## TITLE 24 MECHANICAL & PLUMBING REQUIREMENTS (CODE REFERENCES ARE TO 2019 BUILDING ENERGY **EFFICIENCY STANDARDS):**

- 1. All air cooled HVAC units shall have minimum efficiencies per Table 110.2-A.
- 2. All furnaces shall have minimum efficiencies per Table 110.2-J.
- 3. All furnaces shall have stand by loss controls per section 110.2 (d). 4. All thermostats shall comply with 110 (b) or (c), as applicable.
- 5. All HVAC systems shall have outside (ventilation) air per 120.1 (b) 2. Also see mechanical plans for
- minimum outside air settings. Refer to table on plan. 6. When CO2 ventilation demand controls are specified, provide in accordance with 120.1 C. 4.
- . Minimum ventilation rates shall be initiated one hour prior to scheduled occupancy per 120.1 (c) 2.
- 8. Each HVAC system shall have shut-off and reset controls complying with 120.2 (e). 9. All outside and exhaust dampers shall automatically close per 120.2 (f).
- 10. All systems greater than a nominal 54 MBH cooling capacity shall have economizers equipped with
- fault detection and diagnostics per 120.2 (i). 11. All ductwork insulation shall comply with 120.4.
- 12. Set up all thermostats with a dead band of no less than three degrees to prevent cycling between heating and cooling.
- 13. Acceptance tests required prior to granting occupancy. NA refers to Non Residential appendices: Outdoor air ventilation systems per NA 7.5.1.
- Constant volume single zone system controls per NA 7.5.2.
- Air economizers per NA 7.5.4.
- Demand control (CO2) controls, when required, per NA 7.5.5. • Fault Detection & diagnostics (FDD) per NA 7.5.11.

## **Equipment Anchorage Notes:**

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.

restrained in a manner approved by DSA.

- 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 volt receptacles having a flexible cable. 3. Temporary, moveable or mobile equipment which is heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be
- 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
- A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the

connections must allow movement in both transverse and longitudinal directions:

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 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 Section 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 pre-approved 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):

PP ☐ E ☐ #Tolco/B-line OPM-052.

**Option 1:** Detailed on the approved drawings with project specific notes and details MP ☐ MD ☑ Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#)

## Codes:

California Code of Regulations (C.C.R) Part 1 - 2022 California Standards Administrative Code, Title 24, C.C.R.

Part 2 - 2019 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-3.

Part 3 - 2019 California Electrical Code, Title 24, C.C.R.

Part 4 - 2019 California Mechanical Code (C.M.C.), Title 24, C.C.R. Part 5 - 2019 California Plumbing Code (C.P.C.), Title 24, C.C.R.

Part 6 - 2019 California Energy Code, Title 24, C.C.R. Part 9 - 2019 California Fire Code, Title 24, C.C.R.

Part 11 - 2019 California Green Code, Title 24, C.C.R.

## Standards and Guides:

ADAAG - American with Disabilities Act, Accessibility Guidelines. Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2019 Edition.

## Air Conditioning Legend

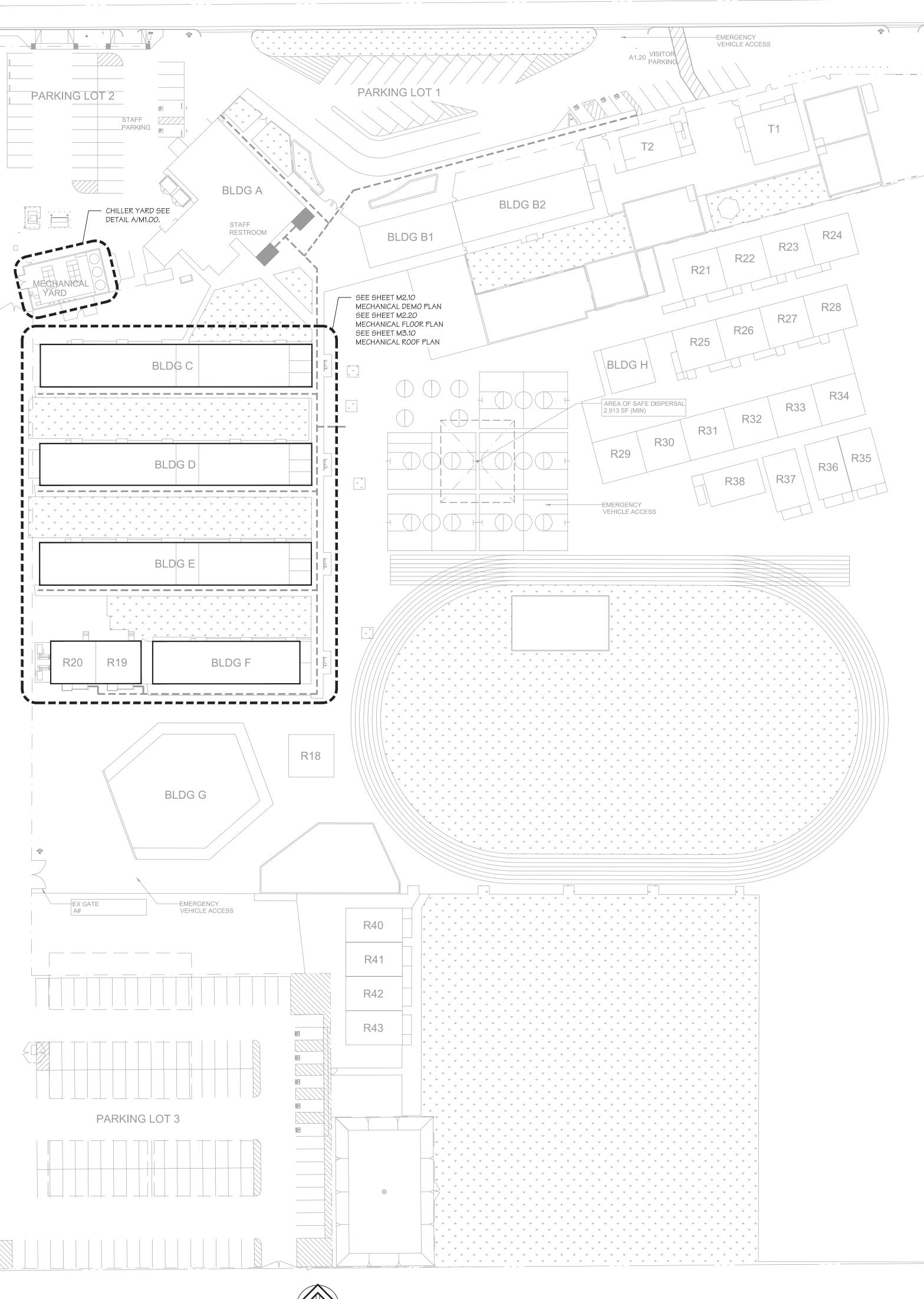
	7 til Collattioning Legena					
SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM	
	A.C. A.D. A.F.F. A.H. B.A.S.	Air Conditioning Access Door Above Finished Floor Air Handler Building Automation System		H.W.R. H.W.S. INT. LOC. M.O.	Heating Water Return Heating Water Supply Internal Location Motor Operated	
	B.V. C.D. C.E. C.W.R. C.W.S. C.H.W.R. C.H.W.R.	Butterfly Valve Condensate Drain Ceiling Exhaust Register Condensor Water Return Condensor Water Supply Chilled/Hot Water Return Chilled/Hot Water Supply	<del></del>	(N) N.C. N.I.C. N.O. O.S.A. O.B.D. P.O.C.	New Normally Closed Not in Contract Normally Open Outside Air Opposed Blade Damper Point of Connection	
	COMB. CONN. CONT. C.R. CLG. C.S. C.Y. D.C.W.	Combustion Connection Continuation Ceiling Return Register Ceiling Ceiling Supply Register Check Valve Domestic Cold Water	<b>4</b> 9.F.D.	P.P PROV. P.R.V. SIM. S.F.D. S.M. or S/M	Petes Plug Provide Pressure Reducing Valve Similar Smoke / Fire Damper W/ access panel Sheet Metal Shut Off Valve	
<u> </u>	DIA. D.L. DN. D.P.D.T. D.T.R. (E)	Diameter Door Louver Down Double Pole Double Throw Duct Thru Roof Existing	①	9.P.9.T. 9TAT 9URF. (TYP) U.G. U.N.O.	Single Pole Single Throw Thermostat or Room Sensor Surface Typical Underground Unless Noted Otherwise	
—-— <b>▲</b> F.D.	E.F. E.M.S. EX. F.D. Flex. Conn FLR.	Exhaust Fan Energy Management System Exhaust Fire Damper w/ acc. panel Flexible Connection Floor		V.D. V.D. W/ W.R. W.S.	Volume Damper Vol. Damper w/ Remote Operator With Wall Return Register Wall Supply Register Duct w/ Acoustic Lining	
M	F.T.R. Furn. GA. GAL. GALV. G.P.M. GRD.	Flue Thru Roof Furnace Gauge Gallon Galvanized Gallono per Minute Grade Gate Valve	0	T.V.	Turning Vanes Extractor  CO2 SENSOR  Union Reducer or Increaser	

### General Project Note:

Coordination of work: Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual location of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned, prior to installation of any work to avoid all interferences with each other, or with structural, electrical, architectural or other elements. Verify the proper voltage and phase of all equipment with the electrical plans. All conflicts shall be called to the attention of the architect and the engineer prior to the installation of any work or the ordering of any equipment.

Cutting, boring, saw cutting or drilling through the new or existing structural elements to be done only when so detailed in the drawings or accepted by the Architect and Structural engineer with the approval of DSA representative.

### TEXAS STREET



### **EQUIPMENT SCHEDULE**



Carrier 50GCQM06 Rooftop Heat Pump, 1,800 CFM @ 0.60 E.S.P., 0.66 BHP direct drive supply fan drive vane-axial fan with electrically commutated motor, 1,200 CFM low speed (staged air volume), 61,300 BTUH total / 46,320 sensible gross cooling / 54,860 heating capacity / 16.2 SEER / 11.7 EER / 8.3 HSPF at ARI conditions. Two stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. (4) 16" x 16" x 2" MERV 13 return air filters, 5.5 kW electric strip heater factory mounted and wired, single point power connection for heat pump and strip heater. Integrated modulating economizer with dry bulb control, fault diagnostics and detection per T24 regulations, modulating power exhaust fan module, demand control ventilation package with wall mounted CO2 sensor set to 1000 ppm. Adjust outside airflow to modulate between hi-low settings per O.A. schedule on plans. Include information on both settings in air balance report. Provide sperate power feed and disconnect for economizer power exhaust fan. Sloped roof curb with seismic hold down clips, internal high and low compressor protection.

Electrical: Operating Weight: 26 MCA / 30 MOCP @ 460v-3ph. (HP Unit) Unit and Accessories: 816 Lb

1.9 MCA / 3.4 MOCP @ 460v-3ph. (Power Exhaust)



3.5 MCA / 6.3 MOCP @ 460v-3ph. (Power Exhaust)

Carrier 50VT-C24 Rooftop Heat Pump, 700 CFM @ 0.40 E.S.P., 0.38 BHP direct drive supply fan motor, 22,620 BTUH total / 16,730 sensible net cooling / 22,380 heating capacity / 14.5 SEER / 8.2 HSPF at ARI conditions. Single stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. 2" Deep MERV 13 return air filters in factory filter rack, 3.8 kW electric strip heater, factory mounted and wired, single point power connection for heat pump and strip heater. Motorized two-position outside air damper. Sloped roof curb with seismic hold down clips internal high and low compressor protection.

Operating Weight: 43.9 MCA / 45 MOCP @ 208v-1ph. (HP Unit) Unit and Accessories: 326 Lbs.

Carrier 50FCQM07 Rooftop Heat Pump, 2,100 CFM @ 0.60 E.S.P., 0.83 direct drive supply fan drive vane-axial fan with electrically commutated motor, 1,400 CFM low speed (staged air volume), 73,450 BTUH total / 55,300 sensible gross cooling / 63,550 heating capacity / 11.2 EER / 15.0 IEER / 3.6 COP at ARI conditions. Two stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. (4) 16" x 16" x 2" MERV 13 return air filters, 5.5 kW electric strip heater factory mounted and wired, single point power connection for heat pump and strip heater. Integrated modulating economizer with dry bulb control, fault diagnostics and detection per T24 regulations, modulating power exhaust fan module, demand control ventilation package with wall mounted CO2 sensor set to 1000 ppm. Adjust outside airflow to modulate between hi-low settings per O.A. schedule on plans. Include information on both settings in air balance report. Provide sperate power feed and disconnect for economizer power exhaust fan. Sloped roof curb with seismic hold down clips, internal high and low compressor protection.

Electrical: Operating Weight: Unit and Accessories: 809 Lbs. 23 MCA / 25 MOCP @ 460v-3ph. (HP Unit)

Greenheck CUE-095-VG Centrifugal Upblast Roof Mounted Exhaust Fan. 250 CFM @ 0.50" E.S.P., 1319 RPM, .06 BHP, 6.7 sones, 1/6 HP direct drive ECM motor. Provide with

sloped roof curb, backdraft damper, dial on motor for balancing, bird screen, and NEMA-1 toggle switch. Interlock fan operation with Pelican EMS system. See detail F/M4.10. Electrical: 1/6 HP @ 115v-1ph. Operating Weight: 36 Lbs.

Greenheck SPA-50-90-VG Ceiling Mounted Exhaust Fan. 90 CFM @ 0.20" E.S.P., 887 RPM, 6 watts ECM motor, 0.7 sones. Provide with backdraft damper, full size discharge to roof cap, and NEMA-1 toggle switch. Interlock fan operation with light circuit. Dial on fan speed control with time delay set to fifteen minutes. Electrical: 6 Watts @ 115v-1ph. Operating Weight: 12 Lbs.



Greenheck CUE-160-VG Centrifugal Roof Mounted Power Exhaust Fan. 1,800 CFM @ 0.40" E.S.P., 844 RPM, .23 BHP, 1/2 HP direct drive ECM motor, Vari-Green constant Electrical: 1/2 HP @ 115v-1ph. Operating Weight: 80 Lbs.

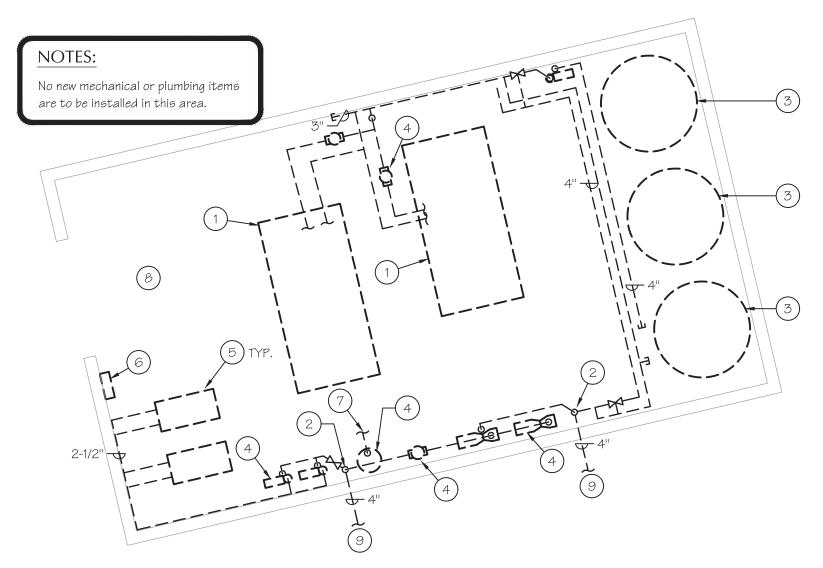
DIFFUSER SIZING CHART				
CFM	TITUS MCD, SQUARE NECK	CFM	TITUS TDC, SQUARE NECK	
0 - 200	6" × 6"	0 - 150	6" × 6"	
201 - 325	8" × 8"	151 - 275	9" × 9"	
326 - 450	10" × 10"	276 - 475	2" ×  2"	
45I <i>- 600</i>	12" × 12"	476 - 700	15" × 15"	
601 - 700	14" × 14"	701 - 950	18" × 18"	
701 - 850	16" × 16"	951 - 1250	21" × 21"	
851 - 950	18" × 18"	1251 - 1700	24" × 24"	
	1			

## **GRILLE SCHEDULE**

Titus Model TDC Louvered Face Diffuser with T-Bar mount frame and O.B.D. See diffuser sizing chart for neck sizes. CR-1 & CE-2

Titus Model 50F eggcrate T-Bar mount return grille. CR-2 & CE-3 Titus Model 35RL, surface mount.

Titus Model 35RL, 35 degree deflection, surface mounting frame, O.B.D. Note: Paint all visible surfaces behind diffusers and grilles flat black.



## CHILLER YARD DEMO PLAN

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

CENTRAL PLANT DEMOLITION KEYNOTES:

1.) Remove existing chillers, all chilled water piping, hangers, supports, etc.

(2.) Cap all mechanical piping at 1" above grade.

3) Remove existing thermal storage tanks, all piping supports, etc. 4) Remove all existing pumps, expansion tanks, pot feeder, supports, accessories, etc.

Remove existing EMS panel, all related conduits, wiring, controls, etc.

Remove existing boiler, all hot water piping, supports, etc.

7.) Demo back domestic CW pipe back to branch take-off and cap. 8) Note: Entire central plant yard shall be made free of all mechanical, plumbing, electrical, and

control items related to items being removed. Confirm exact details based on field conditions. Existing site mech. piuping abandoned in place.



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3434 Truxtun Avenue . Suite 240 Bakersfield . California . 93301 tel | 661.327.1690 | fax | 661.327.7204 | web|www.aparchitects.net|

Curb: 65 Lbs.

Curb: 107 Lbs.

# CAMPUS HVAC

Fremont Magnet

Elementary School

607 Texas St. Bakersfield. CA. 93307 Bakersfield City School District

ARCHITECT



CONSULTANT



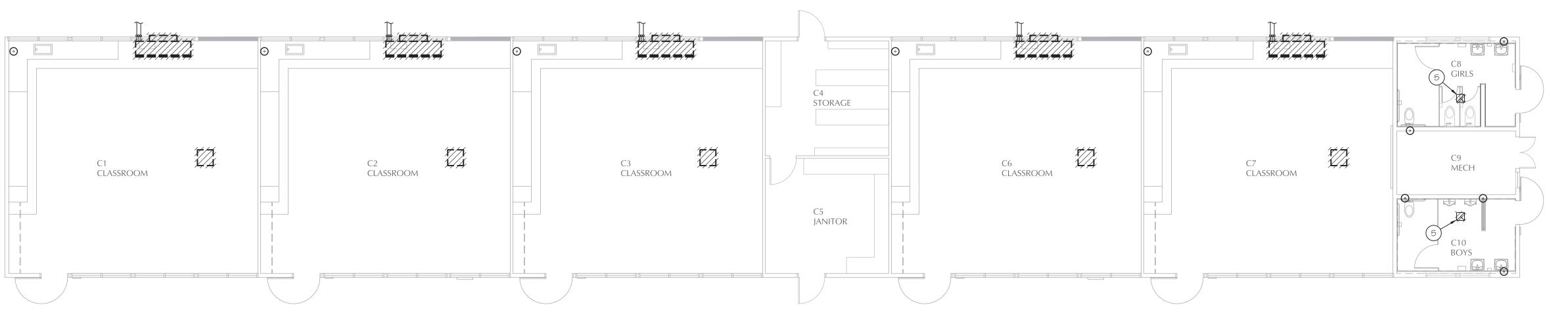
PROJECT INFO

11100201 1111 0	
Project No	566-0018
Date	09.14.22
DSA File No	15-6
DSA No	03-122640

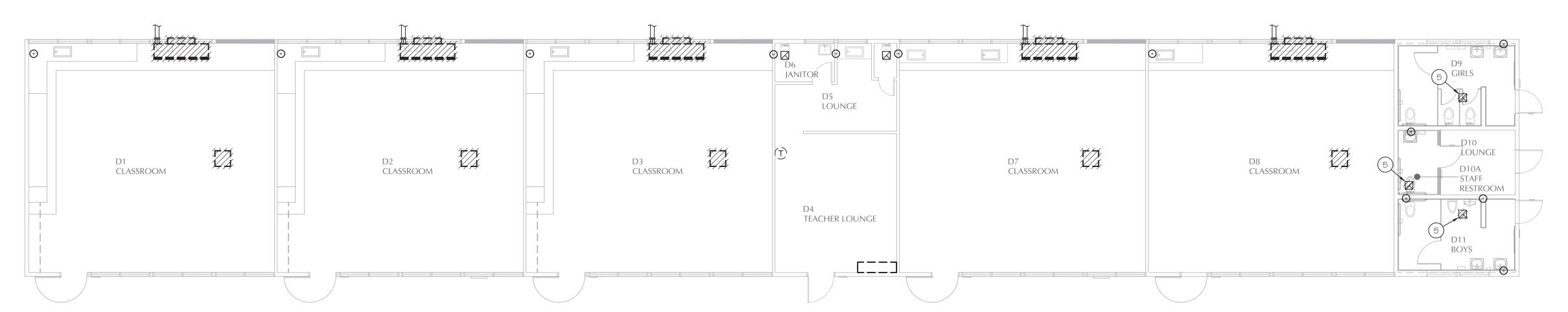
REVISIONS 00.00.08 DESCRIPTION

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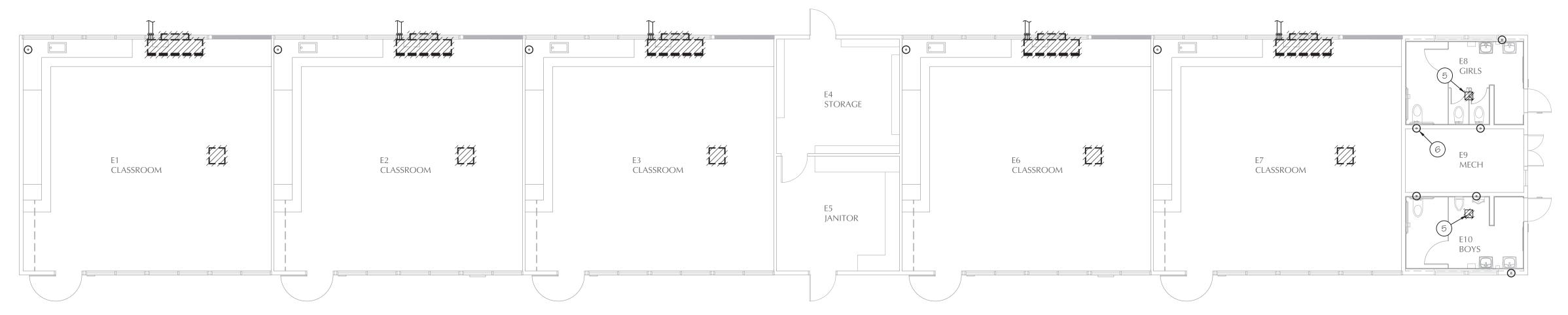
> MECHANICAL SITE PLAN, SCHEDULE, AND NOTES



