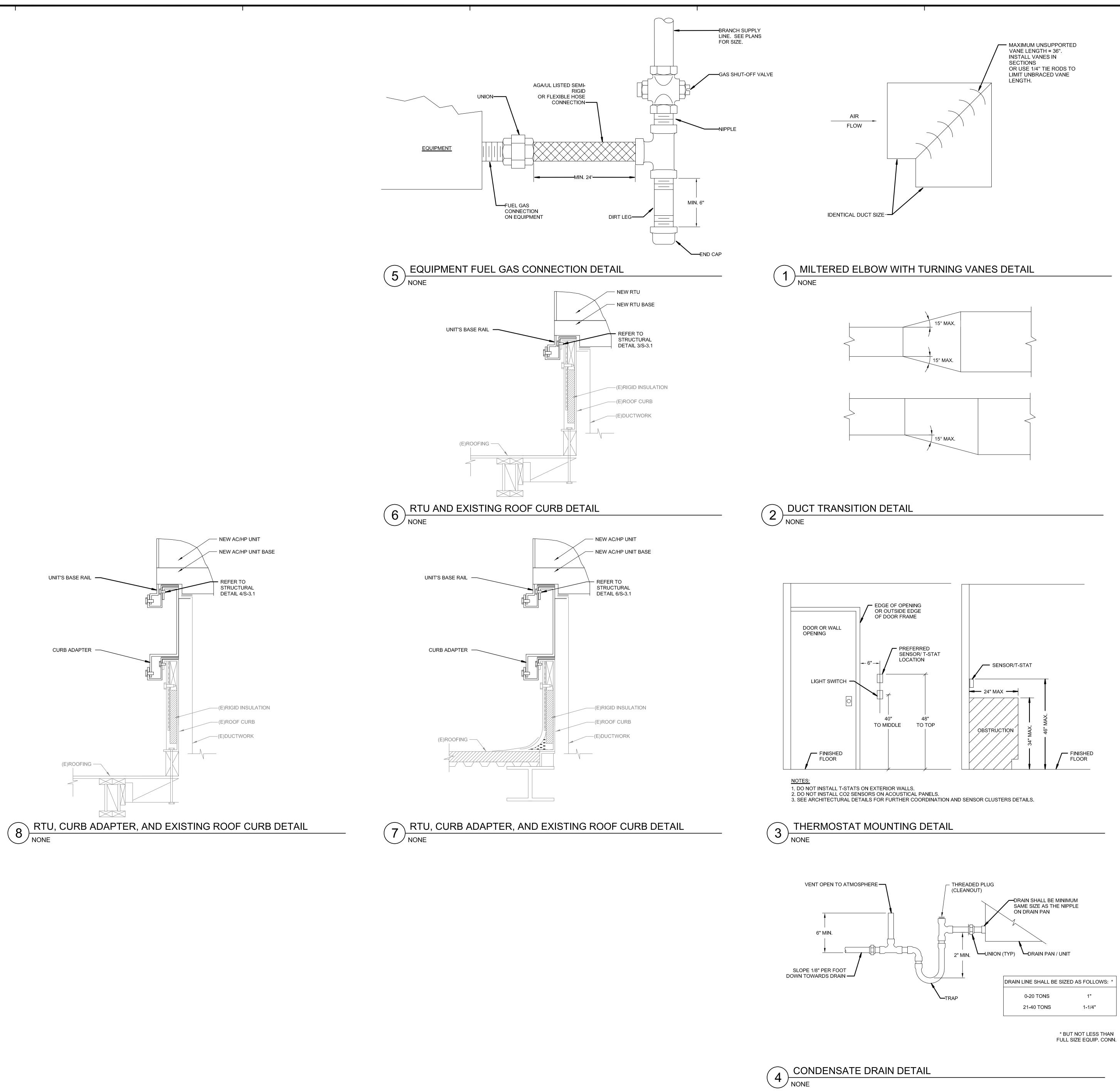


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<b>A</b>		RE	VISIONS					

DRAWN: RV	CHECKED: JD
<b>DATE</b> : 03/10/2021	SCALE:
PROJECT NUMBER: 1	726200

**MECHANICAL ROOF PLAN -BLDG E** 

DRAWING NUMBER: M-2.E



- NEW AC/HP UNIT

STRUCTURAL DETAIL 4/S-3.1

——(E)RIGID INSULATION

—(E)ROOF CURB

(E)DUCTWORK

UNIT'S BASE RAIL -

CURB ADAPTER ——

(E)ROOFING -

NEW AC/HP UNIT BASE

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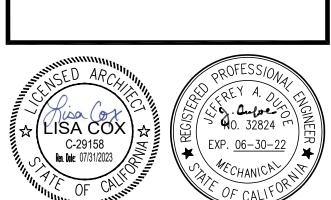
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	NO	DATE	BY	DESCRIPTION
	<b>A</b>		RE	VISIONS