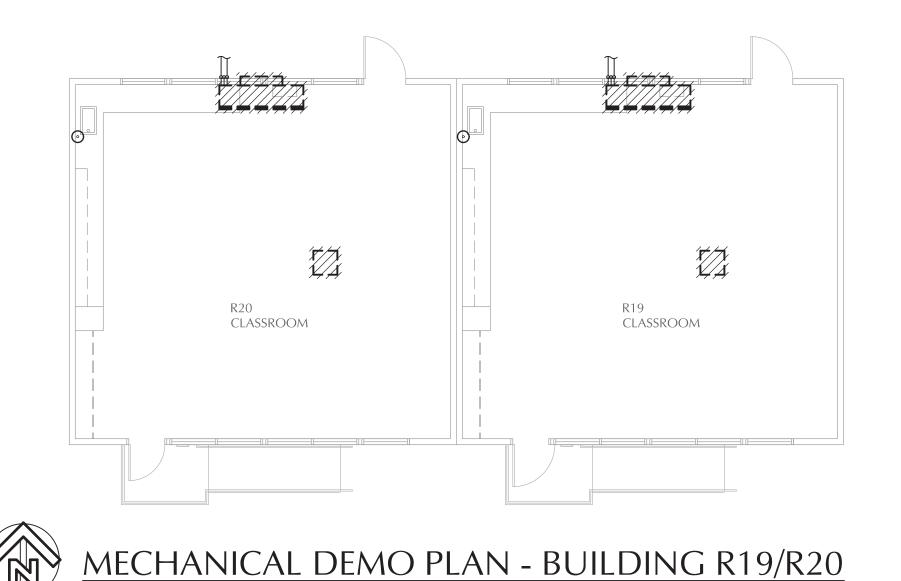
# MECHANICAL DEMO PLAN - BUILDING C SCALE: 1/8"=1'-0"

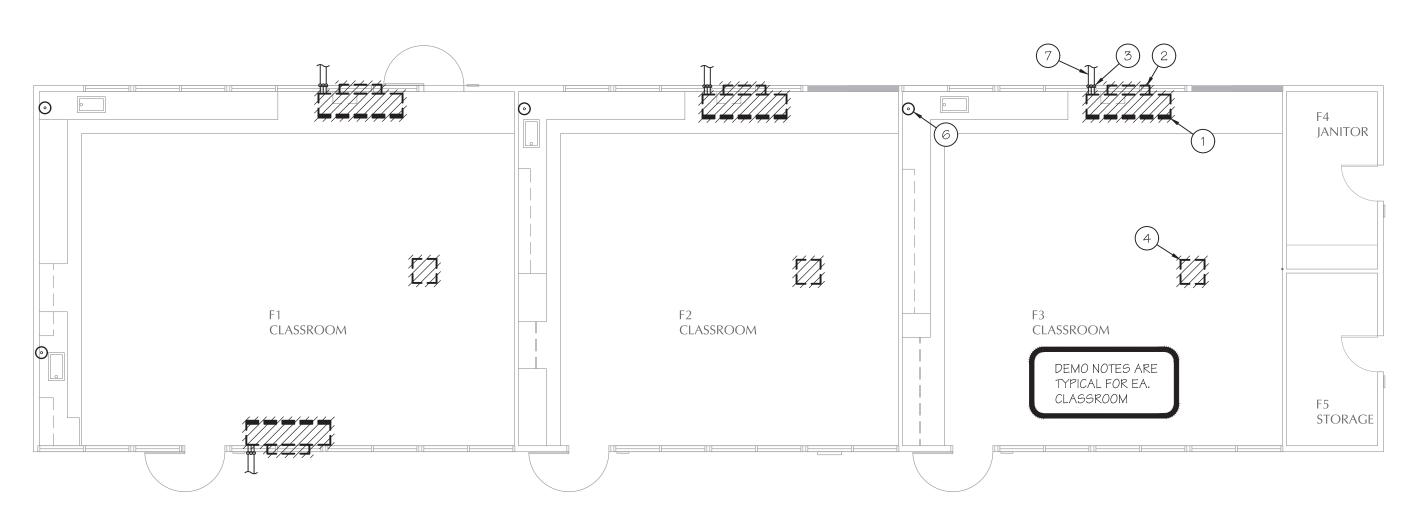












MECH SCALE: 1/8"=1'-

MECHANICAL DEMO PLAN - BUILDING F

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DIV. OF THE STATE ARCHITECT

APP: 03-122640 INC:
REVIEWED FOR
SS FLS ACS DATE: 11/09/2023



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# CAMPUS HVAC SYSTEM UPGRADE

Elementary School

607 Texas St. Bakersfield. CA. 93307
Bakersfield City School District

Fremont Magnet

ARCHITECT



CONSULTANT



PROJECT INFO

DEVISIONS	
DSA No	03-122640
DSA File No	15-6
Date	09.14.22
TOJECTNO	500-0018

REVISIONS

No Date Item

No	Date	Item
*	80.00.00	DESCRIPTION

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MECHANICAL DEMOLITION PLANS

M2.10

BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 22013
Plt: 10-05-23

1. Remove existing floor mounted unit ventilator, all related mechanical piping, condensate piping, controls, supports, anchorage, etc. Patch existing surfaces to match existing.

Remove existing hydronic and condensate piping and exterior chase. Remove piping to 12" below grade. Cap piping and abandon in place.

 $\widehat{A}$ , Remove existing gravity relief vent, roof curb, ductwork, roof cap, relief grille, etc.

2) Remove existing outside air louvers. Infill / patch wall to match existing.

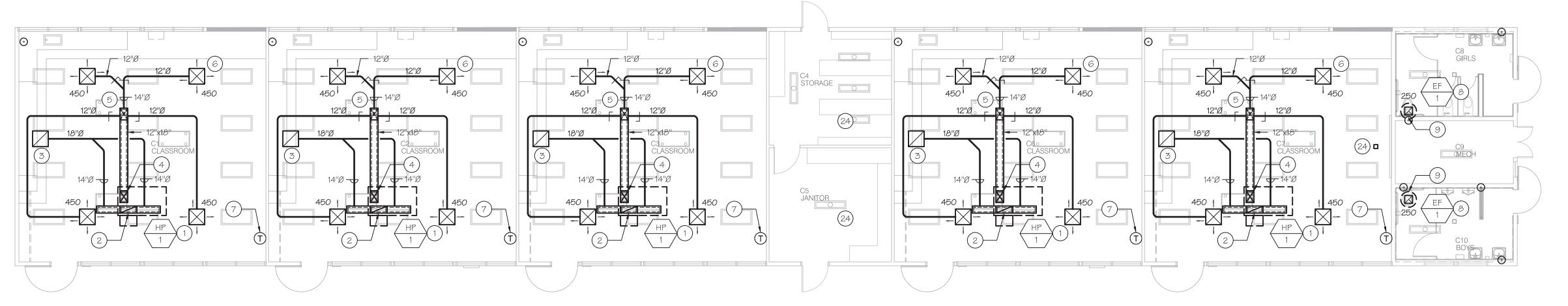
Remove existing exhaust fan, ductwork, etc.

Existing split system fan coil to remain.

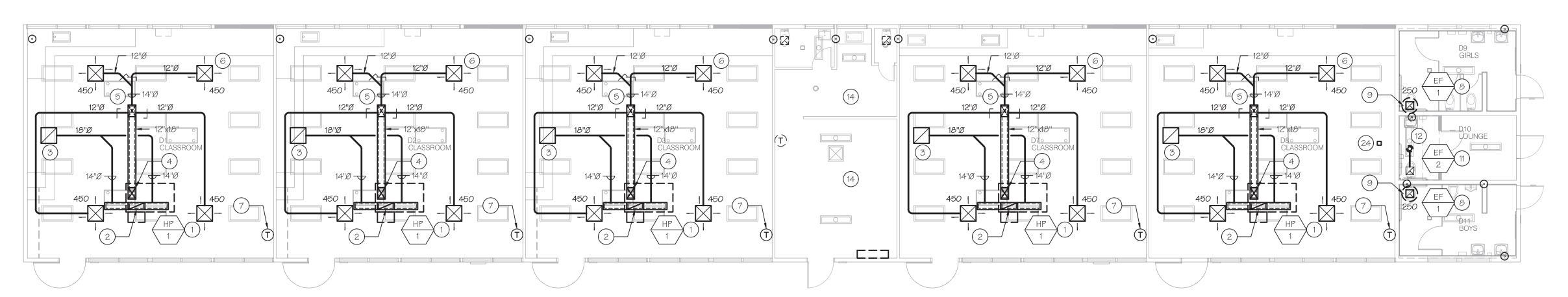
Existing exhaust fan to remain.

7. Abandon in place below grade site hydronic piping.

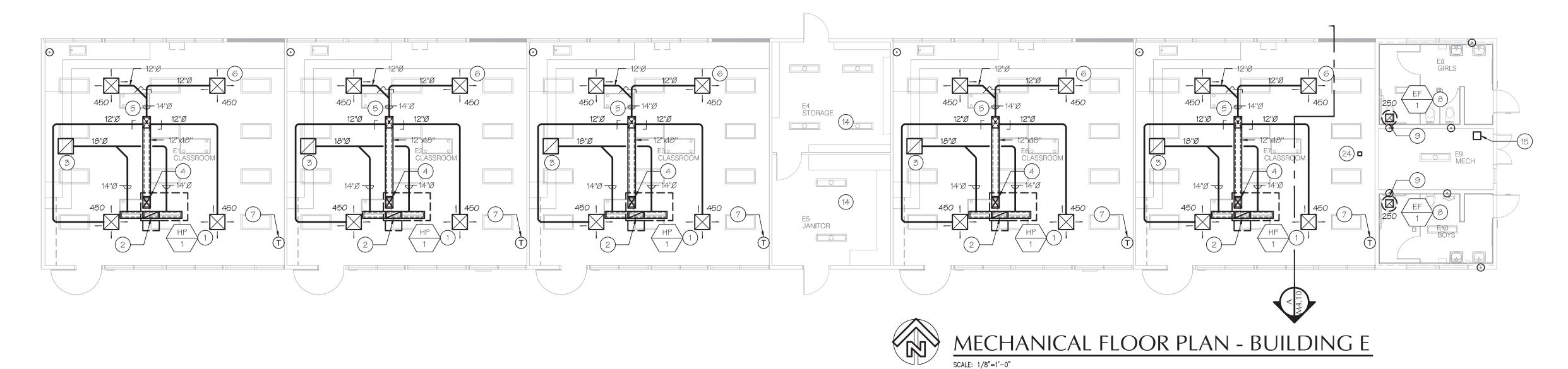
Existing waste vent, typical. Confirm exact location in field.

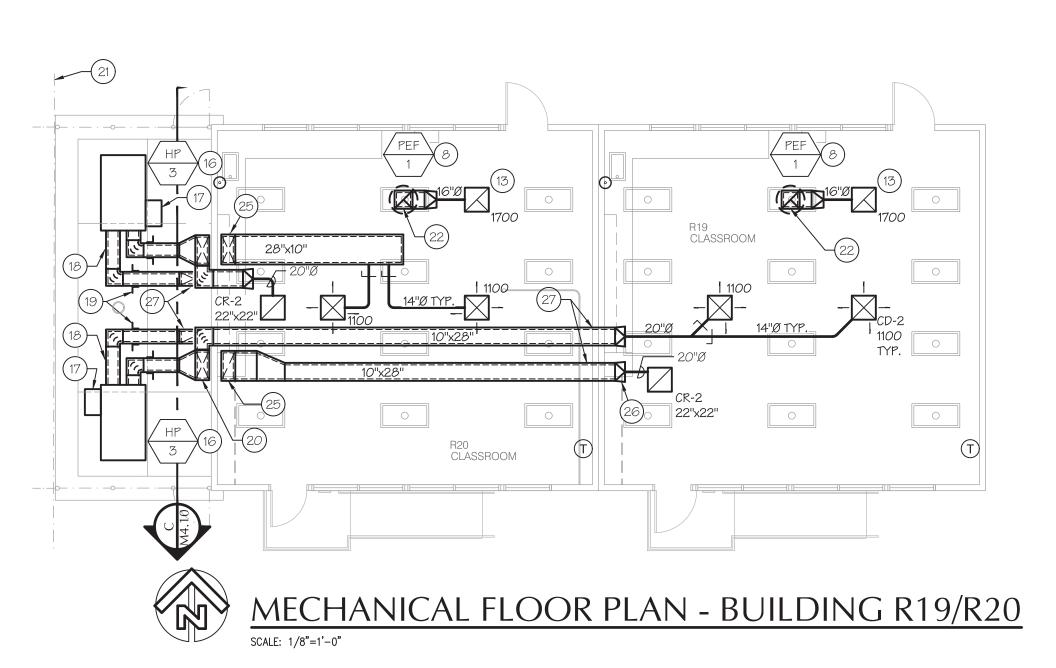


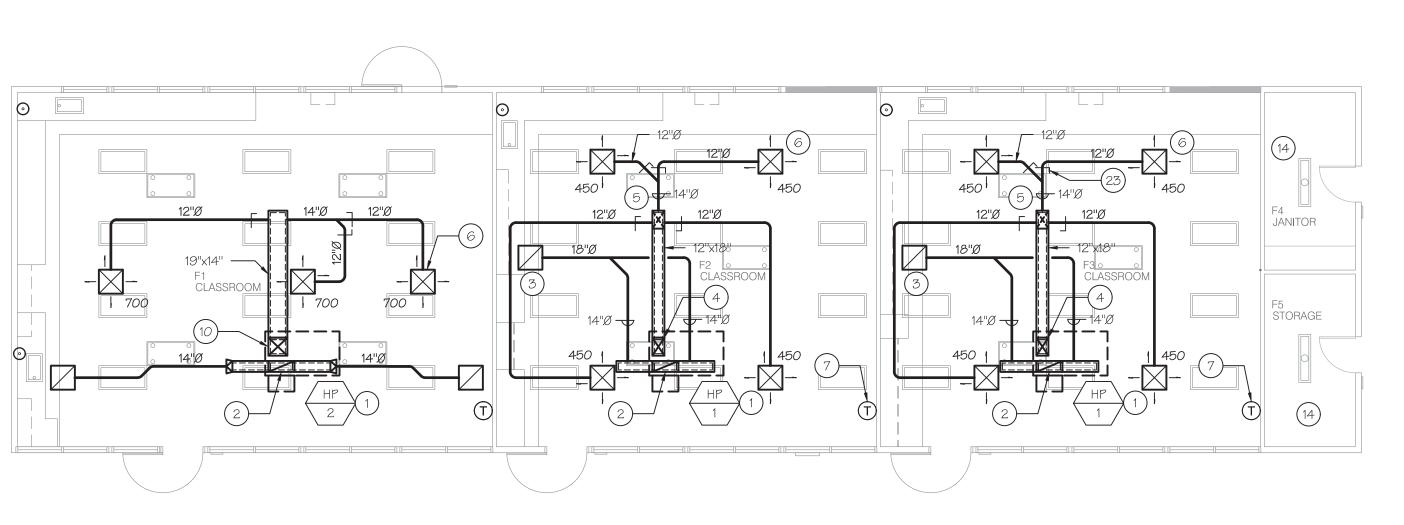
# MECHANICAL FLOOR PLAN - BUILDING C















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## CAMPUS HVAC SYSTEM UPGRADE

Elementary School

607 Texas St. Bakersfield. CA. 93307
Bakersfield City School District

Fremont Magnet

ARCHITECT



CONSULTANT



PROJECT INFO

Project No	566-0018
Date	09.14.22
DSA File No	15-6
DSA No	03-122640
REVISIONS	

REVISIONS

*	00.00.08	DESCRIPTION

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MECHANICAL FLOOR PLAN

M2.20

BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 22013
Plt: 10-05-23

MECHANICAL FLOOR PLAN KEYNOTES:

(1.) ROOF MOUNTED HP UNIT. SEE MECHANICAL ROOF PLAN.

4) 12" X 18" SUPPLY AIR DROP WITH 1" LINER, 14" x 20" NET.

8) ROOF MOUNTED EXHAUST FAN. SEE MECHANICAL ROOF PLAN.

ROUTER. PROVIDE WALL MTD. BRACKET. SEE DETAILS E&F/M4.11.

(8) 10" x 26" SUPPLY AND RETURN DUCTS WITH 2" LINER, 14" x 30" NET.

②. SUPPLY AND RETURN DUCT RISERS UP EXTERIOR WALL. SEE C/M4.10.

(5) ELBOW DOWN TO BELOW TRUSS SPACE.

(11.) CEILING EXHAUST FAN.

(21) CHAIN LINK FENCE LINE.

(13) CE-3 CEILING EXHAUST GRILLE.

CONTROL VENTILATION. SEE DETAIL D/M4.11.

(2) 6" ROUND DUCT THRU ROOF TO ROOF CAP.

(14) NO MECHANICAL WORK IN THIS ROOM.

(9) DUCT SUPPORTS. SEE DETAIL H/M4.11.

(1) 14" X 19" SUPPLY AIR DROP WITH 1" LINER, 16" x 21" NET.

(6) AC UNIT MOUNTED AT GRADE. SEE DETAIL B/M4.10.

(2). 14" x 14" EXHAUST RISER WITH 1" LINER, 16" x 16" NET.

(23). BRANCH DUCT VOLUME DAMPER, TYP. SEE DETAIL B/M4.11

(2) 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. AT BOTTOM OF RISER PROVIDE MITERED

(7) T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN TS250 WITH CO2 SENSOR AND DEMAND

9) 8" X 8" EXHAUST DUCT DROP WITH 1" LINER, 10" x 10" NET, WITH CE-1, 10" x 10" EXHAUST GRILLE.

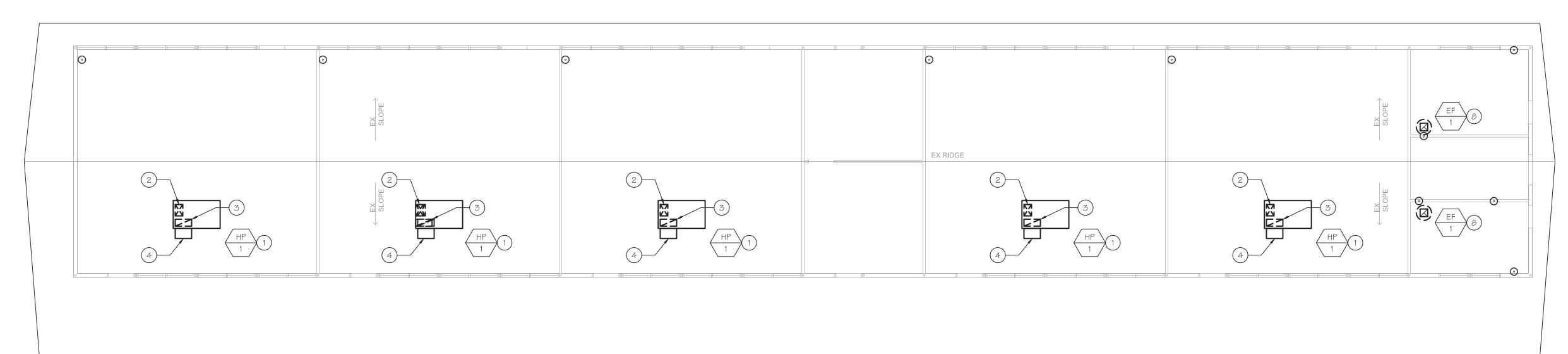
(15) PELICAN WIRELESS GATEWAY W/ 115 PLUG CONNECTED TO WALL OUTLET AND CONN. TO LOCAL

24. LOCATE RELAY MODULE FOR CONTROL OF EXHAUST FANS ABOVE CEILING. SEE DETAIL F/M4.11.

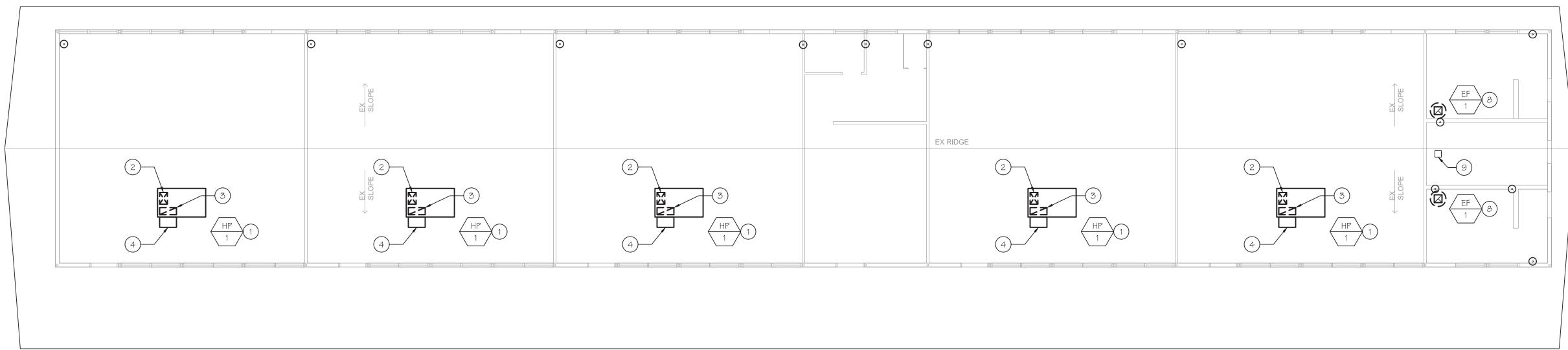
27) 10"x28" DUCTS w/2" LINER, 14"x30" NET. ROUTE THRU SHEAR WALL. LOCATE BETWEEN (E)FRAMING.

25) 10"x26" RISE FROM SOFFIT SPACE BETWEEN EXTERIOR WALL AND 2x6 CEILING JOIST, TYP.

LINED TEE FITTING WITH 11" X 14" IN EACH DIRECTION. SEE DETAIL C/M4.11.

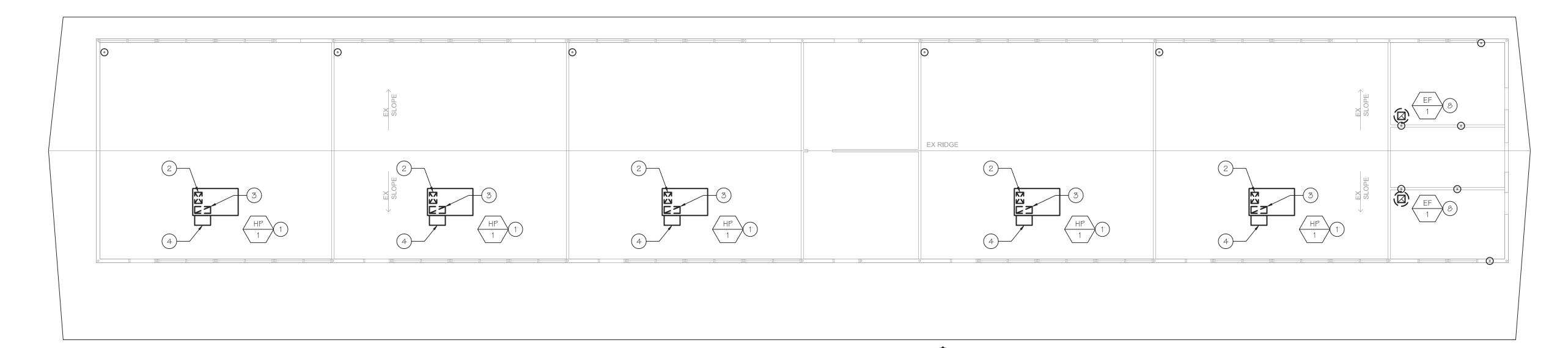


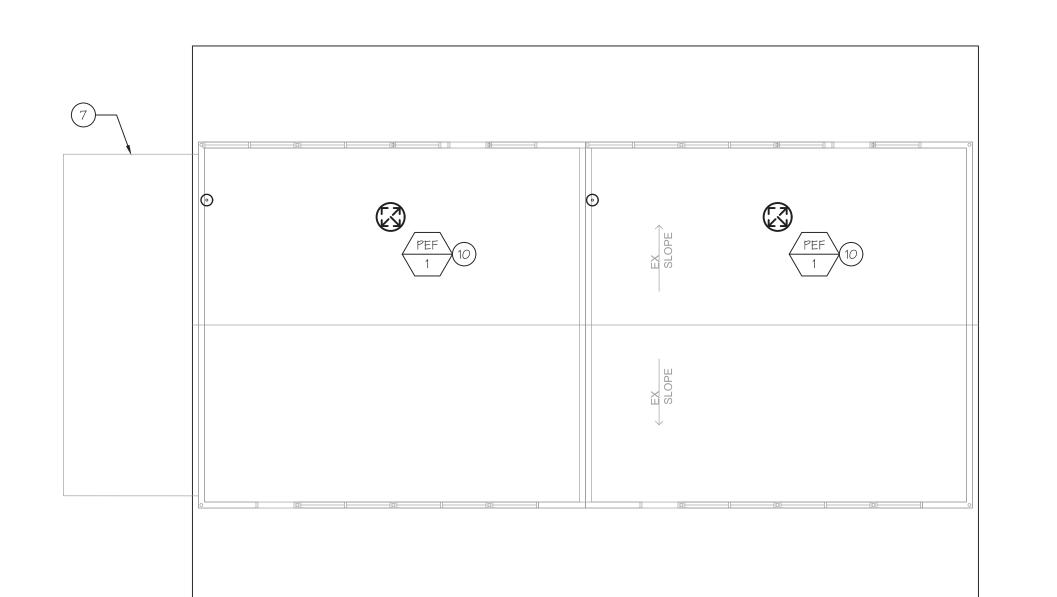


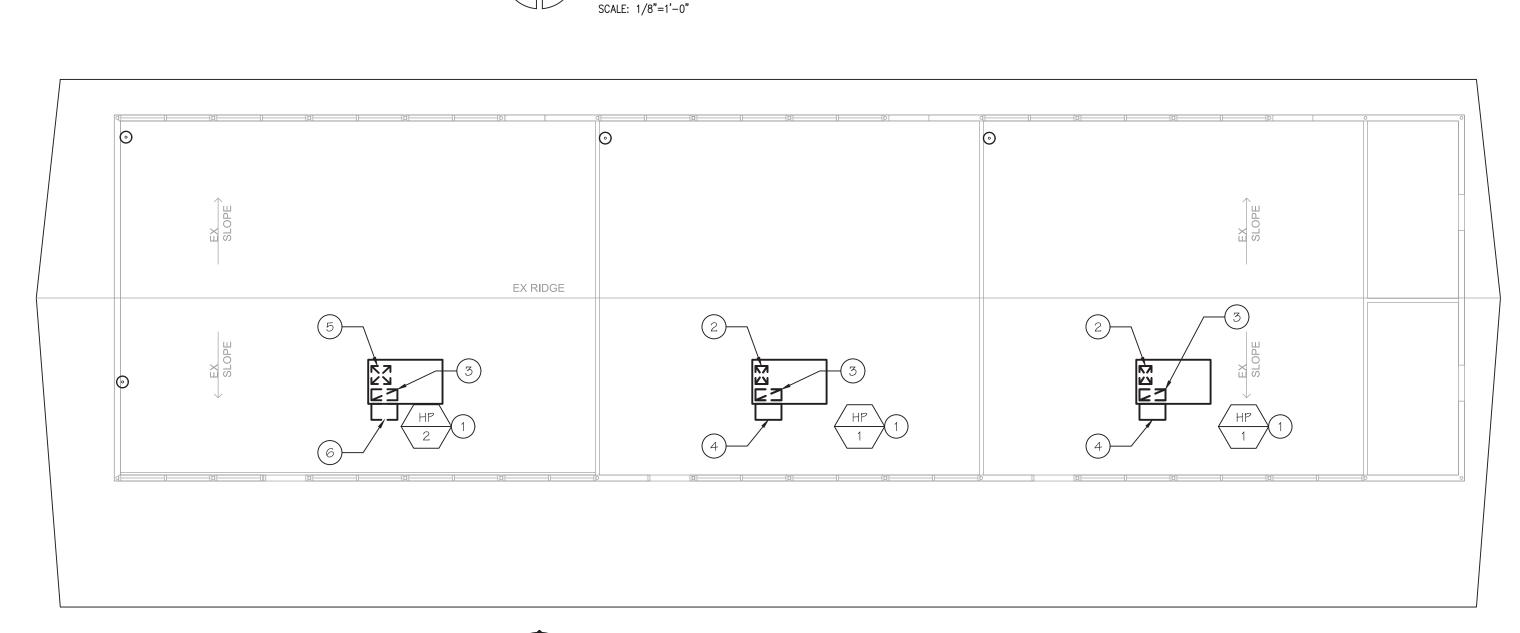




MECHANICAL ROOF PLAN - BUILDING E







MECHANICAL ROOF PLAN - BUILDING F



- 1.) NEW HP UNIT ON SLOPED ROOF CURB. SEE DETAIL A/M4.10
- 2) 12" X 18" SUPPLY DUCT DROP THRU ROOF WITH 1" LINER, 14" X 20" NET.
- 4. ECONOMIZER WITH POWER EXHAUST MODULE. SET MINIMUM OUTSIDE EQUAL TO 150 CFM WITH DEMAND CONTROL VENTILATION OVERRIDE TO 400 CFM.
- (5) 14" X 19" SUPPLY DUCT DROP THRU ROOF WITH 1" LINER, 16" X 21" NET. 6 ECONOMIZER WITH POWER EXHAUST MODULE. SET MINIMUM OUTSIDE EQUAL TO 200
- CFM WITH DEMAND CONTROL VENTILATION OVERRIDE TO 500 CFM. 7. SEE SHEET M2.20 FOR GROUND MOUNTED HP UNITS IN THIS AREA THAT SERVE
- 8) NEW ROOF MOUNTED EXHAUST FAN WITH 8" X 8" LINED EXHAUST RISER THRU ROOF, 10" X 10" NET. SEE DETAIL G/M4.11.
- 9 NEW ROOF CAP FOR CEILING EXHAUST FAN.

NEW POWER EXHAUST FAN WITH 16" X 16" LINED EXHAUST RISER, 18" X 18" NET. SEE DETAIL H/M4.11.







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## CAMPUS HVAC SYSTEM UPGRADE

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CONSULTANT



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No	Date	Item
*	00.00.08	DESCRIPTION

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MECHANICAL ROOF PLAN

SCALE: N.T.S.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122640 INC: REVIEWED FOR SS 🗸 FLS 🖟 ACS 🗸



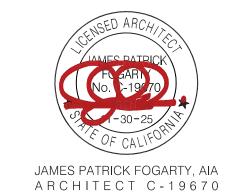
3434 Truxtun Avenue . Suite 240 Bakersfield . California . 93301 tel|661.327.1690 fax|661.327.7204 | web | www.aparchitects.net |

# CAMPUS HVAC SYSTEM UPGRADE

Fremont Magnet Elementary School

607 Texas St. Bakersfield. CA. 93307 Bakersfield City School District

ARCHITECT



CONSULTANT



PROJECT INFO

	J	000 00.0
Dat	te	09.14.22
DS	A File No	15-6
DS	A No	03-122640
	=>//010>//0	

REVISIONS No Date Item

*	00.00.08	DESCRIPTION

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MECHANICAL DETAILS AND SECTION

BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 22013
Plt: 10-05-23



3434 Truxtun Avenue . Suite 240 Bakersfield . California . 93301 tel|661.327.1690 fax|661.327.7204 | web | www.aparchitects.net |

# CAMPUS HVAC

Fremont Magnet Elementary School

607 Texas St. Bakersfield. CA. 93307 Bakersfield City School District

ARCHITECT

JAMES PATRICK FOGARTY, AIA

ARCHITECT C-19670

CONSULTANT

PROJECT INFO

566-0018 09.14.22 DSA File No 15-6 03-122640 DSA No

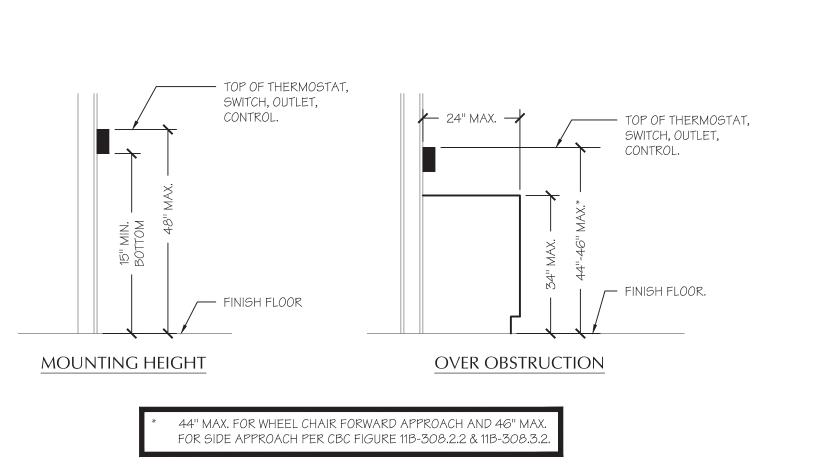
REVISIONS

Date Item 00.00.08 DESCRIPTION

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MECHANICAL DETAILS

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## THERMOSTAT MOUNTING LOCATION SCALE: N.T.S.

AC, TYPICAL

EF, TYPICAL

\_\_\_\_\_ SEE F/M4.11

LAN ARCHITECTURE

SCALE: N.T.S.

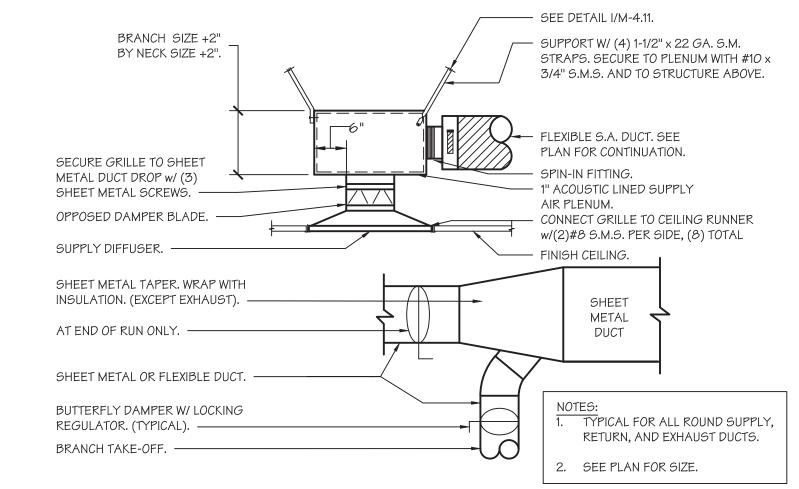


PROVIDE WIRELESS REPEATERS ON

SITE AS REQ'D TO EXTEND SIGNAL

NETWORK SWITCH

CAT 5 CABLE



- LOCATE SUPPORT WITHIN TWO FEET OF DIFFUSER.

NOTE: WHERE DUCT TURN RADIUS CAN NOT BE MAINTAINED DUE TO

— SQUARE TO ROUND FITTING AS REQ'D.

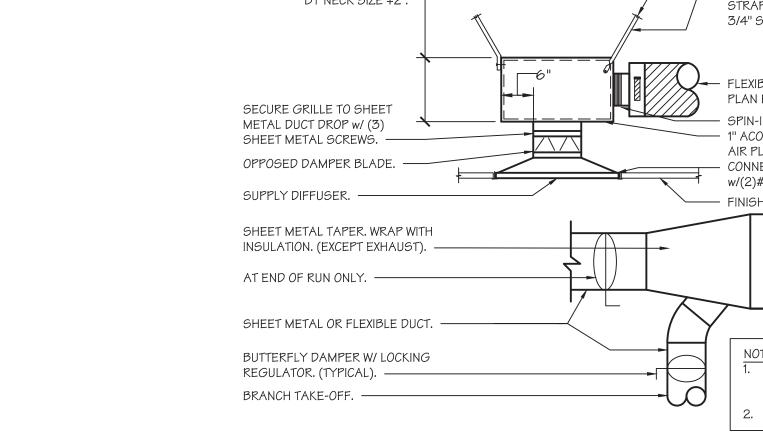
— CEILING DIFFUSER, SEE PLANS.

FINISHED CEILING, HARD OR LAY-IN.

CLEARANCES, PROVIDE PLENUM BOX PER B/M4.11, THIS SHEET.

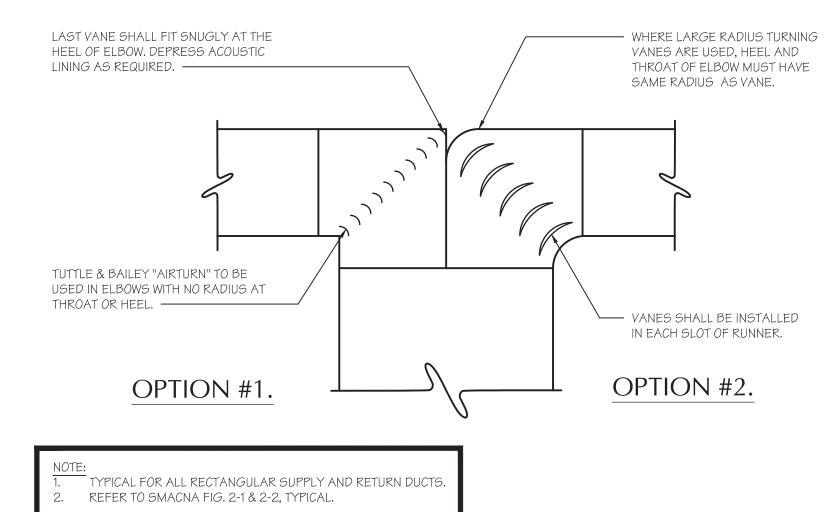
SEE DETAIL I/M4.11.

— 5 GORE RADIUSED ELBOW.

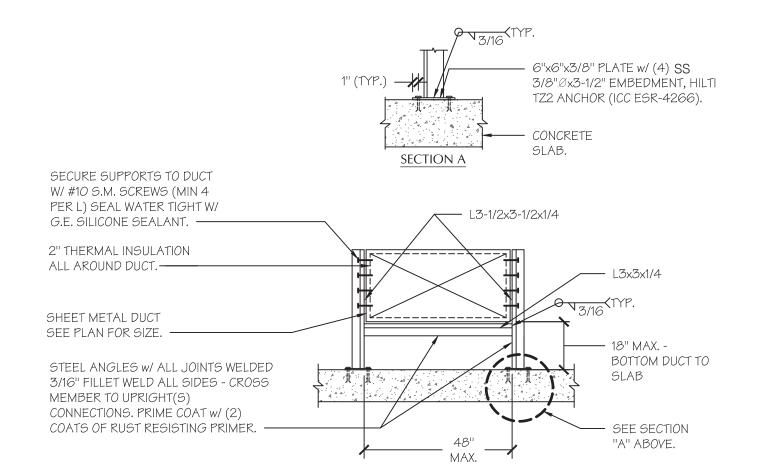


R = 1.5D(MIN.)

# SUPPLY AIR PLENUM & BRANCH TAKE-OFFS SCALE: N.T.S.



	1
NINETY DEGREE ELBOW	
SCALE: N.T.S.	



BASE OF EX. FAN ----

MIN. OF 1 PER SIDE. —

CANT STRIP ----

SCALE: N.T.S.

1/4"x2" WIDE NEOPRENE BASE GASKET,

\_\_\_\_\_ 14" MAX HT.

- WOOD NAILER.

RIGID INSULATION.

---- EXHAUST FAN

ROOF CURB.