DRAWN: RV CHECKED: JD **DATE**: 03/10/2021 **SCALE**: PROJECT NUMBER: 1726200

> **MECHANICAL DETAILS**

DRAWING NUMBER:

M-5.1

#### **ABBREVIATIONS**

PYC

SWBD

AMPERE (AMPS) ALTERNATING CURRENT AMPS-FRAME (RATING) AMP INTERRUPTING CURRENT AMP SWITCH (FUSED SWITCH RATING) AMPS-TRIP (RATING) AMERICAN WIRE GAUGE BARE COPPER BLDG BUILDING CONDUIT CB CIRCUIT BREAKER CONDUIT ONLY CURRENT TRANSFORMER COPPER CFOI CONTRACTOR FURNISHED OWNER INSTALLED CONTRACTOR FURNISHED CONTRACTOR INSTALLED CFCI DPDT DOUBLE POLE DOUBLE THROW DPST DOUBLE POLE SINGLE THROW DWG DRAWING Ε× EXISTING FLA FULL LOAD AMPS FYR FULL YOLTAGE REVERSING FYNR FULL YOLTAGE NON-REVERSING GROUND FAULT INTERRUPTER GRD/GND GROUND HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC HORSEPOWER HIGH PRESSURE SODIUM KILOWATT LONG CONTINUOUS LOAD LOCKED ROTOR AMPS LTG LIGHTING MCA MINIMUM CIRCUIT AMPACITY MCC MOTOR CONTROL CENTER MCM (KCM) THOUSAND CIRCULAR MILS MECHANICAL NORMALLY CLOSED NON-FUSED NORMALLY OPEN/NUMBER OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED PHASE POINT OF CONNECTION PVC COATED RIGID STEEL (CONDUIT) POTENTIAL TRANSFORMER

POLYVINYL CHLORIDE DUCT

UNLESS OTHERWISE NOTED

WEATHERPROOF (NEMA TYPE 3R)

EXPLOSION PROOF (RATED FOR AREA HAZARD)

SWITCHBOARD

UNDERGROUND

VOLTAMPERES

VOLTMETER

WIRE/WATTS

WATERTIGHT

#### ELECTRICAL SYMBOL LEGEND

DISTRIBU	TION EQUIPMENT
<b>─</b> ≪ >>—	DRAW OUT TYPE EQUIPMENT
$\langle\!\langle$	VACUUM CIRCUIT BREAKER, RATING AS NOTED
$\ll \searrow \longrightarrow$	AIR INTERRUPTER SWITCH AND FUSE
_\	AIR INTERRUPTER
	FUSE
WW.	POWER TRANSFORMER, RATING AS NOTED
$\langle\!\langle\!$	POWER CIRCUIT BREAKER DRAWOUT
~ °	AUTOMATIC TRANSFER SWITCH. SEE SCHEDULE
A	AMMETER
$\bigvee$	VOLTMETER
200AF 200AT 3P 10,000A	CIRCUIT BREAKER  200AMP FRAME  200AMP TRIP  3 POLE  10,000 AMPS INTERRUPTING CURRENT
200AS 200AF 3P	FUSED SWITCH  200AMP SWITCH  200AMP FUSE  3 POLE

UTILITY COMPANY METER

#### POWER DUPLEX RECEPTACLE, FLOOR MOUNTED DUPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.) RECEPTACLE, WALL MOUNTED HORIZONTALLY, +18" A.F.F. (U.O.N.) HORZ. FOURPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.) PROVIDE (2) DUPLEX RECEPTACLE CEILING MOUNTED LOCATE ADJACENT TO PROJECTOR, FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. $\Theta$ SINGLE RECEPTACLE, WALL MOUNTED +18" A.F.F. (U.O.N.) SINGLE RECEPTACLE (CLOCK HANGER TYPE) WALL MOUNTED +7'-0" A.F.F. (U.O.N.) SWITCH CONTROLLED DUPLEX RECEPTACLE +18" U.O.N. DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE +18" A.F.F. (U.O.N.) DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT +18" A.F.F. (U.O.N.) DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE +18" A.F.F. (U.O.N.) DUPLEX RECEPTACLE IN WEATHERPROOF "LOCKING" ENCLOSURE +18" A.F.F. (U.O.N.) (SEE TYPICAL DETAILS E3 SERIES SHEETS AND SPECIFICATIONS FOR REQUIRED TYPE). DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUND WALL MOUNTED +18" A.F.F. (U.O.N.) FOURPLEX RECEPTACLE (ORANGE) ISOLATED GROUND WALL MOUNTED +18" A.F.F. JUNCTION BOX, CEILING OR WALL MOUNTED FUSED DISCONNECT SWITCH, WHERE SHOWN NF = NON-FUSED. MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION +48" A.F.F. OR ON EQUIPMENT (U.O.N.) MOTOR CONNECTION, NUMERAL INDICATES HORSEPOWER. MECHANICAL EQUIPMENT TAG (SEE MECHANICAL DRAWINGS FOR DESCRIPTION) CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL CONDUIT AND WIRE, CONCEALED IN OR UNDER FINISHED FLOOR OR UNDER FINISHED GRADE. FLEXIBLE CONDUIT CONNECTION BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS, EQUIPMENT GROUND WIRE NOT INDICATED U.O.N. #12 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #12 3/4" CONDUIT STUBBED FROM DEVICE TO ABOVE ACCESSIBLE BRANCH CIRCUIT HOMERUN, NUMBER INDICATES INCREASED CONDUCTOR SIZE, CONDUCTORS SHALL REMAIN AS INDICATED FOR SIZE THROUGHOUT THE ENTIRE CIRCUIT.