— PROVIDE FULL PERIMETER

BLOCKING PER 9/53.01

CONTINUOUS AROUND BASE. -

#12 TEK SCREW, 24" O.C. MAX,

22 GAUGE COUNTER FLASHING.

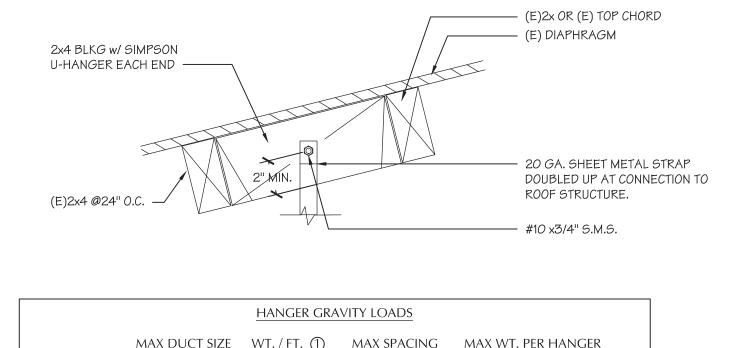
SEE STRUCTURAL DETAILS. —

ROOFING DEMO AND PATCH

EXHAUST FAN ANCHORAGE

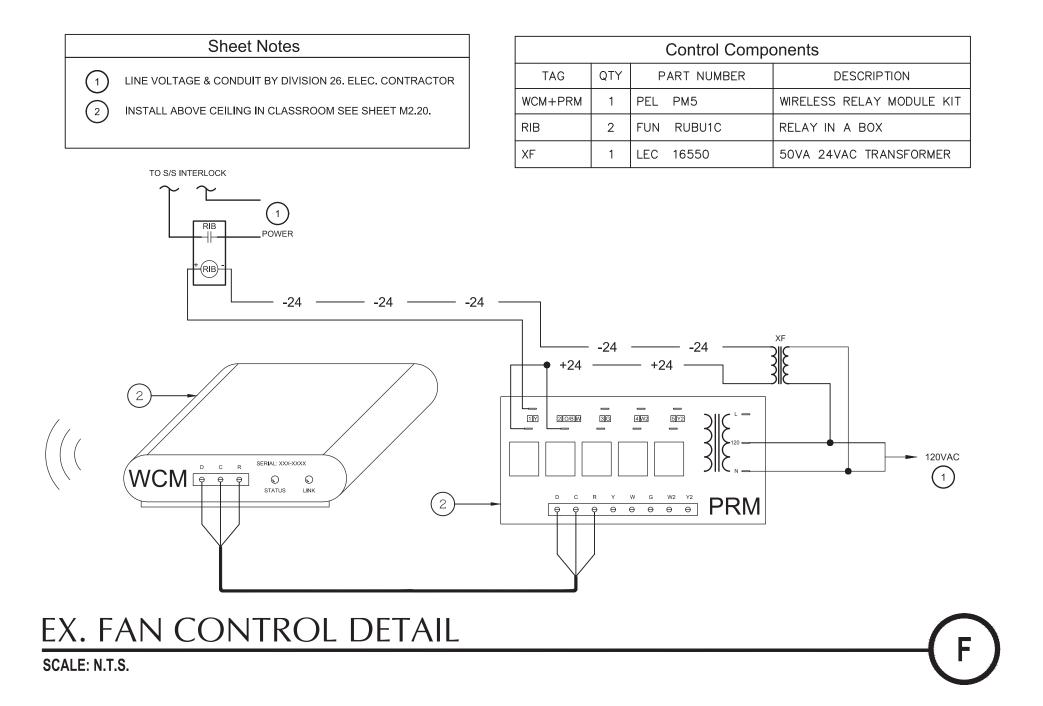
BACK TO MATCH (E). ——





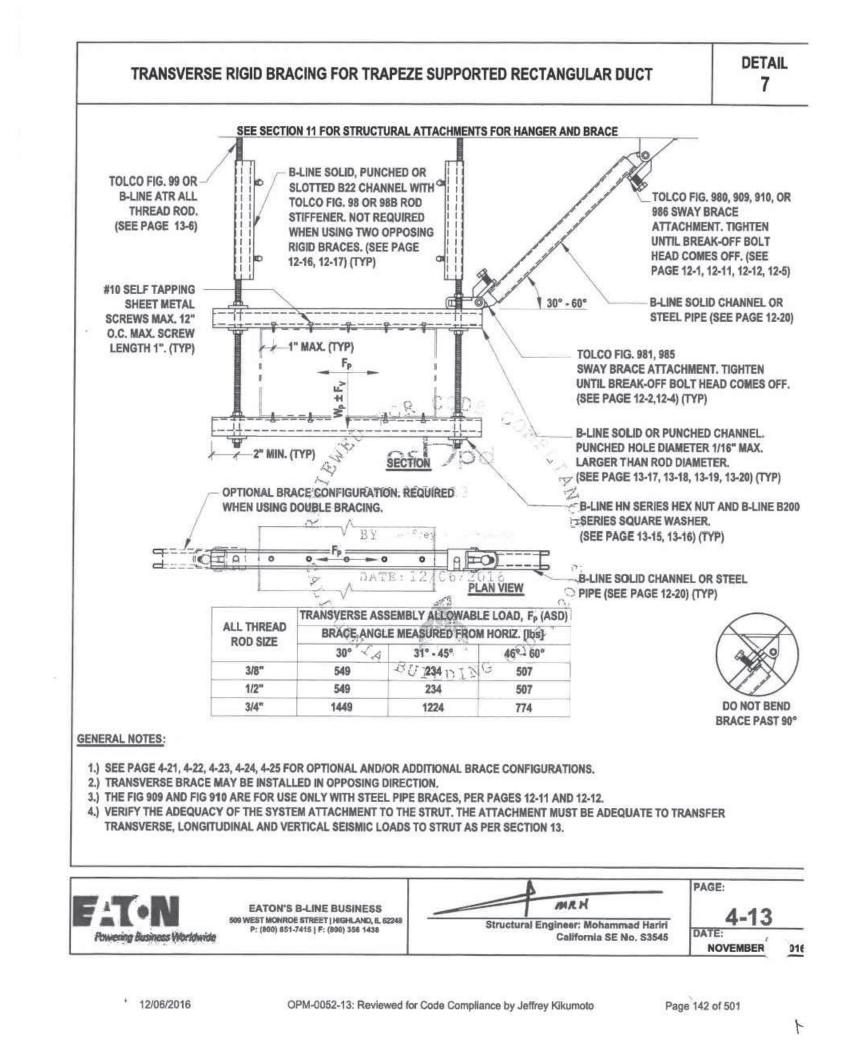
TRAPEZE	MAX DUCT SIZE	WT. / FT. (1)	MAX SPACING	MAX WT. PER HANGE
	30" X 12"	16.8 lbs.	8'-0"	67.4 lbs.
SINGLE	18Ø	8.76 lbs.	8'-0"	70.1 lbs.

	NOTE: (1) CONNECTION PER (E) JOIST (MAX)	
DUCT HANGER	R UPPER ATTACHMENT	
SCALE: N.T.S.		<b>一 (</b> リ

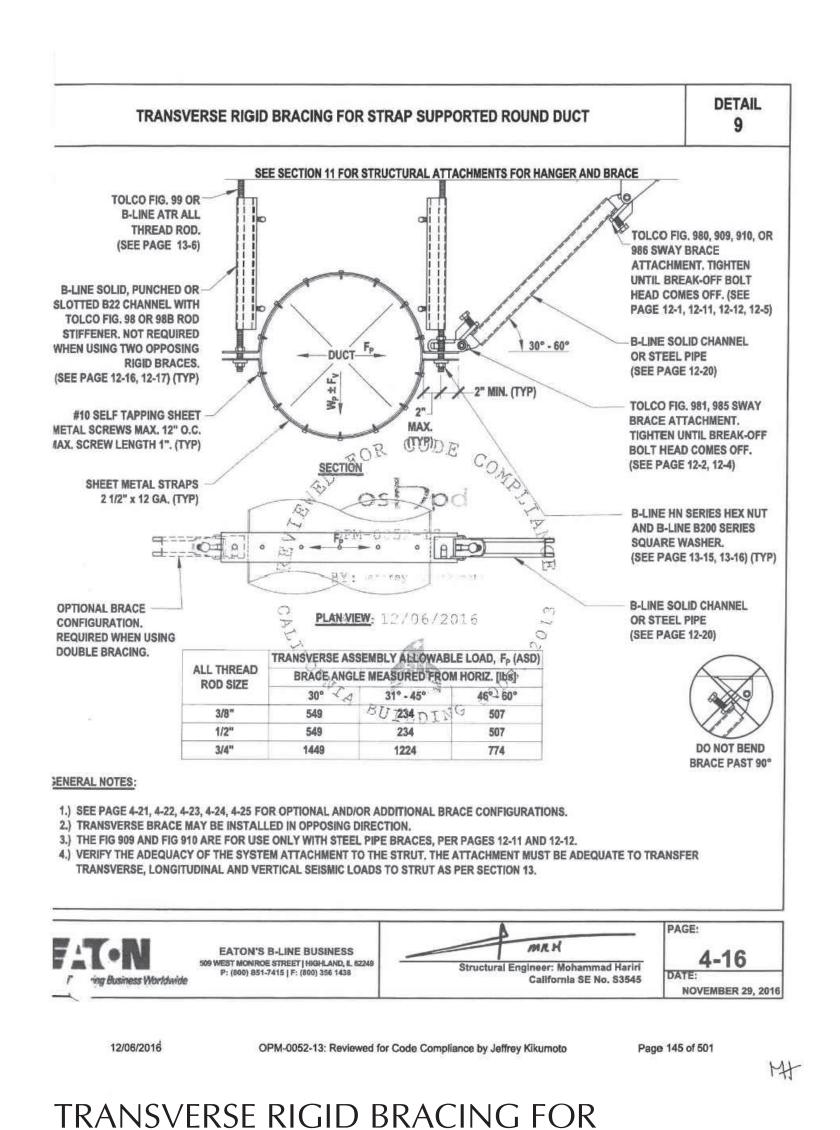


BASKIN
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ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 22013
Plt: 10-05-23



TRANSVERSE RIGID BRACING FOR TRAPEZE SUPPORTED RECTANGULAR DUCT SCALE: N.T.S.



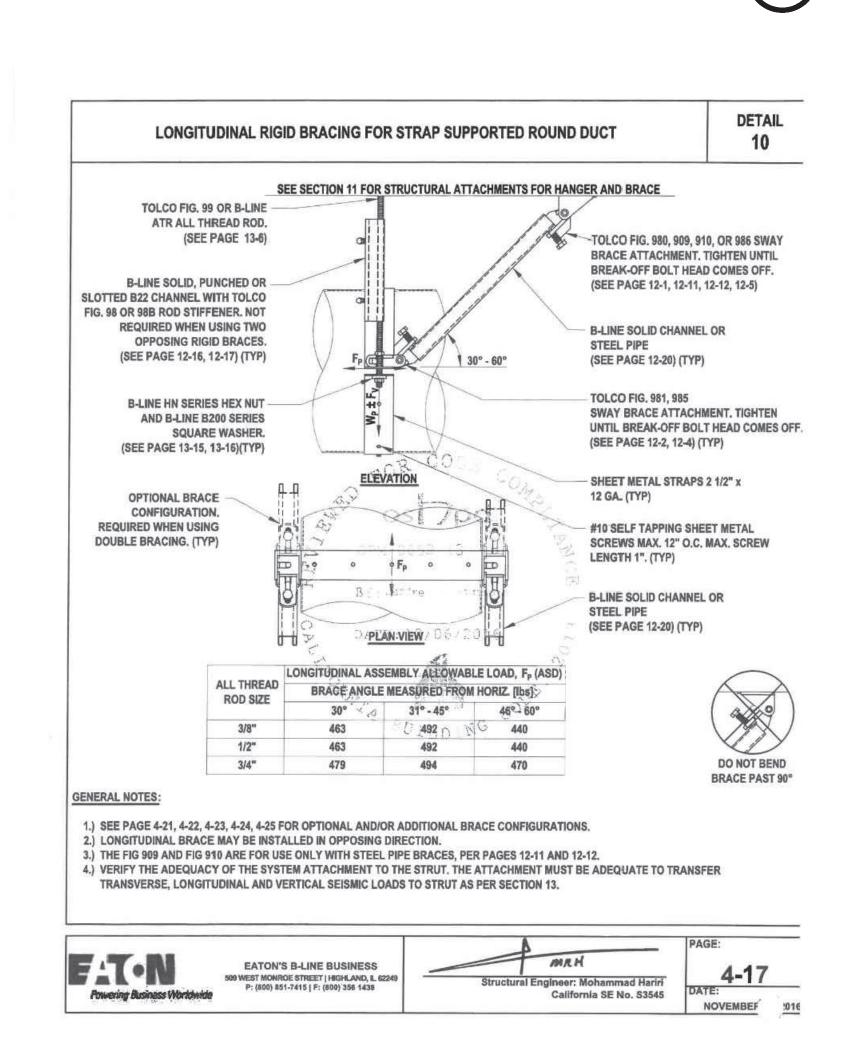
STRAP SUPPORTED ROUND DUCT

SCALE: N.T.S.

LONGITUDINAL RIGID BRACING FOR TRAPEZE SUPPORTED RECTANGULAR DUCT SEE SECTION 11 FOR STRUCTURAL ATTACHMENTS FOR HANGER AND BRACE TOLCO FIG. 99 OR B-LINE -ATR ALL THREAD ROD. (SEE PAGE 13-6) TOLCO FIG. 980, 909, 910, OR 986 SWAY BRACE ATTACHMENT, TIGHTEN UNTIL B-LINE SOLID, PUNCHED OR -BREAK-OFF BOLT HEAD COMES OFF. SLOTTED B22 CHANNEL WITH TOLCO (SEE PAGE 12-1, 12-11, 12-12, 12-5) FIG. 98 OR 98B ROD STIFFENER. NOT REQUIRED WHEN USING TWO **B-LINE SOLID CHANNEL** OPPOSING RIGID BRACES. OR STEEL PIPE (SEE PAGE 12-16, 12-17) (TYP) (SEE PAGE 12-20) (TYP) **B-LINE SOLID OR PUNCHED CHANNEL.** TOLCO FIG. 981, 985 SWAY BRACE PUNCHED HOLE DIAMETER 1/16" MAX, ATTACHMENT. TIGHTEN UNTIL LARGER THAN ROD DIAMETER BREAK-OFF BOLT HEAD COMES OFF. (SEE PAGE 13-17, 13-18, 13-19, 13-20) (SEE PAGE 12-2, 12-4) (TYP) **B-LINE HN SERIES HEX NUT AND B-LINE** B200 SERIES SQUARE WASHER. #10 SELF TAPPING SHEET \_ (SEE PAGE 13-15, 13-16) (TYP) METAL SCREWS MAX. 12" O.C. MAX, SCREW LENGTH 1". (TYP) OPTIONAL BRACE CONFIGURATION. REQUIRED WHEN USING DOUBLE BRACING. (TYP) B-LINE SOLID CHANNEL OR DATE: 12/06/2016 STEEL PIPE (SEE PAGE 12-20) (TYP) LONGITUDINAL ASSEMBLY ALLOWABLE LOAD (F) (ASD) BRACE ANGLE MEASURED FROM HORIZ. [lbs] 46° - 60° DO NOT BEND BRACE PAST 90° ENERAL NOTES: 1.) SEE PAGE 4-21, 4-22, 4-23, 4-24, 4-25 FOR OPTIONAL AND/OR ADDITIONAL BRACE CONFIGURATIONS. 2.) LONGITUDINAL BRACE MAY BE INSTALLED IN OPPOSING DIRECTION. 3.) THE FIG 909 AND FIG 910 ARE FOR USE ONLY WITH STEEL PIPE BRACES, PER PAGES 12-11 AND 12-12. 4.) VERIFY THE ADEQUACY OF THE SYSTEM ATTACHMENT TO THE STRUT. THE ATTACHMENT MUST BE ADEQUATE TO TRANSFER TRANSVERSE, LONGITUDINAL AND VERTICAL SEISMIC LOADS TO STRUT AS PER SECTION 13. DESIGN PROFESSIONAL SHALL CONSIDER ECCENTRIC LOAD DISTRIBUTION WHEN DETERMINING THE F P VALUE USED IN DESIGN. 6.) WHERE SEISMIC LOAD IS APPLIED FULLY ECCENTRIC, REDUCE F. BY 50%. LINEARLY INTERPOLATE FOR CONDITION BETWEEN CENTER LINE AND BRACE. **EATON'S B-LINE BUSINESS** 4-14 509 WEST MONROE STREET | HIGHLAND, IL 62249 P: (800) 851-7415 | F: (800) 356 1438 Structural Engineer: Mohammad Hariri California SE No. S3545 Pow Business Vitoridunide **NOVEMBER 29, 201** 

LONGITUDINAL RIGID BRACING FOR TRAPEZE SUPPORTED RECTANGULAR DUCT SCALE: N.T.S.

OPM-0052-13: Reviewed for Code Compliance by Jeffrey Kikumoto



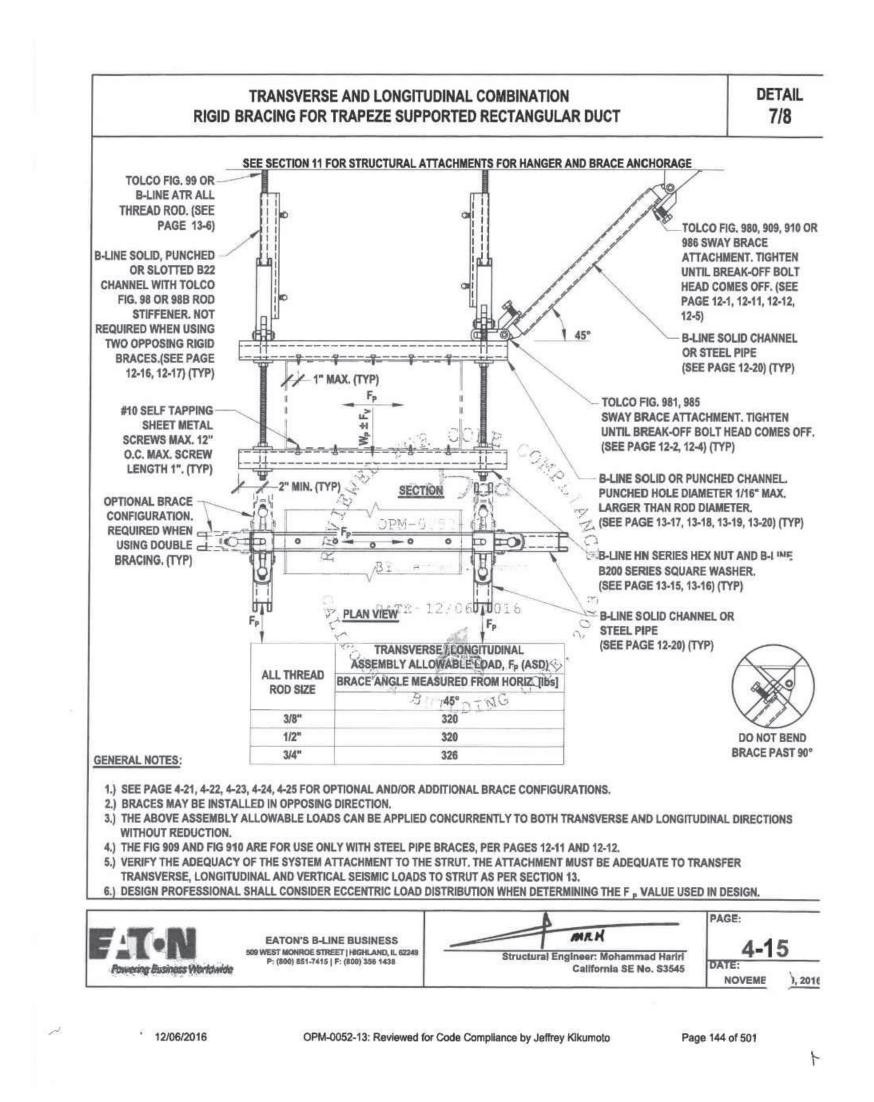
OPM-0052-13: Reviewed for Code Compliance by Jeffrey Kikumoto

LONGITUDINAL RIGID BRACING FOR STRAP SUPPORTED ROUND DUCT SCALE: N.T.S.

12/06/2016

E

Page 146 of 501



TRANSVERSE & LONGITUDINAL COMBINATION RIGID BRACING FOR TRAPEZE SUPPORTED RECTANGULAR DUCT SCALE: N.T.S.

DETAIL TRANSVERSE AND LONGITUDINAL COMBINATION RIGID BRACING FOR STRAP SUPPORTED ROUND DUCT SEE SECTION 11 FOR STRUCTURAL ATTACHMENTS FOR HANGER AND BRACE TOLCO FIG. 99 OR B-LINE ATR ALL THREAD ROD. (SEE PAGE 13-6) TOLCO FIG. 980, 909, 910, OR 986 SWAY BRACE ATTACHMENT, TIGHTEN B-LINE SOLID, PUNCHED OR-SLOTTED B22 CHANNEL UNTIL BREAK-OFF BOLT HEAD COMES OFF. (SEE WITH TOLCO FIG. 98 OR 98B PAGE 12-1, 12-11, 12-12, 12-5) ROD STIFFENER, NOT REQUIRED WHEN USING TWO OPPOSING RIGID BRACES. **B-LINE SOLID CHANNEL** (SEE PAGE 12-16, 12-17) (TYP) OR STEEL PIPE (SEE PAGE 12-20) (TYP) #10 SELF TAPPING SHEET TOLCO FIG. 981, 985 SWAY METAL SCREWS MAX. 12" O.C. BRACE ATTACHMENT. MAX. SCREW LENGTH 1". (TYP) **TIGHTEN UNTIL BREAK-OFF** BOLT HEAD COMES OFF. SHEET METAL STRAPS (SEE PAGE 12-2, 12-4) (TYP) 2 1/2" x 12 GA. (TYP) **B-LINE HN SERIES HEX NUT** ANDB-LINE B200 SERIES SQUARE WASHER. (SEE PAGE 13-15, 13-16) (TYP) TIONAL BRACE ONFIGURATION. REQUIRED WHEN USING **B-LINE SOLID CHANNEL OR** DOUBLE BRACING. (TYP) STEEL PIPE (SEE PAGE 12-20) (TYP) ASSEMBLY ALLOWABLE LOAD, Fp (ASD) BRACE ANGLE MEASURED FROM HORIZ, [Ibs] DO NOT BEND .) SEE PAGE 4-21, 4-22, 4-23, 4-24, 4-25 FOR OPTIONAL AND/OR ADDITIONAL BRACE CONFIGURATIONS. 2.) BRACES MAY BE INSTALLED IN OPPOSING DIRECTION. .) THE ABOVE ASSEMBLY ALLOWABLE LOADS CAN BE APPLIED CONCURRENTLY TO BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS WITHOUT REDUCTION. i.) THE FIG 909 AND FIG 910 ARE FOR USE ONLY WITH STEEL PIPE BRACES, PER PAGES 12-11 AND 12-12. 6.) VERIFY THE ADEQUACY OF THE SYSTEM ATTACHMENT TO THE STRUT, THE ATTACHMENT MUST BE ADEQUATE TO TRANSFER TRANSVERSE, LONGITUDINAL AND VERTICAL SEISMIC LOADS TO STRUT AS PER SECTION 13. **EATON'S B-LINE BUSINESS** 509 WEST MONROE STREET | HIGHLAND, IL 62249 P: (800) 851-7415 | F: (800) 356 1438 Structural Engineer: Mohammad Hariri ving Business Vlaridwide California SE No. \$3545 Page 147 of 501 OPM-0052-13: Reviewed for Code Compliance by Jeffrey Kikumoto

TRANSVERSE & LONGITUDINAL COMBINATION RIGID BRACING FOR STRAP SUPPORTED ROUND DUCT SCALE: N.T.S.