CONDUIT DROP.

CONDUIT RISER.

PANELBOARD, SURFACE MOUNTED.

PANELBOARD, RECESSED

STEP-DOWN TRANSFORMER

DISTRIBUTION SWITCHBOARD

\_\_\_\_\_

#### GENERAL PROJECT NOTES

- 1. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
- 2. UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
- 3. "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO

SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS.

SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.

4. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

#### MEP COMPONENT ANCHORAGE NOTE:

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.
- 2. 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 YOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. 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 DSA.

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 HAVING 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 WALL.

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 REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE

BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS 1617A.1.25 AND 1617A.1.26.

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 LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

- WITH PROJECT SPECIFIC NOTES AND DETAILS.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 04-119844 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

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PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING

PRESCRIBED IN ASCE 1-16 SECTION 13.3 AS DEFINED IN ASCE 1-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8± AND 2019 CBC, SECTIONS 1617A.1.24, THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE

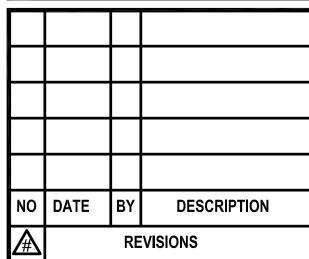
- ☐ ☐ ☐ ☐ ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS
- ☐ ☐ ☐ ○PTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#) #

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**DATE**: 03/10/2021 **SCALE**: PROJECT NUMBER: 1726300

**ELECTRICAL** LEGEND & NOTES

E-1.0

#### GENERAL NOTES

- . REFERENCE MECHANICAL PLANS FOR EXACT EQUIPMENT LOCATIONS PRIOR TO ROUGH-IN.
- 2. WHERE DRAWINGS SHOW EXISTING CONDITIONS, THEY HAVE BEEN DERIVED FROM EXISTING DRAWINGS AND/OR SITE INVESTIGATIONS, AN ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING ELECTRICAL EQUIPMENT LOCATIONS AND CHARACTERISTICS THAT WOULD AFFECT NEW WORK, AS ACCURATELY AS POSSIBLE, HOWEVER THIS DOES NOT RELIEVE THE ELECTRICAL CONTRACTOR FROM RESPONSIBILITY OF A THOROUGH SITE INVESTIGATION, PRIOR TO SUBMITTING FINAL BID, TO ASCERTAIN ALL EXISTING CONDITIONS AND LIMITATIONS.
- 3. COORDINATE THE POINT OF CONNECTION FOR EACH AC UNIT WITH MECHANICAL CONTRACTOR.
- 4. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON E6.6 FOR DISCONNECT SWITCH AND FUSES REQUIREMENTS FOR ALL NEW AC UNITS.
- 5. FIELD YERIFY EXACT PANEL, CIRCUIT, CONDUIT AND CONDUCTOR INFORMATION FOR EACH EXISTING UNIT.
- 6. ALL NON-HYAC ITEMS ATTACHED TO THE EXISTING UNITS SHALL BE CAREFULLY DISCONNECTED AND REMOVED. RE-INSTALL IN AN ALTERNATE LOCATION. UPON COMPLETION OF NEW UNIT INSTALLATION, THE ITEMS SHALL BE TRANSFERRED AND REINSTALLED ON THE NEW UNIT IN THE SAME LOCATION AS REQUIRED. REPLACE EXISTING FLEX CONDUIT AS REQUIRED.
- 7. FIELD VERIFY EXACT LOCATION PRIOR TO DISCONNECT SWITCH INSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR AS REQUIRED.

#### KEY NOTES:

- TO DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTION TO EXISTING AC UNITS BEING REMOVED, INCLUDING DISCONNECT SWITCH, WP J-BOX DUPLEX RECEPTACLE AND FLEX SAFED-OFF PROTECTED AND RE-INSTALLED. PROVIDE NEW DISCONNECT SWITCH AND FUSES
- 2 DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTION TO EXISTING AC UNITS BEING CONNECTION TO EXISTING AC UNITS BEING REMOVED, INCLUDING DISCONNECT SWITCH, WP J-BOX DUPLEX RECEPTACLE AND FLEX CONNECTOR CONDUIT. EXISTING WIRING SHALL BE REMOVED COMPLETELY BACK TO SOURCE. PROVIDE NEW DISCONNECT SWITCH, FUSES, CONDUIT AND WIRING PER HYAC SCHEDULE. CONNECT NEW CONDUCTORS TO NEW 60A/3P BREAKER, DISCONNECT SWITCH AND AC UNIT AS
- 60A/3P BREAKER MATCH EXISTING BREAKER SIZE AND RATING.

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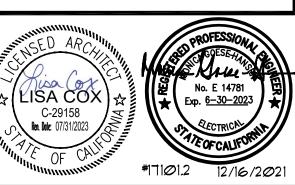
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- CONNECTOR CONDUIT. EXISTING WIRING SHALL BE PER HYAC SCHEDULE. EXTEND EXISTING FEEDER TO NEW DISCONNECT AND AC UNIT AS REQUIRED.
- 3 PROVIDE (1) 25A/3P BREAKERS IN EXISTING SPACE #31, #33 AND #35. MATCH EXISTING BREAKER TYPE AND RATING.
- 4) DISCONNECT AND REMOVE EXISTING 80A/3P BREAKER AT CIRCUIT #1, #3, #5. REPLACE WITH A

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MURRIETA, CA 92562 THOMP

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> **ELECTRICAL ROOF PLAN -BLDG A**



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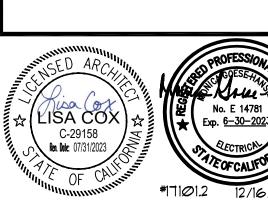
SAFE-OFF EXISTING CIRCUIT AND PROTECT IN PLACE. RE-INSTALL THE RECEPTACLE ON NEW UNIT AS REQUIRED. EXISTING CONDUIT SHALL BE CLIENT FOCUSED PASSION DRIVEN

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DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTION TO EXISTING AC UNITS BEING REMOVED, INCLUDING DISCONNECT SWITCH, WP J-BOX DUPLEX RECEPTACLE AND FLEX CONNECTOR CONDUIT. EXISTING WIRING SHALL BE SAFED-OFF PROTECTED AND RE-INSTALLED. PROVIDE NEW DISCONNECT SWITCH AND FUSES PER HYAC SCHEDULE. EXTEND EXISTING FEEDER TO NEW DISCONNECT AND AC UNIT AS REQUIRED.

- PROVIDE (1) 25A/3P BREAKERS IN EXISTING SPACE #25, #27 AND #29. MATCH EXISTING
- 3 DISCONNECT AND REMOVE EXISTING (3) 20A/IP BREAKERS AT CIRCUIT \*20, \*22 AND \*24. REPLACE WITH (1) 30A/3P BREAKER. MATCH EXISTING BREAKER TYPE AND RATING.
- 4) DISCONNECT AND REMOVE EXISTING RECEPTACLE MOUNTED TO THE EXISTING UNIT. REPLACED WITH NEW CONDUIT AND EXTEND EXISTING CIRCUIT TO THE RECEPTACLE AS



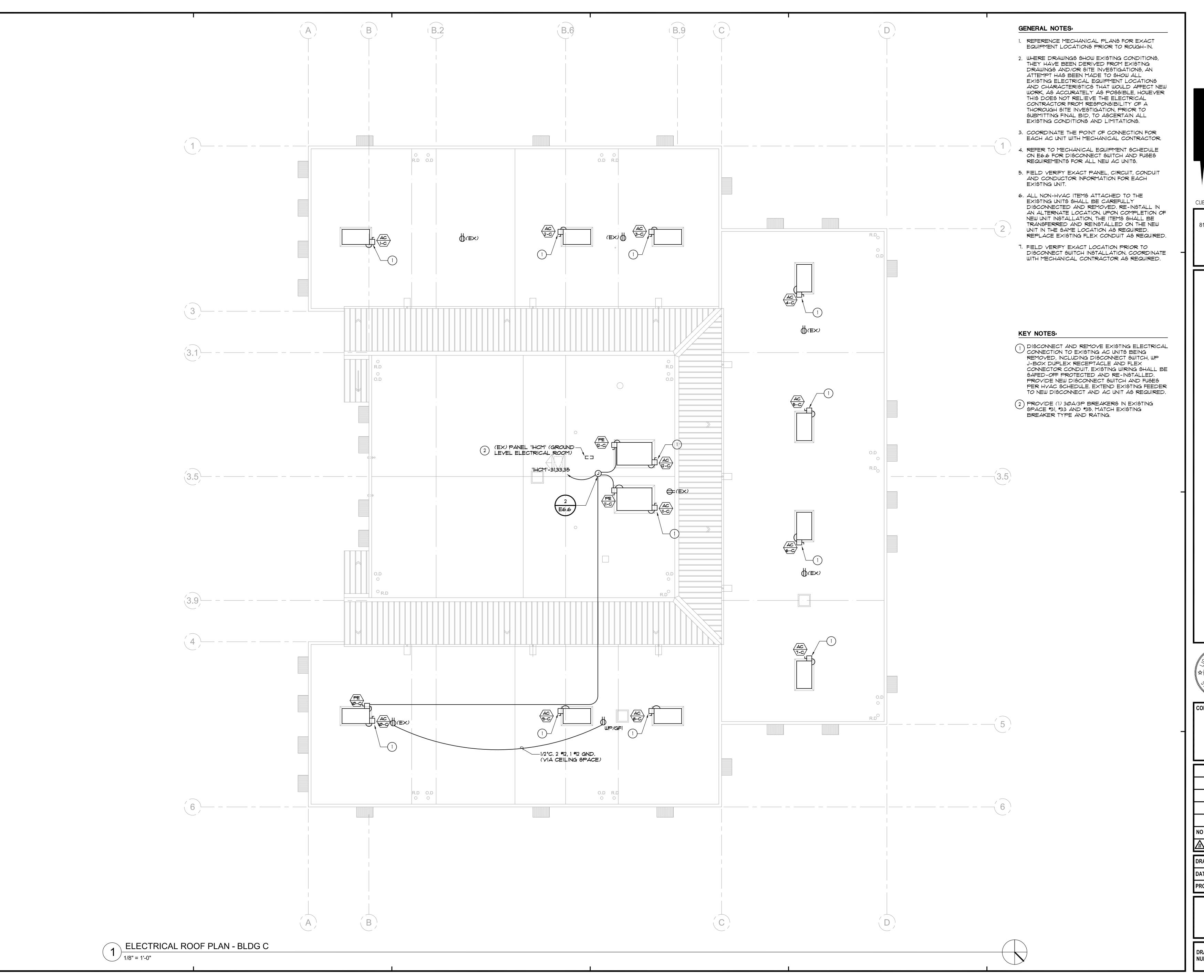
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> **ELECTRICAL ROOF PLAN -BLDG B**