F

BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street Fresno, CA 93721 Tel: (559) 237-0376 Job: 22013 Plt: 10-05-23 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122640 INC:

REVIEWED FOR SS FLS ACS DATE: 11/09/2023



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CAMPUS HVAC

Fremont Magnet Elementary School

607 Texas St. Bakersfield. CA. 93307

Bakersfield City School District

ARCHITECT



CONSULTANT



PROJECT INFO

 Project No
 566-0018

 Date
 09.14.22

 DSA File No
 15-6

 DSA No
 03-122640

REVISIONS

No Date

No Date Item

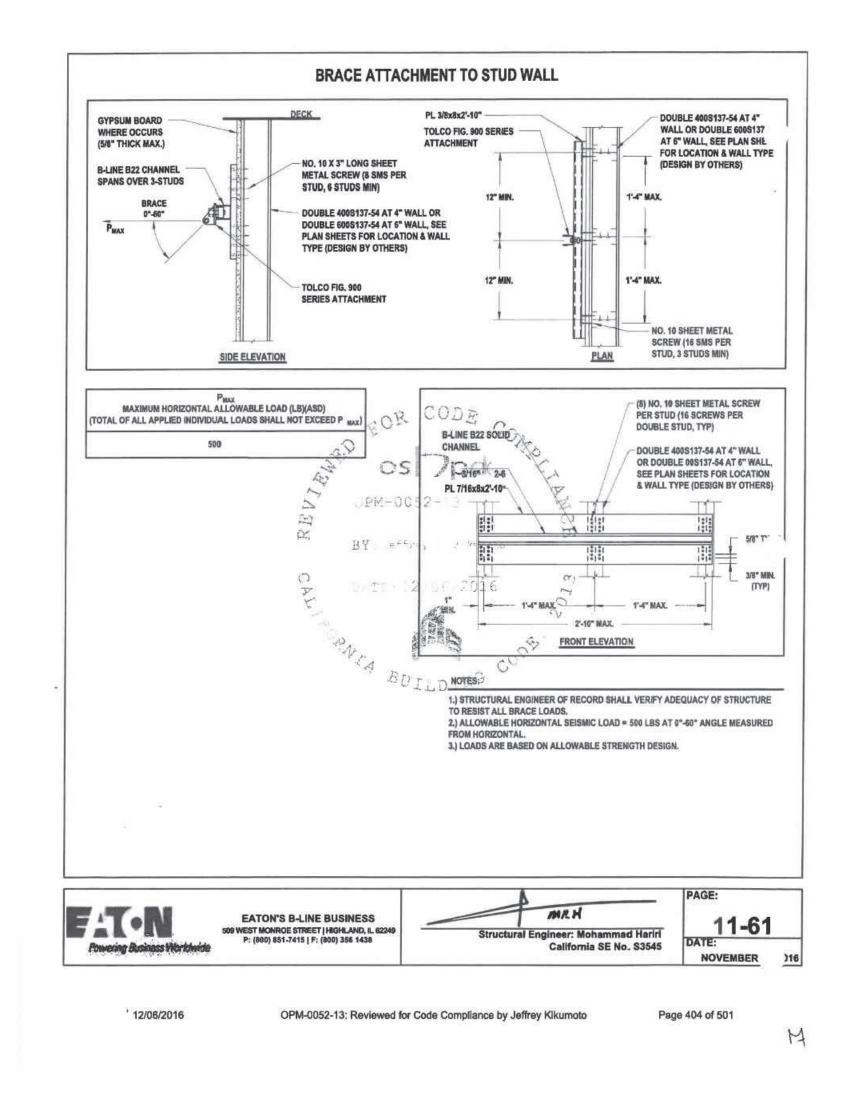
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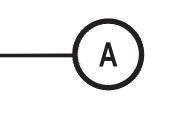
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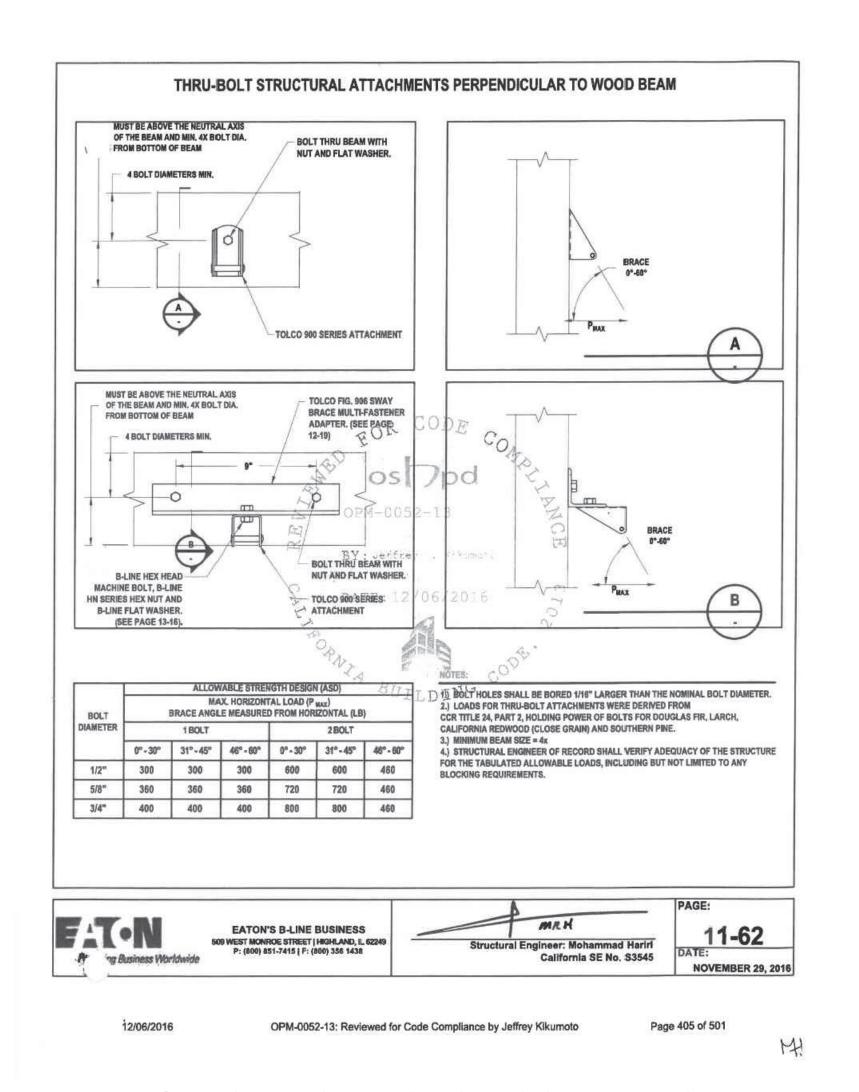
M4.12

DUCT BRACING DETAILS

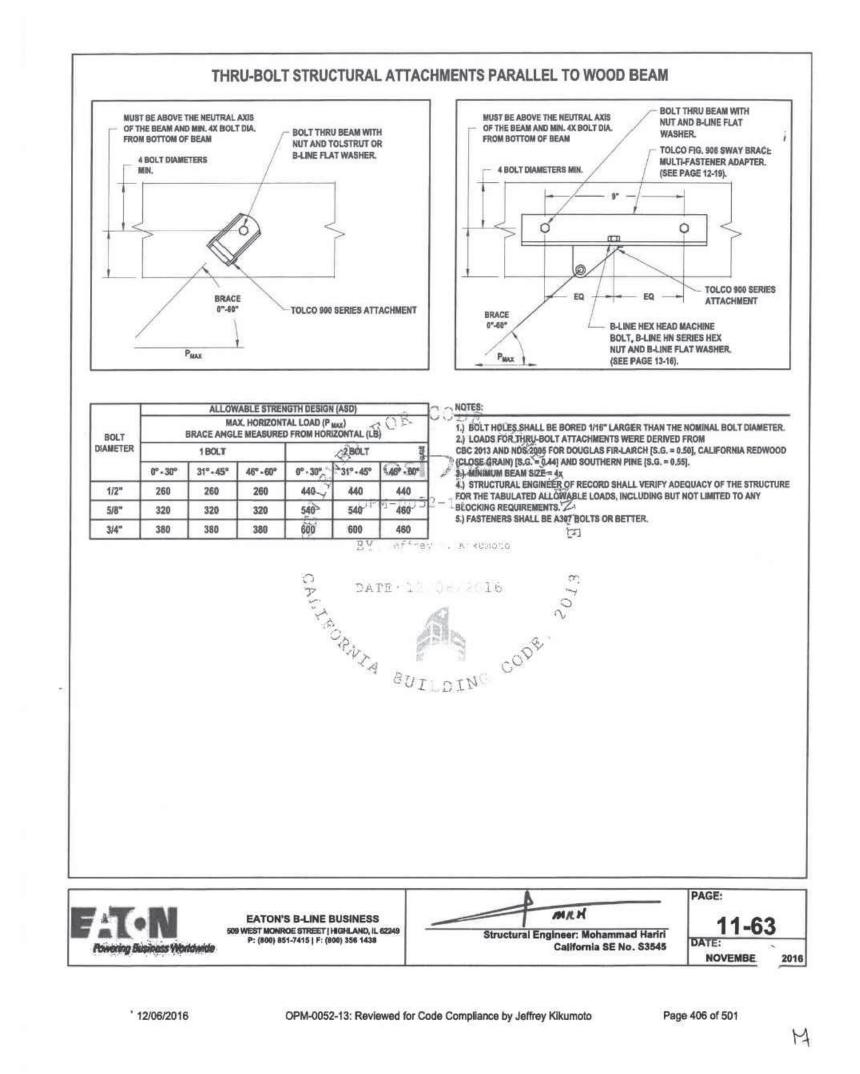


BRACE ATTACHMENT TO STUD WALL SCALE: N.T.S.



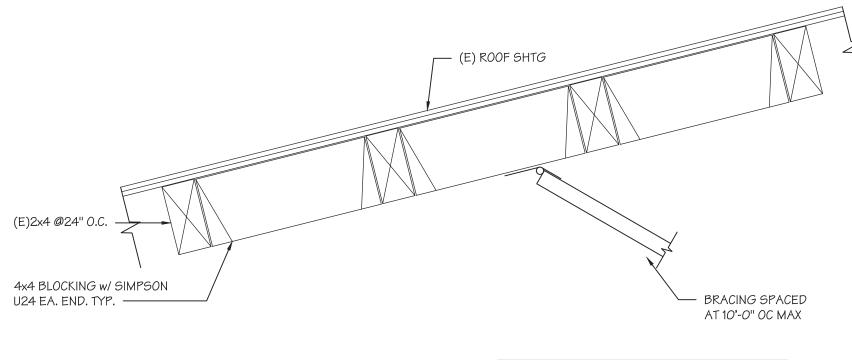


THRU-BOLT STRUCTURAL ATTACHMENTS
PERPENDICULAR TO WOOD BEAM
SCALE: N.T.S.



THRU-BOLT STRUCTURAL ATTACHMENTS
PARALLEL TO WOOD BEAM
SCALE: N.T.S.

-(c)



INTSTALL ADDITIONAL BLOCKING ON EITHER SIDE OF THE BLOCKING FOR BRACE, AND MAINTAIN BRACES AT A MAXIMUM OF 10'-0" O.C.

BRACING TABLE

BRACE

MAX SPACING

TRAVERSE

10 G0'-0"

NOTES:

1. EACH STRAIGHT RUN OF 10'-0" OR LONGER MUST BE BRACED.

2. ANY CHANGE IN DIRECTION MUST BE BRACED.

3. EACH STRAIGHT RUN MUST BE BRACED IN THE TRANSVERSE DIRECTION AT EACH END OF RUN.

4. EACH STRAIGHT RUN MUST HAVE A MINIMUM OF ONE LONGITUDINAL BRACE.

NOTE: (1) CONNECTION PER (E) JOIST (MAX)

BLOCKING FOR BRACE CONN.
SCALE: N.T.S.

D



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122640 INC:

REVIEWED FOR

SS FLS ACS DATE:

11/09/2023

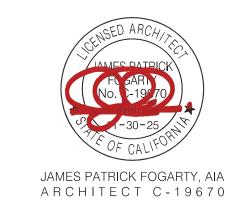
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CAMPUS HVAC

Fremont Magnet
Elementary School

607 Texas St. Bakersfield. CA. 93307
Bakersfield City School District

ARCHITECT



CONSULTANT



PROJECT INFO

 Project No
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DETAILS

DUCT BRACING

M4.13

rioje	ect Name: Fre	emont Scho	ool Bl	ld C / D / E	NRCC-PRF-01-E Page 1 of 13					Ŭ.	
Proje	ect Address: 60	7 Texas Str	eet B	lakersfield 9330	7		Calculation Date/Tim	ne: 11	1:50, Mon	Aug 29, 2022	
Input	t File Name: Fre	emont T24.	cibd:	19x							
A. G	ENERAL INFORMATIO	ON									
1	Project Location (city)	(i		Bakerst	ield	8	Standards Version	on		Compliance2019	
2	CA Zip Code	)		93307		9	Compliance Software	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		EnergyPro 8.3	
3	3 Climate Zone			13	13 10		Weather File			BAKERSFIELD_723840_CZ2010.epw	
4	Total Conditioned Floor Area in Scope		4,800 f	t <sub>2</sub>	11	Building Orientation	(deg)		(S) 180 deg		
5	Total Unconditioned Floor Area		0 ft <sup>2</sup>		12	Permitted Scope of V	Vork		ExistingAdditionAndA	lteration	
6	6 Total # of Stories (Habitable Above Grade)			ade) 1		13	Building Type(s)			Nonresidential	
7	Total # of dwelling uni	ts		o		14	Gas Type			NaturalGas	
R DI	ROJECT SUMMARY						10				
	nit application.			Day 8	omplying via Performance				95 1051	g Components Comply	ing Prescriptively
Enve	lope (see Table G)			Performance	Covered Process: Commercial		co	mplian	ce and sho	uld be documented on	
Enve	lope (see Table G)			Not Included	Covered Process: Commercial Kitchens		Not Included th	ompliani ne scope	ce and sho	uld be documented on mit application (i.e. co	the NRCC form listed if wit
***************************************				**************************************	Kitchens	STATE OF THE PARTY	Not Included th	omplian ne scope n the NR	ce and sho of the per RCC-PRF-E,	uld be documented on mit application (i.e. co	the NRCC form listed if wit
147-107-10	lope (see Table G) hanical (see Table H)			Not Included	PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY.	×	Not Included th or Performance In	ompliand ne scope n the NR ndoor Lig	ce and sho of the per RCC-PRF-E,	ould be documented on mit application (i.e. co. conditioned)§140.6	the NRCC form listed if wit mpliance will not be shown
Mecl	hanical (see Table H)	-		Not Included Performance	Kitchens  Covered Process: Computer Rooms		Not Included the or Performance In Not Included Or	ompliand ne scope n the NR ndoor Lig utdoor I	ce and sho of the per RCC-PRF-E, ghting (Un	uild be documented on mit application (i.e. co. conditioned)§140.6	the NRCC form listed if wit mpliance will not be shown NRCC-LTI-E
Mecl		nle I)		Not Included  Performance  Not Included	Kitchens		Not Included the or Performance In Not Included Or	ompliand ne scope n the NR ndoor Lig utdoor I	ce and sho of the per RCC-PRF-E, ghting (Un Lighting §:	uild be documented on mit application (i.e. co. conditioned)§140.6	the NRCC form listed if wit mpliance will not be shown NRCC-LTI-E NRCC-LTO-E NRCC -LTS-E
Mecl Dom	hanical (see Table H) estic Hot Water (see Tab	ole I) -		Not Included Performance Not Included Performance	Kitchens  Covered Process: Computer Rooms		Not Included the or Performance In Not Included Or Performance Signature Not Included Electric Include	ompliand ne scope n the NR ndoor Lig utdoor I gn Light lectrical scalator	ce and sho of the per RCC-PRF-E, ghting (Un Lighting §: ting §140.8 power sys requirement pplicable (	uild be documented on rmit application (i.e. co. conditioned)§140.6 .40.7 B Mandatory Meas tems, commissioning, s	the NRCC form listed if wit mpliance will not be shown NRCC-LTI-E NRCC-LTO-E NRCC -LTS-E sures solar ready, elevator and d should on the NRCC form
Mecl Dom Light	hanical (see Table H) estic Hot Water (see Tab	ole I) -		Not Included  Performance  Not Included  Performance  Not Included	Kitchens  Covered Process: Computer Rooms		Not Included the or Performance In Not Included Or Performance Signature Not Included Electric Performance Signature Performance Sig	ompliand be scope in the NR idoor Light utdoor I gn Light lectrical scalator sted if ap RCC-PRI	ce and sho to of the per RCC-PRF-E, ghting (Un Lighting §: ting §140.8 power sys requirement pplicable ( F-E.)	uild be documented on rmit application (i.e. co conditioned)§140.6 .40.7 Mandatory Meas tems, commissioning, sents are mandatory and	the NRCC form listed if wit mpliance will not be shown NRCC-LTI-E NRCC-LTO-E NRCC -LTS-E sures solar ready, elevator and d should on the NRCC form
Mecl Dom Light Table	hanical (see Table H) estic Hot Water (see Tab	ole I) -		Not Included Performance Not Included Performance Not Included Performance	Kitchens  Covered Process: Computer Rooms		Not Included the or Performance In Not Included Or Performance Signature Not Included Ellers Its Not Included Ellers Included Ellers Included Ellers Its Not Included Ellers Included	omplianing scape in the NR idoor Light utdoor I ight lectrical scalator sted if ap RCC-PRI ectrical	ce and sho to of the per RCC-PRF-E, ghting (Un Lighting §: ting §140.8 power sys requirement pplicable ( F-E.)	uild be documented on mit application (i.e. co. conditioned)§140.6 40.7  Mandatory Measters, commissioning, sents are mandatory and i.e. compliance will not tribution \$110.11	the NRCC form listed if wit mpliance will not be shown  NRCC-LTI-E  NRCC-LTO-E  NRCC -LTS-E  sures solar ready, elevator and d should on the NRCC form be shown on the

Project Name:	Fremont School Bld C / D / E	NRCC-PR	F-01-E	Page 2 of 13	
Project Address:	607 Texas Street Bakersfield 93307	Calculation	on Date/Time:	11:50, Mon, Aug 29, 2022	
Input File Name:	Fremont T24.cibd19x				
C1. COMPLIANCE F	RESULTS FOR PERFORMANCE COMPONENTS (Ann	nual TDV Energy Use, kBtu/ft ²-yr)			
		COMPLIES			
	Energy Component	Standard Design (TDV)	Pro	posed Design (TDV)	Compliance Margin (TDV) <sup>1</sup>
Space Heating		14	26	23.60	-9.34
Space Cooling		143	28	103.00	40.28
Indoor Fans		192	18	84.36	107.82
Heat Rejection			77	77	#
Pumps & Misc.					
Domestic Hot Water		14	14.01		22
Indoor Lighting		40.01		40.01	7
<b>ENERGY STAN</b>	NDARDS COMPLIANCE TOTAL	403.7	264.98		138.76 (34.4%)
<sup>1</sup> Notes: The number	er in parenthesis following the Compliance Margir	n in column 4. represents the Percer	t Better than	Standard.	
C2. RESULTS FOR '/	ABOVE CODE' QUALIFICATIONS <sup>1</sup>				
☐ This project is purs	suing CalGreen Tier 1		☐This proj	ject is pursuing CalGreen Tier 2	2
	Miscellaneous Energy Component	Standard Design (TDV)	Pro	posed Design (TDV)	Compliance Margin (TDV) <sup>1</sup>
Receptacle		72	74	72.74	
Process					94
Other Ltg					
Process Motors			-	-55	=

NRCC-PRF-01-E

3 4 5 6 7 8

Framing Cavity Continuous
Type R-Value R-Value

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NA F-Factor 0.73

**Assembly Method** 

COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Fremont School Bld C / D / E

Fremont T24.cibd19x

Fenestration Assembly Name / Tag | Fenestration Type / Product Type /

of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name

Slab On Grade14

G5. FENESTRATION ASSEMBLY SUMMARY

or I.D.