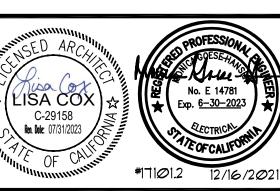


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**ELECTRICAL ROOF PLAN -BLDG C** 

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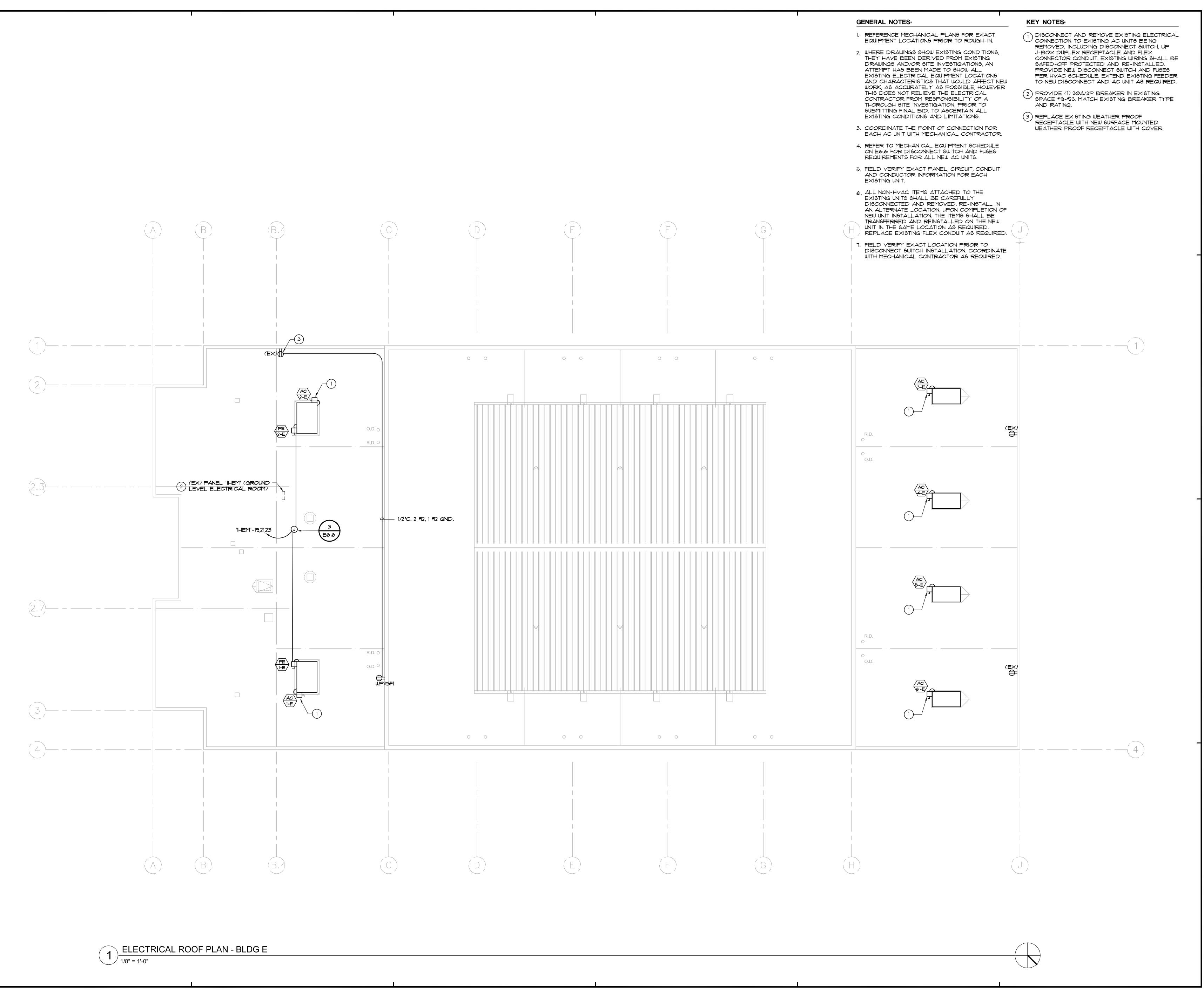
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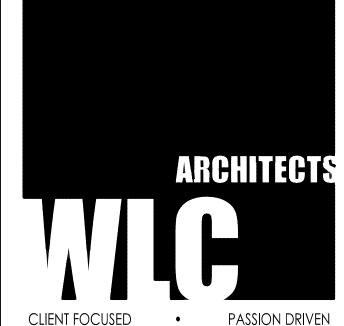
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> **ELECTRICAL ROOF PLAN -**BLDG D





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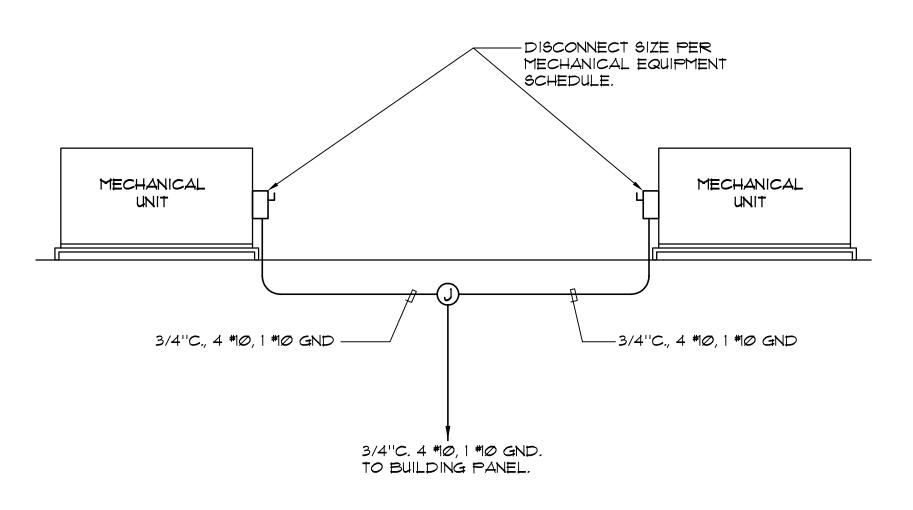
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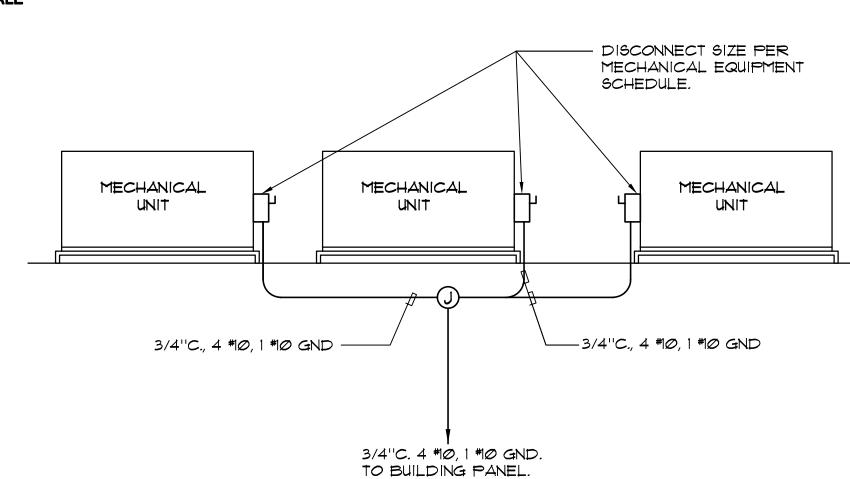
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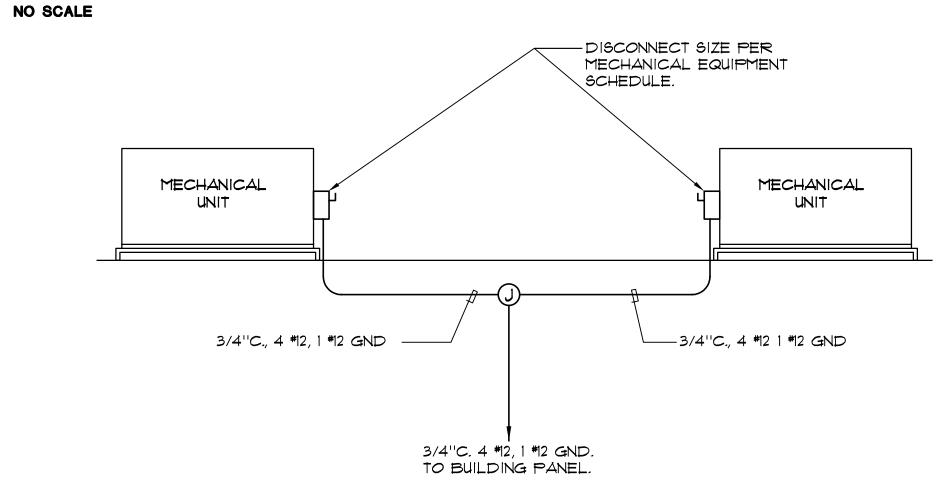
**ELECTRICAL ROOF PLAN -BLDG E** 