Single Metal Clear

<sup>2</sup> Status: N - New, A - Altered, E - Existing

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Status: N - New, A - Altered, E - Existing

607 Texas Street Bakersfield 93307

Project Name:

Project Address:

Input File Name:

<sup>1</sup> Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

Surface Type

Frame Type VerticalFenestration

FixedWindow

MetalFraming

UndergroundFloor 4800 NA

roject Name:	Fremont School Bld C	/D/E		NRCC-PRF-01-E	Page 3 of 13		
roject Address:	607 Texas Street Baker	sfield 93307		Calculation Date/Ti	me: 11:50, Mon, Aug 29, 2	022	
nput File Name:	Fremont T24.cibd19x						
3. ENERGY USE SU	JMMARY				10		
Ene	ergy Component	Standard Design Site (MWh)	Proposed Design (MWh)	Site Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
S	pace Heating		440	**	33.0	54.7	-21.7
9	Space Cooling	16.1	11.2	4.9	-		
	Indoor Fans	30.6	12.8	17.8	e:	1-4	
F	leat Rejection	144	22	*		244	
Р	umps & Misc.	-	75	=		-	
Don	nestic Hot Water	THE STATE OF THE S	127	-	37.4	37.4	0.0
Ir	ndoor Lighting	6.9	6.9	0.0			>
Co	mpliance Total	53.6	30.9	22.7	70.4	92.1	-21.7
	Receptacle	12.7	12.7	0.0	- <del> </del>		- 27
	Process	≥¥	**:	<del>20</del> -1		_++.	
	Other Ltg			-		ap.	
P	rocess Motors	325	574	_ ==	=		1.77
	TOTAL	66.3	43.6	22.7	70.4	92.1	-21.7

				_	
D. EXCEPTIONAL CONDITIONS					
The building does not include service water heating. Veri	fy that service water heating	ng is not required and is not	included in the	design.	
E. HERS VERIFICATION					
This Section Does Not Apply					

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Fremont School Bld C / D /	E	NRCC-PRF-01-E	Page 4 of 13		
607 Texas Street Bakersfiel	d 93307	Calculation Date/Time:	11:50, Mon, Aug 29, 2022		
Fremont T24.cibd19x					
NERAL INFORMATION (condi	tioned spaces only)				
1	2	3		4	
aces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Ar	ea (ft²)	Window to Wall Ratio (%)	
North-Facing <sup>1</sup>	1,920 ft <sup>2</sup>		960 ft <sup>2</sup>	50.0%	
East-Facing <sup>2</sup>	0 ft²		0 ft <sup>2</sup>	00.09	
South-Facing <sup>3</sup>	1,920 ft <sup>2</sup>		480 ft <sup>2</sup>	25.09	
West-Facing <sup>4</sup>	360 ft²		0 ft²	00.0%	
Total	4,200 ft <sup>2</sup>		1,440 ft <sup>2</sup>	34.3%	
Ĭ	4,800 ft <sup>2</sup>		0 ft <sup>2</sup>	00.09	
	607 Texas Street Bakersfield Fremont T24.cibd19x  NERAL INFORMATION (condit  1 aces & Orientation  North-Facing <sup>1</sup> East-Facing <sup>2</sup> South-Facing <sup>3</sup> West-Facing <sup>4</sup>	NERAL INFORMATION (conditioned spaces only)    1	607 Texas Street Bakersfield 93307  Fremont T24.cibd19x  NERAL INFORMATION (conditioned spaces only)  1 2 3  aces & Orientation Total Gross Surface Area (ft²) Total Fenestration Are  North-Facing¹ 1,920 ft²  East-Facing² 0 ft²  South-Facing³ 1,920 ft²  West-Facing⁴ 360 ft²  Total 4,200 ft²	Calculation Date/Time:   11:50, Mon, Aug 29,   Fremont T24.cibd19x	

<sup>1</sup> North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
<sup>2</sup> East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
<sup>3</sup> South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
4 West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

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**Equipment Type** 

SZVAVAC

SZVAVAC

SZVAVAC

SZVAVAC

SZVAVAC

lotes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

Education - Classrooms (ages 5-8)

Fremont School Bld C / D / E

Fremont T24.cibd19x

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

607 Texas Street Bakersfield 93307

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Project Name:

Project Address:

Input File Name:

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

This Section Does Not Apply

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

System Name

AC1 C1 / D1 / E1

AC1 C2 / D2 / E2

AC1 C3 / D3 / E3

AC1 C6 / D7 / E6

AC1 C7 / D8 / E7

H7. NONRESIDENTIAL VENTILATION

Zone Name

1-Classroom C1 / D1 / E1

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

H5. PUMPS

1	2	3	4	5	6	7	8	9
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers
R-30 Roof Attic6	Roof	4800	Wood	30	NA	U-Factor	0.038	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-30 Gypsum Board - 1/2 in.

R-30 Roof Attic6	Roof	4800	Wood	30	NA	U-Factor	0.038	Plywood - 1/2 in.  Air - Cavity - Wall Roof Ceiling - 4 in.  or more  Wood framed roof, 24in. OC, 3.5in.,  R-30  Gypsum Board - 1/2 in.	E
R-11 Wall8	ExteriorWall	4200	Wood	11	NA	U-Factor	0.110	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-11 Gypsum Board - 1/2 in.	E

3 Window Interlocks per

§140.4(n)

NA

Mechanical Ventilation

people

24.00

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3 4 5

CFM

360

# of Supply OA Exhaust Conditioned Area

CFM

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Other Special Features and Controls

Zones With CO2Sensor Vent. Control

Fixed Drybulb Economizer

Zones With CO2Sensor Vent. Control

Fixed Drybulb Economizer Zones With CO2Sensor Vent. Control

Fixed Drybulb Economizer Zones With CO2Sensor Vent, Control

Fixed Drybulb Economizer Zones With CO2Sensor Vent, Control

Fixed Drybulb Economizer

(sf)

DCV or Occupant Sensor

Controls, or Both

DCV

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1	2	3	4	5	6
Fenestration Tag/ID	Orientation	Depth(ft.)	Height from Bottom of Sill to Overhang(ft)	Right Extent(ft)	Left Extent(ft)
Window11	South	12.0	4	10.0	10.0
Window19	South	12.0	4	10.0	10.0
Window25	South	12.0	4	10.0	10.0
Window31	South	12.0	4	10.0	10.0
Window37	South	12.0	4	10.0	10.0

Certification Method<sup>1</sup>

Default Performance

<sup>1</sup> Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease

ciency Standards- 2019 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-12092021-684	4 Report Generated at: 2022-08-29 11:50:44	CA Building Energy Eff	ficiency Standards- 2019 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-12092021-68	Report Generated at: 2022-08-29 11:50:44
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607 Texas Street Bakersfield 93307	Calculation Date/Time:	11:50, Mon, Aug 29, 2022	Project Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	11:50, Mon, Aug 29, 2022
Fremont T24.cibd19x			Input File Name:	Fremont T24.cibd 19x		
	607 Texas Street Bakersfield 93307	Fremont School Bld C / D / E  NRCC-PRF-01-E  607 Texas Street Bakersfield 93307  Calculation Date/Time:	Fremont School Bld C / D / E  NRCC-PRF-01-E  Page 8 of 13  607 Texas Street Bakersfield 93307  Calculation Date/Time: 11:50, Mon, Aug 29, 2022	Fremont School Bld C / D / E  NRCC-PRF-01-E  Page 8 of 13  Project Name:  607 Texas Street Bakersfield 93307  Calculation Date/Time: 11:50, Mon, Aug 29, 2022  Project Address:	Fremont School Bld C / D / E Page 8 of 13 Project Name: Fremont School Bld C / D / E	Fremont School Bld C / D / E  NRCC-PRF-01-E  Page 8 of 13  Project Name:  Fremont School Bld C / D / E  NRCC-PRF-01-E  NRCC-PRF-01-E  Project Name:  Fremont School Bld C / D / E  NRCC-PRF-01-E  Project Address:  607 Texas Street Bakersfield 93307  Calculation Date/Time:

This Section Does Not Apply

<sup>3</sup>Lighting information for existing spaces modeled is not included in the table

138.8 (29.1%)

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**Description of Assembly Layers** 

Insulation Orientation = None Insulation R-Value = R0

5 6 7 8 9

1.19 0.83

Area ft<sup>2</sup>

1440

Overall Overall Overall U-factor SHGC VT

1	2	3	4	5	6	7
	м	lechanical Venti	lation			restate cas some
Zone Name	V	# of	Supply OA	Exhaust	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	people	CFM	CFM		controls, or both
2-Classroom C2 / D2 / E2	Education - Classrooms (ages 5-8)	24.00	360	0	960	DCV
3-Classroom C3 / D3 / E3	Education - Classrooms (ages 5-8)	24.00	360	0	960	DCV
4-Classroom C6 / D7 / E6	Education - Classrooms (ages 5-8)	24.00	360	0	960	DCV
5-Classroom C7 / D8 / E7	Education - Classrooms (ages 5-8)	24.00	360	0	960	DCV

	M	echanical Venti	lation			DG1 0 6	
Zone Name	Ventilation Function	# of	Supply OA	Exhaust	Conditioned Area	DCV or Occupant Sensor Controls, or Both	
	ventuation Function	people	CFM	CFM	(sf)	**************************************	
2-Classroom C2 / D2 / E2	Education - Classrooms (ages 5-8)	24.00	360	0	960	DCV	
3-Classroom C3 / D3 / E3	Education - Classrooms (ages 5-8)	24.00	360	0	960	DCV	
4-Classroom C6 / D7 / E6	Education - Classrooms (ages 5-8)	24.00	360	0	960	DCV	
5-Classroom C7 / D8 / E7	Education - Classrooms (ages 5-8)	24.00	360	0	960	DCV	

1	2	3	4	5	6	7	8	9	10	11	12	13
Surbana ID	Zone Name	Contain Torra	Qty	7091007	apacity uh)	Ai	irflow (cfm)			Fa	an	
System ID	Zone Name	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-Classroom C1 / D1 / E1-Trm	1-Classroom C1 / D1 / E1	VAVNoReheatBox	1	NA	NA	1800	1200	0.67	0.720	bhp	NA	
2-Classroom C2 / D2 / E2-Trm	2-Classroom C2 / D2 / E2	VAVNoReheatBox	1	NA	NA	1800	1200	0.67	0.720	bhp	NA	10
3-Classroom C3 / D3 / E3-Trm	3-Classroom C3 / D3 / E3	VAVNoReheatBox	1	NA	NA.	1800	1200	0.67	0.720	bhp	NA	
4-Classroom C6 / D7 / E6-Trm	4-Classroom C6 / D7 / E6	VAVNoReheatBox	1	NA	NA	1800	1200	0.67	0.720	bhp	NA	
5-Classroom C7 / D8 / E7-Trm	5-Classroom C7 / D8 / E7	VAVNoReheatBox	1	NA	NA	1800	1200	0.67	0.720	bhp	NA	

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E. HERS VERIFICATION			
This Section Does Not Apply			
to a transfer to the control of the control of the all the control of the control			

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Fremont School Bld C / D / E

Project Name:

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Input File Name:	Fremont T24.cibd19x									
H1. DRY SYSTEM EQUI	PMENT (furnaces, air h	andling (	units, heat pum	os, VRF, econo	mizers etc.	)				
1	2	3	4	5	6	7	8	9	10	11
				Heatin	g	1		Cooling		
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type present)
AC1 C1 / D1 / E1	SZVAVAC (Packaged3Phase)	1	49	0	AFUE	81.0	57	SEER/EER	16.10/12.20	FixedDryBulb
AC1 C2 / D2 / E2	SZVAVAC (Packaged3Phase)	1	49	0	AFUE	81.0	57	SEER/EER	16.10/12.20	FixedDryBulb
AC1 C3 / D3 / E3	SZVAVAC (Packaged3Phase)	1	49	0	AFUE	81.0	57	SEER/EER	16.10/12.20	FixedDryBulb
AC1 C6 / D7 / E6	SZVAVAC (Packaged3Phase)	1	49	0	AFUE	81.0	57	SEER/EER	16.10/12.20	FixedDryBulb
AC1 C7 / D8 / E7	SZVAVAC (Packaged3Phase)	1	49	0	AFUE	81.0	57	SEER/EER	16.10/12.20	FixedDryBulb

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA			Supply Fan					Return Fan		-	St
Name or Item Tag	Qty	CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	Status <sup>1</sup>
AC1 C1 / D1 / E1	1	360	1800	BrakeHorsePower	0.720	bhp	VariableSpeedDriv e	NA	NA	NA	NA	NA	N
AC1 C2 / D2 / E2	1	360	1800	BrakeHorsePower	0.720	bhp	VariableSpeedDriv e	NA	NA	NA	NA	NA	N
AC1 C3 / D3 / E3	1	360	1800	BrakeHorsePower	0.720	bhp	VariableSpeedDriv e	NA	NA	NA	NA	NA	N
AC1 C6 / D7 / E6	1	360	1800	BrakeHorsePower	0.720	bhp	VariableSpeedDriv e	NA	NA	NA	NA	NA	N
AC1 C7 / D8 / E7	1	360	1800	BrakeHorsePower	0.720	bhp	VariableSpeedDriv e	NA	NA	NA	NA	NA	N

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Project Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	11:50, Mon, Aug 29, 2022	
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K1. INDOOR CONDITIONED	LIGHTING GENERAL INFO					
1	2	3.	4	5	6	
		Localitad Linkshan Review	Highwing Control Condition	Additional (Custom) Allowance		
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Footnotes (Watts)	Tailored Method (Watts)	
Classroom, Lecture, Training, Vocational Areas	4,800	3,360	0	0	0	
	4.000					

**************************************	The second of the second of the Control of the Cont	(watts)	(watts)	(Watts)	Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	4,800	3,360	0	0	0
Building Totals:	4,800	3,360	0	0	0

K4. INDOOR CONDITIONED LIGHT	ING MANDATORY LIGHTING CONTROLS						
Building Level Controls							
	1			1	2		
Mandatory Demand Response §110.12(c)				Shut-Off Controls §130.1(c)			
Area Level Controls (includes all li	ghting controls installed in conditioned space to meet r	mandatory requiremen	nts per §130.1)				
4	5	6	7	8	9	10	
Area Description	Area Category Primary Function Area	Area Controls 130.1(a)	Multi-Level Controls 130.1(b)	Shut-Off Controls 130.1(c)	Primary Daylighting 130.1(d)	Secondary Daylighting 140.5(d)	
			20012/01	20012(0)	250.2(4)	17/10	

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3434 Truxtun Avenue . Suite 240 Bakersfield . California . 93301 tel|661.327.1690 fax|661.327.7204 |web|www.aparchitects.net|

Fremont Magnet Elementary School 607 Texas St. Bakersfield. CA. 93307 Bakersfield City School District

ARCHITECT



CONSULTANT



PROJECT INFO

Project No	566-0018
Date	09.14.22
DSA File No	15-6
DSA No	03-122640

REVISIONS

INO	Date	item
*	00.00.08	DESCRIPTION

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF THE ADDINGTON PARTNERSHIP. ALL DESIGNS AND DRAWINGS ARE FOR THE USE ON THE SPECIFIED PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE ADDINGTON PARTNERSHIP. WRITTEN SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS SHALL BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. © COPYRIGHT 11.03.23 16:46

MECHANICAL TITLE 24 SHEETS -BUILDING C, D, E

Project Name:	Fremont School Bld C / D / E	NRCC-PRF-01-E	Page 10 of 13
Project Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	11:50, Mon, Aug 29, 2022
Input File Name:	Fremont T24.cibd19x		

<b>Building Componen</b>	t	Form/Title	
compliance. These o	Selections shall be made by Documentation Author to in documents bust be retained and provided to the building y.ca.gov/title24/2019standards/2019_compliance_docu	g inspector during construction and can be	
L. DECLARATION OF	REQUIRED CERTIFICATES OF INSTALLATION		
Input File Name:	Fremont T24.cibd19x		
Project Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	11:50, Mon, Aug 29, 2022

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Fremont School Bld C / D / E

Mechanical NRCI-MCH-01-E - Must be submitted for all buildings

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Project Name:

			The state of the s
roject Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	11:50, Mon, Aug 29, 2022
nput File Name:	Fremont T24.cibd19x	3	
M. DECLARATION OF	REQUIRED CERTIFICATES OF ACCEPTANCE		
ompliance. These do	ections shall be made by Documentation Author to indicate cuments must be provided to the building inspector during more information visit:https://www.energy.ca.gov/title24/	construction and must be completed	through an Acceptance Test Technician Certification
<b>Building Component</b>		Form/Title	
	NRCA-MCH-02-A Outdoor Air must be submitted for all newly in Acceptance (if applicable) since testing activities overlap	istalled HVAC units. Note: MCH02-A can l	be performed in conjunction with MCH-07-A Supply Fan VFD
	NRCA-MCH-05-A Air Economizer Controls		
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptar §120.1(c)3) can vary outside ventilation flow rates based on ma		200 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -
	NRCA-MCH-07-A Supply Fan Variable Flow Controls		
	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		
	The the TE TIPS for a chages sheet Expansion ones		
	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zon	e Terminal Units Acceptance	

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Fremont School Bld C / D / E

Calculation Date/Time: 11:50, Mon, Aug 29, 2022 607 Texas Street Bakersfield 93307 Project Address: Fremont T24.cibd19x Input File Name: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Mark Baskin Signature: Mark Baskin, P.E. Date of the Advanced Grant College and College an Company: Baskin Mechanical Engineers Address: 175 Fulton St. City/State/Zip: Fresno CA 93721 CEA/ HERS Certification Identification (if applicable): M26578 Phone: 5592370376 RESPONSIBLE PERSON'S DECLARATION STATEMENT I 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.

Report Version: NRCC-PRF-01-E-12092021-6844

NRCC-PRF-01-E

Page 13 of 13

Signature: Mark Baskin, P.E. Digital or great by Mark Baskin, P.E. Day Co. 1 (San Digital San Day State Plant Basking). The Co. Digital Co. 1 (San Digital San Dig

Date Signed: 08-29-2022

Title: P.E.

2. 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)

3. 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 requirements 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. 5. 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 building owner at occupancy. Responsible Envelope Designer Name: Signature: Date Signed: City/State/Zip: License #: Responsible Lighting Designer Name: Date Signed:

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Project Name:

City/State/Zip:

Responsible Mechanical Designer Name: Mark Baskin, P.E.

Company: Baskin Mechanical Engineers

Address: 5500 Ming Avenue, #251 City/State/Zip: Bakersfield CA 93309

Phone: (661) 397-2114

Fremont School Bld C / D / E

Report Generated at: 2022-08-29 11:50:44

License #: M26578

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Report Generated at: 2022-08-29 11:50:44 CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122640 INC: REVIEWED FOR SS 🗸 FLS 🗸 ACS 🗸

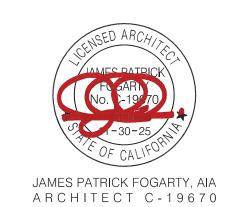


3434 Truxtun Avenue . Suite 240 Bakersfield . California . 93301 tel|661.327.1690 fax|661.327.7204 |web|www.aparchitects.net|

Fremont Magnet

Elementary School 607 Texas St. Bakersfield. CA. 93307 Bakersfield City School District

ARCHITECT



CONSULTANT



PROJECT INFO

Date	09.14.22
DSA File No	15-6
DSA No	03-122640

<u>/*</u>	00.00.08	DESCRIPTION

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF THE ADDINGTON PARTNERSHIP. ALL DESIGNS AND DRAWINGS ARE FOR THE USE ON THE SPECIFIED PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE ADDINGTON PARTNERSHIP. WRITTEN SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS SHALL BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
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> MECHANICAL TITLE 24 SHEETS -BUILDING C, D, E



10 CO 10 TO	ect Name:	Fremont Sc	hool B	ld R19 & R20	A A		NRCC-PRF-01-E		Page 1 of 12		
Proje	ect Address:	607 Texas S	treet B	lakersfield 93	307		Calculation Date/	Time:	12:36, Mon, Aug 29, 2022		
Inpu	t File Name:	Fremont R1	19 & 20	T24.cibd19							
A. G	ENERAL INFORMAT	TION									
1	Project Location (cit	ty)		Bak	ersfield	8	Standards Version	1		Compliance2019	
2	CA Zip Code	93307		07	9	Compliance Softw	iance Software (version)		EnergyPro 8.3		
3	Climate Zone			13		10	Weather File			BAKERSFIELD_723840	)_CZ2010.epw
4	Total Conditioned F	Conditioned Floor Area in Scope		1,92	0 ft²	11	Building Orientati	on (deg	į.	(S) 180 deg	
5	Total Unconditioned	otal Unconditioned Floor Area		0 ft <sup>2</sup>		12	Permitted Scope of	of Work		ExistingAdditionAndA	lteration
6	Total # of Stories (H	labitable Ab	ove Gr	ade) 1		13	Building Type(s)			Nonresidential	31.0% - 1.00 ( 140.0%
7	Total # of dwelling u					14	Gas Type			NaturalGas	
	nit application.	o snows willo			into are mediates in the performance carea					t mast snow compilation	as presentatively if within
	ROJECT SUMMARY		h buile	dina compon	ents are included in the performance calcul	ation.	If indicated as not	t include	d, the projec	t must show compliant	re prescriptively if within
			VVVOCASIOSE						are areas		Months of the Section of Section 1997
			VVVOCASIOSE		s Complying via Performance	To	Performance		Buildir	ng Components Comply	Months of the Section of Section 1997
pern			Building	g Componen	s Complying via Performance  Covered Process: Commercial		Performance Not Included	The fol	Buildir lowing build ance and sho	ng Components Comply ing components are ON ould be documented on rmit application (i.e. co	ing Prescriptively ILY eligible for prescriptive the NRCC form listed if with
<i>pern</i> Enve	nit application.		Building	Performanc	covered Process: Commercial Kitchens			The fol compli the sco on the	Buildir lowing build ance and sho pe of the pe NRCC-PRF-E	ng Components Comply ing components are ON ould be documented on rmit application (i.e. co	ing Prescriptively ILY eligible for prescriptive the NRCC form listed if with
<i>pern</i> Enve	nit application.		Building	Performano Not Include	covered Process: Computer Rooms  S Complying via Performance  Covered Process: Commercial  Covered Process: Computer Rooms		Not Included	The fol compli the sco on the Indoor	Buildir lowing build ance and sho pe of the pe NRCC-PRF-E	ing Components Comply ing components are ON ould be documented on rmit application (i.e. co ). conditioned)§140.6	ing Prescriptively ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown
Enve Mec	nit application. lope (see Table G) hanical (see Table H)	В	Building	Performance Not Include	covered Process: Commercial Kitchens  Covered Process: Commercial Covered Process: Computer Rooms		Not Included Performance	The fol compli the sco on the Indoor	Buildir lowing build ance and sho pe of the pe NRCC-PRF-E, Lighting (Un	ing Components Complying components are ON could be documented on the confirmit application (i.e. co.).  conditioned)§140.6	ing Prescriptively  ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown  NRCC-LTI-E
Enve Mec	nit application.	В	Building  U	Performance Not Include Performance Not Include	covered Process: Computer Rooms  Covered Process: Laboratory Exhaust		Not Included Performance Not Included	The fol compli the sco on the Indoor	Buildir lowing build ance and sho upe of the pe NRCC-PRF-E, Lighting (Un	ing Components Complying components are ON could be documented on the confirmit application (i.e. co.).  conditioned)§140.6	ing Prescriptively  ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown  NRCC-LTI-E  NRCC-LTO-E  NRCC-LTS-E
Enve Mec	nit application.  lope (see Table G)  hanical (see Table H)  estic Hot Water (see	B Table I)	Building	Performance Not Include Performance Not Include Performance	covered Process: Commercial Kitchens  Covered Process: Commercial Covered Process: Computer Rooms  Covered Process: Laboratory Exhaust		Not Included  Performance  Not Included  Performance	The folcomplishes scoon the Indoor Outdoor Sign Line	Buildir lowing build ance and sho upe of the pe NRCC-PRF-E Lighting (Un or Lighting § ghting §140.6 cal power system requirement f applicable (	ing Components Comply ing components are ON ould be documented on rmit application (i.e. co ). conditioned)§140.6 140.7  Mandatory Meas stems, commissioning,	ing Prescriptively  ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown  NRCC-LTI-E  NRCC-LTO-E  NRCC -LTS-E  Gures  Solar ready, elevator and d should on the NRCC form
Enve Mec	nit application.  lope (see Table G)  hanical (see Table H)  estic Hot Water (see	B Table I)	Suilding	Performance Not Include Performance Not Include Performance Not Include Not Include	covered Process: Commercial Kitchens  Covered Process: Commercial Covered Process: Computer Rooms  Covered Process: Laboratory Exhaust		Not Included  Performance  Not Included  Performance	The fol compli the scc on the Indoor Outdoo Sign Lig Electric escalar listed i, NRCC-I	Buildir lowing build ance and sho upe of the per NRCC-PRF-E, Lighting (Un or Lighting §140.a) sal power system for requirement for applicable (PRF-E.)	ing Components Comply ing components are ON ould be documented on rmit application (i.e. co ). conditioned)§140.6 140.7  B Mandatory Meas stems, commissioning, sents are mandatory and	ing Prescriptively ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown  NRCC-LTI-E  NRCC-LTO-E  NRCC -LTS-E  Gures Solar ready, elevator and dishould on the NRCC form
Enve Mec Dom	nit application.  lope (see Table G)  hanical (see Table H)  estic Hot Water (see	Table I)	Suilding	Performance Not Include Performance Not Include Performance Not Include Performance Not Include	covered Process: Commercial Kitchens  Covered Process: Commercial Covered Process: Computer Rooms  Covered Process: Laboratory Exhaust  Covered Process: Laboratory Exhaust		Not Included  Performance  Not Included  Performance	The fol compli the scc on the Indoor Outdoo Sign Lin Electric escalar listed i NRCC-I	Buildir lowing build ance and sho upe of the per NRCC-PRF-E, Lighting (Un or Lighting §140.a) sal power system for requirement for applicable (PRF-E.)	ing Components Comply ing components are ON could be documented on rmit application (i.e. co ). conditioned)§140.6 140.7  B  Mandatory Meas stems, commissioning, sents are mandatory and ii.e. compliance will not stribution \$110.11	ing Prescriptively  ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown  NRCC-LTI-E  NRCC-LTO-E  NRCC -LTS-E  sures solar ready, elevator and d should on the NRCC form be shown on the