TYPICAL MECHANICAL UNIT COMBINATION FEEDER DETAIL 2 UNITS E6.6 NO SCALE



TYPICAL MECHANICAL UNIT COMBINATION FEEDER DETAIL 3 UNITS 2 E6.6



TYPICAL MECHANICAL UNIT COMBINATION FEEDER DETAIL 2 UNITS 3

NO SCALE

	ME	ECHANICAL	EQUIF	PMENT S	CHED	ULE
MARK	VOLTAGE/ PHASE	CONDUIT/ WIRE	FUSE	DISC. SWITCH	PANEL	REMARKS
PE 1-A	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	14.6	3ØA/3P/3R	SEE PLAN	8.1 MCA
PE 2-A	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	14.6	3ØA/3P/3R	SEE PLAN	8.1 MCA
PE 1-B	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	10.1	3ØA/3P/3R	SEE PLAN	5.6 MCA
PE 2-B	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	6.3	30A/3P/3R	SEE PLAN	3.5 MCA
PE 3-B	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	6.3	30A/3P/3R	SEE PLAN	3.5 MCA
PE 4-B	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	6.3	30A/3P/3R	SEE PLAN	3.5 MCA
AC 6-B	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	14.6	30A/3P/3R	SEE PLAN	8.1 MCA
AC 7-B	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	14.6	30A/3P/3R	SEE PLAN	8.1 MCA
PE W-C	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	6.3	3ØA/3P/3R	SEE PLAN	3.5 MCA
PE II-C	48ØV/3PH	3/4"C, 4 #10, 1 #10 GND.	14.6	30A/3P/3R	SEE PLAN	8.1 MCA
PE 12-C	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	14.6	3ØA/3P/3R	SEE PLAN	8.1 MCA
PE 1-D	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	1Ø.1	3ØA/3P/3R	SEE PLAN	5.6 MCA
PE 2-D	48ØV/3PH	3/4"C, 4 #10, 1 #10 GND.	1Ø.1	30A/3P/3R	SEE PLAN	5.6 MCA
PE 3-D	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	14.6	3ØA/3P/3R	SEE PLAN	8.1 MCA
PE 4-D	48ØV/3PH	3/4"C. 4 #10, 1 #10 GND.	14.6	3ØA/3P/3R	SEE PLAN	8.1 MCA
PE 1-E	48ØV/3PH	3/4"C. 4 #12, 1 #12 GND.	6.3	3ØA/3P/3R	SEE PLAN	3.5 MCA
PE 2-E	48ØV/3PH	3/4"C. 4 #12, 1 #12 GND.	6.3	30A/3P/3R	SEE PLAN	3.5 MCA

	M	ECHANICAL	EQUIF	PMENT S	SCHED	UL	. <b>E</b>	
MARK	VOLTAGE/ PHASE	CONDUIT/ WIRE	FUSE	DISC. SWITCH	H PANEL		REMARKS	
AC I-A	48ØV/3PH	1"C. 4 #6, 1 #10 GND.	50	60A/3P/3R	EXISTING	42	MCA	(1
AC 2-A	48ØV/3PH	EXISTING	45	60A/3P/3R	EXISTING	33	MCA	(1
AC 1-B	48ØV/3PH	EXISTING	25	3ØA/3P/3R	EXISTING	22	MCA	(1
AC 2-B	48ØV/3PH	EXISTING	25	3ØA/3P/3R	EXISTING	22	MCA	(1
(AC) 3-B	48ØV/3PH	EXISTING	25	3ØA/3P/3R	EXISTING	22	MCA	(1
AC 4-B	48ØV/3PH	EXISTING	25	3ØA/3P/3R	EXISTING	22	MCA	(1
AC 5-B	48ØV/3PH	EXISTING	2Ø	3ØA/3P/3R	EXISTING	14	MCA	
AC 6-B	48ØV/3PH	EXISTING	45	60A/3P/3R	EXISTING	33	MCA	(1
AC 1-B	48ØV/3PH	EXISTING	45	60A/3P/3R	EXISTING	33	MCA	(1
(AC)	48ØY/3PH	EXISTING	2Ø	30A/3P/3R	EXISTING	18	MCA	(1
AC 2-C	48ØY/3PH	EXISTING	2Ø	30A/3P/3R	EXISTING	18	MCA	
AC 3-C	48ØY/3PH	EXISTING	20	30A/3P/3R	EXISTING	14	MCA	
AC 4-C	48ØY/3PH	EXISTING	20	3ØA/3P/3R	EXISTING	14	MCA	
AC 5-C	48ØY/3PH	EXISTING	20	3ØA/3P/3R	EXISTING	14	MCA	
AC 6-C	48ØV/3PH	EXISTING	2Ø	30A/3P/3R	EXISTING	14	MCA	
AC 71-C	48ØV/3PH	EXISTING	20	3ØA/3P/3R	EXISTING	14	MCA	
AC 8-C	48ØY/3PH	EXISTING	20	30A/3P/3R	EXISTING	14	MCA	
AC 9-C	48ØV/3PH	EXISTING	20	30A/3P/3R	EXISTING	14	MCA	
AC W-C	48ØV/3PH	EXISTING	25	30A/3P/3R	EXISTING	20	MCA	(1
AC II-C	48ØY/3PH	EXISTING	40	60A/3P/3R	EXISTING	3Ø	MCA	(1
AC 12-C	48ØY/3PH	EXISTING	40	60A/3P/3R	EXISTING	3Ø	MCA	(1
AC 1-D	48ØV/3PH	EXISTING	25	30A/3P/3R	EXISTING	22	MCA	(1
AC 2-D	48ØV/3PH	EXISTING	25	3ØA/3P/3R	EXISTING	22	MCA	(1
AC 3-D	48ØY/3PH	1"C. 4 #6, 1 #10 GND.	5Ø	60A/3P/3R	EXISTING	42	МСА	(1
AC 4-D	48ØY/3PH	1"C. 4 #6, 1 #10 GND.	50	60A/3P/3R	EXISTING	42	МСА	(1
AC 1-E	48ØY/3PH	EXISTING	25	3ØA/3P/3R	EXISTING	22	МСА	
AC 2-E	48ØV/3PH	EXISTING	25	3ØA/3P/3R	EXISTING	22	МСА	
AC 3-E	48ØV/3PH	EXISTING	20	3ØA/3P/3R	EXISTING	14	МСА	
AC 4-E	48ØV/3PH	EXISTING	20	30A/3P/3R	EXISTING	14	МСА	
AC 5-E	48ØY/3PH	EXISTING	20	3ØA/3P/3R	EXISTING	14	МСА	
AC 6-E	48ØV/3PH	EXISTING	2Ø	30A/3P/3R	EXISTING	14	MCA	

#### KEY NOTES:

EXISTING DUCT SMOKE DETECTOR TO BE DISCONNECT AND REMOVED FROM EXISTING FIRE U ALARM CIRCUIT. PROTECT DETECTOR AND EXISTING WIRING IN PLACE. TEMPORARILY EXTEND EXISTING CIRCUIT FROM THE LAST ACTIVE DEVICE TO THE NEXT ACTIVE DEVICE TO MAINTAIN FIRE ALARM CIRCUIT CONTINUITY. TEST TO ENSURE PROPER FUNCTIONALITY. RE-INSTALL DUCT SMOKE DETECTOR IN DUCT WORK WHEN DUCT WORK IS COMPLETED AND NEW UNIT IS SET AND EXTEND EXISTING WIRING TO NEW UNIT FOR UNIT SHUT OFF AS REQUIRED. RE-TEST FIRE ALARM SYSTEM UPON COMPLETION OF FIRE ALARM WORK. EXISTING DUCT SMOKE DETECTOR: NOTIFIER #DNR. CSFM LISTING #3240-1653:0209

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-119844 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹



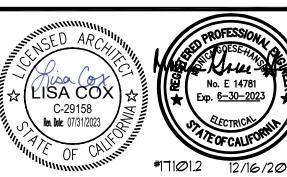
SOUTHERN CALIFORNIA 8163 ROCHESTER AVENUE, SUITE 100 RANCHO CUCAMONGA CALIFORNIA 91730-0729

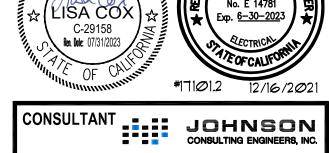
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NO	DATE	BY	DESCRIPTION				
<b>A</b>	REVISIONS						

DRAWN:	CHECKED:			
<b>DATE</b> : 03/10/2021	SCALE:			
PROJECT NUMBER: 1726300				

**MECHANICAL EQUIPMENT SCHEDULES** 

DRAWING NUMBER: **E-6.6**