	HOME AND	J. 100 (200 CO	, , , , , , , , , , , , , , , , , , , ,	
Project Address:	607 Texas Street Bakersfield 93307	Calculation Date	/Time: 12:36, Mon, Aug 29, 2022	
Input File Name:	Fremont R19 & 20 T24.cibd19x			
C1 COMPLIANCE	RESULTS FOR PERFORMANCE COMPONENTS (Ann	TDV Forest Head (Part / 6a 2 cm)		
CI. COMPLIANCE P	RESULTS FOR PERFORMANCE COMPONENTS (ARI	uai IDV Energy Ose, kbtu/ttyr)		
		COMPLIES		
	Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) <sup>1</sup>
Space Heating		37,41	42.77	-5.
Space Cooling		177.12	161.29	15.
Indoor Fans		185.12	122.22	62.
Heat Rejection			77	
Pumps & Misc.		-	++	
Indoor Lighting  ENERGY STANDARDS COMPLIANCE TOTAL		17.64	17.64	
		40.01	40.01	
		457.30	383.93	73.37 (16.0%
<sup>1</sup> Notes: The numbe	er in parenthesis following the Compliance Margir	in column 4. represents the Percent Bette	er than Standard.	*
C2. RESULTS FOR 'A	ABOVE CODE' QUALIFICATIONS <sup>1</sup>			
☐ This project is purs	uing CalGreen Tier 1	□т	his project is pursuing CalGreen Tier 2	2
		Miscellaneous Energy Component Standard Design (TDV)		Compliance Margin (TDV)1
	Miscendieous cheigy component	Standard Design (104)	Proposed Design (TDV)	compliance Margin (104)
Receptacle	wiscenaneous Energy Component	72.74	72.74	compliance wargin (154)
	iviscentificous Energy component	Electric Court State State (Manual State Court of the	A HOLD THE CONTROL OF CONTROL CONTROL	Compliance Walsin (1997
Receptacle	iviscentineous Energy component	Electric Court State State (Manual State Court of the	A HOLD THE CONTROL OF CONTROL CONTROL	Compliance Walsin (1997
Receptacle Process	iviscentieous Energy component	Electric Court State State (Manual State Court of the	A HOLD THE CONTROL OF CONTROL CONTROL	Compliance Walsin (1997)
Receptacle Process Other Ltg Process Motors	PLUS MISCELLANEOUS COMPONENTS	Electric Court State State (Manual State Court of the	A HOLD THE CONTROL OF CONTROL CONTROL	73.4 (13.8

NRCC-PRF-01-E

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Fremont School Bld R19 & R20

Fremont School Bld R19 & R20

607 Texas Street Bakersfield 93307

Project Name:

roject Name:	Fremont School Bld R	19 & R20	1	RCC-PRF-01-E	Page 3 of 12		
roject Address:	607 Texas Street Bake	rsfield 93307	C	Calculation Date/Time	e: 12:36, Mon, Aug 29, 2	022	
put File Name:	Fremont R19 & 20 T24	1.cibd19x					
3. ENERGY USE SU	JMMARY						
Ene	rgy Component	Standard Design Site (MWh)	Proposed Design S (MWh)	ite Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
S	pace Heating	<b>4</b>	440	\$44.5	35.4	40.5	-5.1
S	pace Cooling	8.0	7.2	0.8	**		**
2	Indoor Fans	11.2	7.7	3.5	<del>5</del>		
Н	eat Rejection	144	<u> </u>	**	<del></del>	944	
P	umps & Misc.		75	ar .		-	
Dom	nestic Hot Water	-#	777		18.8	18.8	0.0
In	ndoor Lighting	2.7	2.7	0.0			>
Co	mpliance Total	21.9	17.6	4.3	54.2	59.3	-5.1
	Receptacle	5.1	5.1	0.0	<b>57</b>	677	- 77
	Process	**	++;	<del>(8)</del> -1	**		
	Other Ltg				24		124
Pr	rocess Motors	175			<b></b>		-
	TOTAL	27.0	22.7	4.3	54.2	59.3	-5.1

D. EXCEPTIONAL CONDITIONS	
The building does not include service water heating. Vo	rify that service water heating is not required and is not included in the design.
E. HERS VERIFICATION	
This Section Does Not Apply	

NRCC-PRF-01-E

81.0

NRCC-PRF-01-E

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Calculation Date/Time: 12:36, Mon, Aug 29, 2022

3 4 5 6 7 8 9 10

AFUE

AFUE

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Heating

Output (kBtuh)

Supply Fan

1.110

1.110

bhp

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Cooling

EER

11.0

11.0

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Fremont School Bld R19 & R20

Fremont R19 & 20 T24.cibd19x

(Packaged3Phase)

(Packaged3Phase)

Design OA

CFM

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

Fremont School Bld R19 & R20

Fremont R19 & 20 T24.cibd19x

607 Texas Street Bakersfield 93307

607 Texas Street Bakersfield 93307

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

Equipment Type Qty Total Heating Supp Heat

CFM Modeling Method

2400 BrakeHorsePower

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

Output (kBtu/h)

Project Name:

Project Address:

Equipment Name

AC3 R19

AC3 R20

<sup>1</sup> Status: N - New, A - Altered, E - Existing

H2. FAN SYSTEMS SUMMARY

Status: N - New, A - Altered, E - Existing

H3. EXHAUST FAN SUMMARY This Section Does Not Apply

This Section Does Not Apply

This Section Does Not Apply

Project Name:

Project Address:

Input File Name:

Name or Item Tag Qty

AC3 R19

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-12092021-6844	Report Generated at: 2022-08-29 12:37:05

Project Name:	Fremont School Bld R19 &	R20	NRCC-PRF-01-E	Page 4 of 12			
Project Address:	607 Texas Street Bakersfiel	d 93307	Calculation Date/Time:	12:36, Mon, Aug 29,	29, 2022		
Input File Name:	Fremont R19 & 20 T24.cibo	i19x					
G1. ENVELOPE GEN	IERAL INFORMATION (condi	tioned spaces only)					
	1	2	3		4		
Opaque Surfaces & Orientation		Total Gross Surface Area (ft²)	Total Fenestration Ar	ea (ft²)	Window to Wall Ratio (%)		
North-Facing <sup>1</sup>		960 ft <sup>2</sup>		576 ft²	60		
	East-Facing <sup>2</sup>		0 ft²	00.00			
	South-Facing <sup>3</sup>	960 ft <sup>2</sup>	320 ft <sup>2</sup>		33.3		
	West-Facing <sup>4</sup> 360 ft <sup>2</sup>			0 ft <sup>2</sup>	00.09		
	Total	2,640 ft <sup>2</sup>		896 ft <sup>2</sup>	33.99		
Roof		1,920 ft <sup>2</sup>		0 ft <sup>2</sup>	00.09		

INDITITIE TUCING IS	onented to within 45 degrees of true north, including 45 00 00 East of north (NE), but excluding 45 00 00 west of north (NW).
<sup>2</sup> East-Facing is o	priented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
3 South-Facing is	oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
4 West-Facing is a	oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).
Wisconstanting Contract	

## G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1-Classroom R19-Trm 1-Classroom R19

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

2-Classroom R20-Trm 2-Classroom R20 VAVNoReheatBox

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

VAVNoReheatBox

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status.
R-30 Roof Attic6	Roof	1920	Wood	30	NA	U-Factor	0.038	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-30 Gypsum Board - 1/2 in.	E
R-11 Wall8	ExteriorWall	2640	Wood	11	NA	U-Factor	0.110	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-11 Gypsum Board - 1/2 in.	E

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-12092021-6844	Report Generated at: 2022-08-29 12:37:05	CA Buil

2400 1600 0.67 1.110 bhp NA

Report Generated at: 2022-08-29 12:37:05

H8. HIGH-RISE RESID This Section Does Not A H9. ZONAL SYSTEM A		SUMMARY 3	T 4	5	6	7	8		0 10	11	12	13
This Section Does Not A	Apply											
HR HIGH-BISE BESID	FINITAL DW/FITIM/2 III	THE ALL HOLLES	TE A CIALII	Allon								
	F117111 B11/F1111-5	NIT AND HOTEL/MOT	FI VENTII	ATION	-		-			-		
2-Classroo	m R20	Education - Classr	ooms (age	s 5-8)	24.00	360		0	960		DCV	
1-Classroo	m R19	Education - Classr	ooms (age	s 5-8)	24.00	360	$\top$	0	960		DCV	
	2000	Ventilation	Function		people	2000 MARK 1850		CFM	(sf)	3	Controls, or	Both
Zone Na	ame				# of	Supply OA	E	xhaust	Conditioned Area		or Occupan	
8'fix_				Mech	nanical Ver	3			) <del>-</del> 1	1	35%	
1		2			3	4	T	5	6		7	
H7. NONRESIDENTIA		path only. For projects using th	e prescriptive	рит, топиисту а	ти ргезспрач	e controis requireme	nes ure de	ocumented on	the Micc-Wich-c.			
AC3 R20	20.	SZVAVAC			NA		Fixed Drybulb Econ requirements are documented on the NRCC-MCH-E.				00017	
					F 172.2.00	- 4		Zone		O2Sensor Vent. Control		
AC3 R19	,	SZVAVAC		1	NA		Zones With CO2Sensor Vo Fixed Drybulb Econo					
System Na	ime	Equipment Type		Window Ir §14	nterlocks p 10.4(n)	per	Other Special Features an			d Controls		
1		2			3				4			
H6. SYSTEM SPECIAL	FEATURES					No.						
Input File Name:	Fremont R19 & 20 T2	4.cibd19x			1							
Innut Eile Name.	607 Texas Street Bake	STOCKER STOCKERS			Ca	alculation Date/1	Time:	12:36, Mo	on, Aug 29, 2022			
Project Address:	A ALMON MAN TO A STATE OF THE S	R19 & R20 cersfield 93307				NRCC-PRF-01-E Page 7 of 12			12			

NA NA

2400

Report Version: NRCC-PRF-01-E-12092021-6844

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Calculation Date/Time: 12:36, Mon, Aug 29, 2022

nput File Name:	Fremont R19 & 2						-			2
33. OPAQUE SURFA	ACE ASSEMBLY SUM	2	3	4	5	6	7	8	9	1
Surface Name		Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status
R-19 Floor Crawlspace14		ExteriorFloor	1920	Wood	19	NA	U-Factor	0.047	Air - Floor - 3 1/2 in. Wood framed floor, 16in. OC, 5.5in., R-19 Plywood - 1/2 in. Carpet - 3/4 in.	E

<sup>1</sup> Status: N - New, A - Altered, E - Existing

Project Name:

Project Address:

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method <sup>1</sup>	Assembly Method	Area ft <sup>2</sup>	Overall U-factor	Overall SHGC	Overall VT	Status
Single Metal Clear	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	896	1.19	0.83	0.77	E

		MetalFraming	A Section of the Company of the Comp			1-0000	A CONTRACT	365676
	Newly installed fenestration shall have a certified N verification. Site-built fenestration values are calcu	마을 하고 있는 이 집에 보면 하는 것들이 되는 것들이 없는 것이 없었다. 이 없는 것이 없는 그 사람들이 되었다. 그런 사람들이 되었다. 그런 것은 것이 없는 것이 없는 것이 없다. 그런 것은 것	사람들이 가득하다 살아보다 아니는 아이들이 아니는 아니는 아이들이 아니는	.6-B. Center of Glass (COG) values are	for the glass-only, de	termined by the	manufacturer	and are show
100	Status: N - New, A - Altered, E - Existing	•	**************************************					

OVERHANG DETAILS					
1	2	3	4	5	6
Fenestration Tag/ID	Orientation	Depth(ft.)	Height from Bottom of Sill to Overhang(ft)	Right Extent(ft)	Left Extent(ft)
Window11	South	12.0	4	10.0	10.0
Window19	South	12.0	4	10.0	10.0

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-12092021-6844	Report Generated at: 2022-08-29 12:37:05

H11. HEAT RECOVI			
Input File Name:	Fremont R19 & 20 T24.cibd19x		
Project Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	12:36, Mon, Aug 29, 2022
Project Name:	Fremont School Bld R19 & R20	NRCC-PRF-01-E	Page 8 of 12

1	2	3	4	5	6
7		Installed Lighting Power	Lighting Control Credits	Additional (Cus	tom) Allowance
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	(Watts)	(Watts)	Area Category Footnotes (Watts)	Tailored Method (Watts
Classroom, Lecture, Training, Ocational Areas	1,920	1,344	0	0	0
Building Totals:	1,920	1,344	0	0	0

<sup>1</sup> See Table 140.6-C	
<sup>2</sup> See NRCC-LTI-01-E for uncond	ditioned spaces
3Lighting information for existi	ing spaces modeled is not included in the table

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Building Level Controls						
	1				2	
Mandatory Demand Response §110.12(c)				Shut-Off Controls §130.1(c)		
Area Level Controls (includes all li	ghting controls installed in conditioned space to meet	mandatory requiremen	nts per §130.1)			
4	5	6	7	8	9	10
			Multi-Level	Shut-Off	Primary	Secondary

Report Version: NRCC-PRF-01-E-12092021-6844

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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance	

Report Version:	NRCC-PRF-01-E-12092021-6844

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Economizer Type (if

FixedDryBulb

FixedDryBulb

Report Generated at: 2022-08-29 12:37:05

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 22013
Plt: 10-05-23

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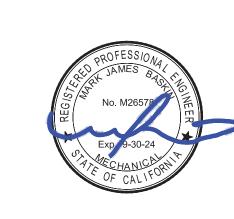
Fremont Magnet Elementary School

607 Texas St. Bakersfield. CA. 93307 Bakersfield City School District

ARCHITECT



CONSULTANT



PROJECT INFO

Project No	566-0018
Date	09.14.22
DSA File No	15-6
DSA No	03-122640

REVISIONS

*	80.00.00	DESCRIPTION

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> MECHANICAL TITLE 24 SHEETS -BUILDING R19 & R20

Project Name:	Fremont School Bld R19 & R20	NRCC-PRF-01-E	Page 10 of 12	
Project Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	12:36, Mon, Aug 29, 2022	
Input File Name:	Fremont R19 & 20 T24.cibd19x			

Report Generated at: 2022-08-29 12:37:05

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCI/

Form/Title

Mechanical NRCI-MCH-01-E - Must be submitted for all buildings

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

	OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections shall be made by Documentation Author to in			
Input File Name:	Fremont R19 & 20 T24.cibd19x			
Project Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	12:36, Mon, Aug 29, 2022	
Project Name:	Fremont School Bld R19 & R20	NRCC-PRF-01-E	Page 11 of 12	

compliance. These doc Provider (ATTCP). For r **Building Component** 

Report Version: NRCC-PRF-01-E-12092021-6844

Mechanical

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

se documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification		Documentation Author Name: Mark Baskin	S N/ I- D	Digitally signed by Mork Daskin, P.E. DN E VIS E-MEaskin@Blazini.NE com. Di-Baskin Machanical Engineers, CNs Mark		
	more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/	Company: Baskin Mechanical Engineers	Signature: Mark Bas	kin, P.E. Dutaty samed by Mark Baskin, P.E. DN-D-IB askin Mechanical Engineers, CN-Main Baskin, P.E. Pusters, I have reviewed the document Dum: 2022 08.29 12:38 52-0700		
nent	Form/Title	Address: 175 Fulton St.	Signature Date: 2022-08-29			
	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD	City/State/Zip: Fresno CA 93721	CEA/ HERS Certification Identificat	ion (if applicable): M26578		
	Acceptance (if applicable) since testing activities overlap	Phone: 5592370376				
	NRCA-MCH-05-A Air Economizer Controls	RESPONSIBLE PERSON'S DECLARATION STATEMENT	- T			
	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	I certify the following under penalty of perjury, under the laws of the State of Cal.	The state of the s			
	NRCA-MCH-07-A Supply Fan Variable Flow Controls	<ol> <li>The information provided on this Certificate of Compliance is true and correct</li> <li>I am eligible under Division 3 of the Business and Professions Code to accept r</li> </ol>	esponsibility for the building design or system design identified or			
	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	<ol><li>The energy features and performance specifications, materials, components, a of Title 24, Part 1 and Part 6 of the California Code of Regulations.</li></ol>	and manufactured devices for the building design or system design	identified on this Certificate of Compliance conform to the requiremen		
	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	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.				
	NRCA-MCH-16-A Supply Air Temperature Reset Controls	5. I will ensure that a completed signed copy of this Certificate of Compliance sha	all be made available with the building permit(s) issued for the bu			
		inspections. I understand that a completed signed copy of this Certificate of Com	npliance is required to be included with the documentation the bu	lder provides to the building owner at occupancy.		
		Responsible Envelope Designer Name:	Signature:			
		Company:		III To		
		Address:	Date Signed:			
		City/State/Zip:				
		Phone:	Title:	License #:		
		Responsible Lighting Designer Name:	let			
		Company:	Signature:			
		Address:	Date Signed:			
		City/State/Zip:	ĺ			
		Phone:	Title:	License #:		
		Responsible Mechanical Designer Name: Mark Baskin, P.E.		Grighelly signed by Mark Baskin, P. E.  — Dh. GUS, E-MBaskin@BaskinWE.com, O-Baskin Mechanical Engineers.		
		Company: Baskin Mechanical Engineers	Signature: Mark Bas	Skin, P.E. Dr.C-US, E-MBaskin@BaskinME.com, O-Baskin Mechanical Engineers. Cre/Mark Baskin P.E. Raison: 1 have reviewed this document Date: 2022-08-29 12:59:10-07:00		
		Address: 5500 Ming Avenue, #251	Date Signed: 08-29-2022			
		City/State/Zip: Bakersfield CA 93309		<u> </u>		
		Phone: (661) 397-2114	Title: P.E.	License #: M26578		

Report Generated at: 2022-08-29 12:37:05

Project Name:

Project Address:

Input File Name:

Fremont School Bld R19 & R20

607 Texas Street Bakersfield 93307

Fremont R19 & 20 T24.cibd19x

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-08-29 12:37:05

NRCC-PRF-01-E Page 12 of 12

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Fremont Magnet Elementary School 607 Texas St. Bakersfield. CA. 93307 Bakersfield City School District

ARCHITECT



CONSULTANT



PROJECT INFO

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*	00.00.08	DESCRIPTION

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> MECHANICAL TITLE 24 SHEETS -BUILDING R19 & R20



Project Name: Fremont School Bld F		ld F		1	NRCC-PRF-01-E	Page 1 of 12						
Proje	ct Address: 6	607 Texas St	reet B	akersfield 933	07		Calculation Date/T	Time: 12:05, Mon, Aug 29, 2022				
Inpu	: File Name: F	remont F T	24.cib	d19x								
A. G	ENERAL INFORMATI	ION										
1	Project Location (city	/)		Bake	sfield	8	Standards Version	n Compliance20		Compliance2019		
2	CA Zip Code	040		9330	7	9	Compliance Softwa	ware (version)		EnergyPro 8.3		
3	Climate Zone			13			Weather File	E		BAKERSFIELD_723840	BAKERSFIELD_723840_CZ2010.epw	
4	Total Conditioned Flo	oor Area in S	cope	3,120	ft <sup>2</sup>	11	Building Orientation (deg) (5		(S) 180 deg			
5	5 Total Unconditioned Floor Area		0 ft <sup>2</sup>		12	Permitted Scope of Work		ExistingAdditionAndA	lteration			
6	Total # of Stories (Ha	# of Stories (Habitable Above Grade)		ade) 1		13	Building Type(s)	3)		Nonresidential		
7	Total # of dwelling un	Total # of dwelling units				14	Gas Type			NaturalGas		
		Ви	ilding	Components	Complying via Performance				Buildir	g Components Comply	ing Prescriptively	
	Instructions: Table B s it application.	shows which	buile	ling compone	nts are included in the performance calcul	ation.	If indicated as not	include	d, the projec	t must show compliant	ce prescriptively if within	
		Ви	ilding	Components	Complying via Performance		Ï		Buildir	g Components Comply	ing Prescriptively	
		Ві	ilding	Components Performance	Complying via Performance				lowing build	ing components are ON	ILY eligible for prescriptive	
Enve	lope (see Table G)	Ви		F-3-25	Complying via Performance  Covered Process: Commercial Kitchens		Not Included	compli the sco	lowing build ance and sho	ing components are ON ould be documented on rmit application (i.e. co	ILY eligible for prescriptive the NRCC form listed if with	
		Ви	⊠	Performance	Covered Process: Commercial Kitchens		Not Included	compli the sco on the	lowing build ance and sho pe of the pe NRCC-PRF-E	ing components are ON ould be documented on rmit application (i.e. co	ILY eligible for prescriptive the NRCC form listed if witi	
	lope (see Table G) nanical (see Table H)	Ви		Performance Not Included	Covered Process: Commercial Kitchens  Covered Process: Computer Rooms	100000	Not Included	complie the sco on the Indoor	lowing build ance and sho pe of the pe NRCC-PRF-E	ing components are ON ould be documented on rmit application (i.e. co ). conditioned)§140.6	ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown	
Mecl	nanical (see Table H)			Performance Not Included	Covered Process: Commercial Kitchens  Covered Process: Computer Rooms		Not Included  Performance  Not Included	complic the sco on the Indoor Outdoo	lowing build ance and sho pe of the pe NRCC-PRF-E, Lighting (Un	ing components are ON puld be documented on rmit application (i.e. co.). conditioned)§140.6	ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown NRCC-LTI-E	
Mecl				Performance Not Included Performance Not Included	Covered Process: Commercial Kitchens  Covered Process: Computer Rooms		Not Included  Performance  Not Included	complic the sco on the Indoor Outdoo	lowing build ance and sho pe of the pe NRCC-PRF-E, Lighting (Un or Lighting §	ing components are ON puld be documented on rmit application (i.e. co.). conditioned)§140.6	ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown  NRCC-LTI-E  NRCC-LTO-E  NRCC -LTS-E	
Mecl Dom	nanical (see Table H) estic Hot Water (see Ta	able I)		Performance Not Included Performance Not Included Performance	Covered Process: Commercial Kitchens  Covered Process: Computer Rooms		Not Included  Performance  Not Included  Performance  Not Included	complie the sco on the Indoor Outdoo Sign Lig Electric escalat	lowing build ance and sho pe of the per NRCC-PRF-E, Lighting (Un or Lighting § thting §140.1 al power sys or requirement applicable (	ing components are ON ould be documented on rmit application (i.e. co ). conditioned)§140.6 140.7 3 Mandatory Meas stems, commissioning, s	ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown  NRCC-LTI-E  NRCC-LTO-E  NRCC -LTS-E  Sures Solar ready, elevator and d should on the NRCC form	
Mecl Dom Light	nanical (see Table H) estic Hot Water (see Ta	able I)		Performance Not Included Performance Not Included Performance Not Included	Covered Process: Commercial Kitchens  Covered Process: Computer Rooms  Covered Process: Laboratory Exhaust		Not Included  Performance  Not Included  Performance  Not Included	complia the sco on the Indoor Outdoo Sign Lig Electric escalat listed if NRCC-F	lowing build ance and sho pe of the per NRCC-PRF-E, Lighting (Un or Lighting §: thing §140.8 al power systom or requirement applicable ( PRF-E.)	ing components are ON ould be documented on rmit application (i.e. co ). conditioned)§140.6 140.7 3 Mandatory Meas stems, commissioning, sents are mandatory and	ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown  NRCC-LTI-E  NRCC-LTO-E  NRCC -LTS-E  Sures Solar ready, elevator and d should on the NRCC form	
Mecl Dom Light Table	nanical (see Table H) estic Hot Water (see Ta	able I) ed, see		Performance Not Included Performance Not Included Performance Not Included	Covered Process: Commercial Kitchens  Covered Process: Computer Rooms  Covered Process: Laboratory Exhaust		Not Included  Performance  Not Included  Performance  Not Included	compliation compliation continue contin	lowing build ance and sho pe of the per NRCC-PRF-E, Lighting (Un or Lighting §: thing §140.8 al power systom or requirement applicable ( PRF-E.)	ing components are ON build be documented on rmit application (i.e. co ). conditioned)§140.6 140.7  Mandatory Meas stems, commissioning, sents are mandatory and i.e. compliance will not	ILY eligible for prescriptive the NRCC form listed if with mpliance will not be shown  NRCC-LTI-E  NRCC-LTO-E  NRCC -LTS-E  Sures solar ready, elevator and d should on the NRCC form be shown on the	

NRCC-PRF-01-E

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672 ft<sup>2</sup>

352 ft<sup>2</sup>

1,024 ft<sup>2</sup>

Calculation Date/Time: 12:05, Mon, Aug 29, 2022

Total Fenestration Area (ft<sup>2</sup>)

Report Generated at: 2022-08-29 12:06:08

Window to Wall Ratio (%)

Description of Assembly Layers

Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in.

Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in.

Wood framed roof, 24in. OC, 3.5in.,

Gypsum Board - 1/2 in.

Stucco - 7/8 in. Vapor permeable felt - 1/8 in.

Wood framed wall, 16in. OC, 3.5in., R-11

Gypsum Board - 1/2 in.

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35.9%

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Fremont School Bld F

Fremont F T24.cibd19x

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

North-Facing<sup>1</sup>

East-Facing<sup>2</sup>

South-Facing<sup>3</sup>

West-Facing<sup>4</sup>

Opaque Surfaces & Orientation

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name

R-30 Roof Attic6

R-11 Wall8

Project Name:

Project Address:

Input File Name:

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

System Name

AC2 F1

AC1 F2

AC1 F3

H7. NONRESIDENTIAL VENTILATION

Zone Name

1-Classroom F1

2-Classroom F2

3-Classroom F3

This Section Does Not Apply

H5. PUMPS

Fremont School Bld F

Fremont F T24.cibd19x

607 Texas Street Bakersfield 93307

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

607 Texas Street Bakersfield 93307

Total Gross Surface Area (ft²)

North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW). <sup>2</sup> East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).

<sup>3</sup> South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE). 4 West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

2856

Wood

Window Interlocks per

§140.4(n)

NA

3 4

24.00 360

CFM

450

360

Mechanical Ventilation

30.00

24.00

Surface Type

ExteriorWall

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

**Equipment Type** 

SZVAVAC

SZVAVAC

SZVAVAC

**Ventilation Function** 

Education - Classrooms (ages 5-8)

Education - Classrooms (ages 5-8)

Education - Classrooms (ages 5-8)

1,248 ft<sup>2</sup>

1,248 ft<sup>2</sup>

2,856 ft<sup>2</sup>

3,120 ft<sup>2</sup>

Framing Cavity Continuous
Type R-Value R-Value

3120 Wood 30 NA U-Factor 0.038

NA

NRCC-PRF-01-E

U-Factor 0.110

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Other Special Features and Controls

Zones With CO2Sensor Vent. Control

Fixed Drybulb Economizer

Zones With CO2Sensor Vent. Control

Fixed Drybulb Economizer Zones With CO2Sensor Vent. Control

Fixed Drybulb Economizer

(sf)

1200

960

960

Calculation Date/Time: 12:05, Mon, Aug 29, 2022

Project Name:

C1. COMPLIANCE R	ESULTS FOR PERFORMANCE COMPONENTS (Ann	nual TDV Energy Use, kBtu/ft ²-yr)		
		COMPLIES		
	Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) <sup>1</sup>
Space Heating		16.37	25.19	-8.82
Space Cooling		140.37	110.35	30.02
Indoor Fans		173.26	83.54	89.72
Heat Rejection			11	77
Pumps & Misc.		-	**	
Domestic Hot Water		15.31	15.31	2
Indoor Lighting		40.01	40.01	7
ENERGY STAN	DARDS COMPLIANCE TOTAL	385.32	274.40	110.92 (28.8%)
<sup>1</sup> Notes: The numbe	r in parenthesis following the Compliance Margin	in column 4. represents the Percent Bett	ter than Standard.	**
C2. RESULTS FOR 'A	BOVE CODE' QUALIFICATIONS <sup>1</sup>			
☐This project is purs	uing CalGreen Tier 1		This project is pursuing CalGreen Tier 2	2
	Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)1
Receptacle		72.74	72.74	**
Process			<u> </u>	9
Other Ltg				4
Process Motors		-	= 55	-
COMPLIANCE TOTAL	PLUS MISCELLANEOUS COMPONENTS	458.06	347.14	110.9 (24.2%)

Project Name:	Fremont School Bld F			NRCC-PRF-01-E	Page 3 of 12	Page 3 of 12			
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nput File Name:	Fremont F T24.cibd19	×							
C3. ENERGY USE SU	JMMARY	11							
Ene	rgy Component	Standard Design Site (MWh)	Proposed Design (MWh)	Site Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)		
S	pace Heating		227	S4-5	24.6	38.0	-13.4		
S	pace Cooling	10.2	7.9	2.3		<b>S</b>			
	Indoor Fans	17.7	8.4	9,3	e:	144	-		
H	leat Rejection	44				244			
Р	umps & Misc.	-	75	8F	-				
Don	nestic Hot Water	THE STATE OF THE S	<del>12</del> ):	-	26.6	26.6	0.0		
Ir	ndoor Lighting	4.5	4.5	0.0		€ <del>48</del>	>		
Co	mpliance Total	32.4	20.8	11.6	51.2	64.6	-13.4		
	Receptacle	8.3	8.3	0.0	157. I				
	Process	>×	<del>**</del> 3	<del>(8)-</del> 4		_++.			
	Other Ltg				-	4.44	144		
P	rocess Motors	325					1.77		
	TOTAL	40.7	29.1	11.6	51.2	64.6	-13.4		

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

D. EXCEPTIONAL CONDITIONS

E. HERS VERIFICATION This Section Does Not Apply

CAMPUS HVAC
SYSTEM UPGRADE

Fremont Magnet Elementary School 607 Texas St. Bakersfield. CA. 93307 Bakersfield City School District

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PROJECT INFO	
Project No	566-0018
Date	09.14.22
DSA File No	15-6
DSA No	03-122640

REVISIONS No Date Item

110	Date	Itom
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		1	T.	
Project Name:	Fremont School Bld F	NRCC-PRF-01-E	Page 5 of 12	
Project Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	12:05, Mon, Aug 29, 2022	

Report Version: NRCC-PRF-01-E-12092021-6844

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status
Slab On Grade14	UndergroundFloor	3120	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	Е

	<sup>1</sup> Status: N - New, A - Altered,	E-	Exist
--	--------------------------------------------	----	-------

Project Name:

Fremont School Bld F

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

1	2	3 4		5	6	7	8	9
enestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method <sup>1</sup>	Assembly Method	Area ft <sup>2</sup>	Overall U-factor	Overall SHGC	Overall VT	Status <sup>2</sup>
Single Metal Clear	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	1024	1.19	0.83	0.77	Е

	MetalFraming						
Newly installed fenestration shall have a certified of verification. Site-built fenestration values are cale	[20] 아이들 아이들 아이들 아이들 때문에 무리하는 사람들은 사람들은 아이들 아이들 때문에 되었다. 그는 사람들은 아이들 아이들 아이들 아이들 때문에 다른 사람들이 되었다. 그 사람들은 사람들이 다른 사람들이 되었다.	프레트 사용 하는 사용을 되면 있다. 그 아이를 하는 아이들은 사람들이 살아 있다면 하는 것이 없는 것이 없는데 그렇게 하는데 하는데 없다.	10.6-B. Center of Glass (COG) values are for	the glass-only, determ	nined by the manu	sfacturer, and are show	vn for ease

<sup>2</sup> Status:	N - New, A - Altered, E - Existing
G6. C	VERHANG DETAILS

1	2	3	4	5	6
Fenestration Tag/ID	Orientation	Depth(ft.)	Height from Bottom of Sill to Overhang(ft)	Right Extent(ft)	Left Extent(ft)
Window11	South	12.0	4	10.0	10.0
Window19	South	12.0	4	10.0	10.0
Window25	South	12.0	4	10.0	10.0

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Project Address:	607 Texas Street Bake	rsfield 93307				Calculation Date	/Time:	12:05, Mon, Aug	29, 2022			
nput File Name:	Fremont F T24.cibd19	×										
19. ZONAL SYSTEM A	ND TERMINAL UNIT	SUMMARY										
1	2	3	4	5	6	7	8	9	10	11	12	13
Surtam ID	Zone Name	Sustana Turas	Otri	Rated Capacity (kBtuh)		A	Airflow (cfm)		Fan			
System ID Zor	zone Name	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSE
1-Classroom F1-Trm	1-Classroom F1	VAVNoReheatBox	1	NA	NA	2100	1400	0.67	0.950	bhp	NA	
2-Classroom F2-Trm	2-Classroom F2	VAVNoReheatBox	1	NA	NA	1800	1200	0.67	0.720	bhp	NA	
	3-Classroom F3	VAVNoReheatBox	1	NA	NA	1800	1200	0.67	0.720	bhp	NA	

K1. INDOOR CONDITIONED L	IGHTING GENERAL INFO						
1	2	3	4	5	6		
				Additional (Cus	Additional (Custom) Allowance		
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Installed Lighting Power (Watts)	(Watts) Area Catego	Area Category Footnotes (Watts)	Tailored Method (Watts		
Classroom, Lecture, Training, Vocational Areas	3,120	2,184	0	0	0		
Building Totals:	3,120	2,184	0	0	0		

	See Table 140.6-C
2	See NRCC-LTI-01-E for unconditioned spaces
31	ighting information for existing spaces modeled is not included in the table

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

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Controls, or Both

DCV

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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-08-29 12:06:08 NRCC-PRF-01-E Fremont School Bld F Page 6 of 12 Project Name: Calculation Date/Time: 12:05, Mon, Aug 29, 2022 Project Address: 607 Texas Street Bakersfield 93307 H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.) 5 6 7 8 9 10 Heating Cooling Equipment Type Qty Total Heating Economizer Type (if Supp Heat **Equipment Name** Output (kBtu/h) Output (kBtuh) AC2 F1 AFUE EER 11.0 FixedDryBulb (Packaged3Phase) 81.0 AC1 F2 AFUE SEER/EER 16.10/12.20 FixedDryBulb (Packaged3Phase) SZVAVAC AC1 F3 AFUE 81.0 SEER/EER 16.10/12.20 FixedDryBulb (Packaged3Phase) <sup>1</sup> Status: N - New, A - Altered, E - Existing H2. FAN SYSTEMS SUMMARY 4 5 6 7 8 9 10 Name or Item Tag CFM AC2 F1 450 0.950 2100 BrakeHorsePower bhp VariableSpeedDriv | NA Status: N - New, A - Altered, E - Existing H3. EXHAUST FAN SUMMARY This Section Does Not Apply H4. Wet System Equipment(boilers, chillers, cooling towers, etc.) This Section Does Not Apply CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-08-29 12:06:08 Project Name: Fremont School Bld F NRCC-PRF-01-E Page 9 of 12 607 Texas Street Bakersfield 93307 Calculation Date/Time: 12:05, Mon, Aug 29, 2022 Project Address: Fremont F T24.cibd19x Input File Name: K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS **Building Level Controls** Mandatory Demand Response §110.12(c) Shut-Off Controls §130.1(c) Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1) Shut-Off Primary Secondary Multi-Level Area Controls Controls Controls Daylighting Daylighting 130.1(b) 130.1(c) 130.1(d) 140.5(d) Area Description Area Category Primary Function Area

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175 Fulton Street Fresno, CA 93721 Tel: (559) 237-0376 Job: 22013



5

Supply OA Exhaust Conditioned Area

CFM

0

0

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Project Address:	607 Texas Street Bakersfield 93307	Calculation Date/Time:	12:05, Mon, Aug 29, 2022	
Input File Name:	Fremont F T24.cibd19x			

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Table Inst compliant https://w Building

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oliance. These doc	ections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for cuments bust be retained and provided to the building inspector during construction and can be found online at: a.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	Table Instructions: Selections shall be made by Documentation Author to indicate which Certification compliance. These documents must be provided to the building inspector during construction and Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards,		
ding Component	Form/Title	<b>Building Component</b>	Form/Ti	
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings		NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note Acceptance (if applicable) since testing activities overlap	
			NRCA-MCH-05-A Air Economizer Controls	
			NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted fo	

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compliance. These do	lections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for becuments must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/
<b>Building Component</b>	Form/Title
	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-05-A Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints
	NRCA-MCH-07-A Supply Fan Variable Flow Controls
	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance
	NRCA-MCH-16-A Supply Air Temperature Reset Controls

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Fremont School Bld F

Fremont F T24.cibd19x

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

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Input File Name:

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Calculation Date/Time: 12:05, Mon, Aug 29, 2022

Documentation Author Name: Mark Baskin	14 15	Signature: Mark Baskin, P.E. ON G-US E-Markin Baskin, P.E. ON Horis Baskin, P.E. ON Horis Baskin, P.E. ON Horis Baskin Baskin, P.E. ON Horis BASKIN, P.E. DAN HORIS BASKIN, P.E	
Company: Baskin Mechanical Engineers	Signature: Mark Ba		
Address: 175 Fulton St.	Signature Date: 2022-08-29	Signature Date: 2022-08-29	
City/State/Zip: Fresno CA 93721	CEA/ HERS Certification Identif	CEA/ HERS Certification Identification (if applicable): M26578	
Phone: 5592370376			
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of Co	alifornia:		
3. The energy features and performance specifications, materials, components, 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 Cert plans and specifications submitted to the enforcement agency for approval witl 5. I will ensure that a completed signed copy of this Certificate of Compliance si inspections. I understand that a completed signed copy of this Certificate of Co.	tificate of Compliance are consistent with the information provi h this building permit application. hall be made available with the building permit(s) issued for the	ded on other applicable compliance documents, worksheets, calculations, building, and made available to the enforcement agency for all applicable	
Responsible Envelope Designer Name:	Circot	Signature:	
Company:	Signature:		
Address:	Date Signed:	Date Signed:	
City/State/Zip:	Î		
TOTAL MATERIAL CHARACTURE CO.	Title:	License #:	
Phone:	Anthere	License #.	
	Signature	License #.	
Responsible Lighting Designer Name:	Signature:	License #.	
Phone: Responsible Lighting Designer Name: Company: Address:	Signature:  Date Signed:	License #.	
Responsible Lighting Designer Name: Company: Address:		License #.	
Responsible Lighting Designer Name: Company: Address: City/State/Zip:		License #:	
Responsible Lighting Designer Name: Company:	Date Signed: Title:	License #:	
Responsible Lighting Designer Name: Company: Address: City/State/Zip: Phone:	Date Signed: Title:	License #:	
Responsible Lighting Designer Name: Company: Address: City/State/Zip: Phone: Responsible Mechanical Designer Name: Mark Baskin, P.E.	Date Signed: Title:	License #:  Digitaly squad by Mark Backer, P.E.  Dir C-U.S. E-MBacking Beskinks. com, Q-Backin Mechanical Engineers.  On Seculis. P.E.  Readen: 1 Davis reviewed this document	
Responsible Lighting Designer Name:  Company:  Address:  City/State/Zip:  Phone:  Responsible Mechanical Designer Name: Mark Baskin, P.E.  Company: Baskin Mechanical Engineers	Date Signed:  Title:  Signature: Mark Ba	License #:  Digitally soned by Mark Baskin, P.E.  DN G-US. E. MBaskin @ Baskin No. Com. QBaskin Mechanical Engineers. P. E. Phasis restricted this document Order: 2002 0.08 2-7. 1209.20-07.00	

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Fremont School Bld F

Fremont F T24.cibd19x

607 Texas Street Bakersfield 93307

Project Name:

Project Address:

BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 22013
Plt: 10-05-23

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122640 INC: REVIEWED FOR SS 🗸 FLS 🗸 ACS 🗸



3434 Truxtun Avenue . Suite 240 Bakersfield . California . 93301 tel|661.327.1690 fax|661.327.7204 web|www.aparchitects.net|

Fremont Magnet Elementary School 607 Texas St. Bakersfield. CA. 93307 Bakersfield City School District

ARCHITECT



CONSULTANT



PROJECT INFO

Date		09.14.22			
DSA File No	)	15-6			
DSA No			03-122640		
REVISIONS					
No	Date	Item			
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